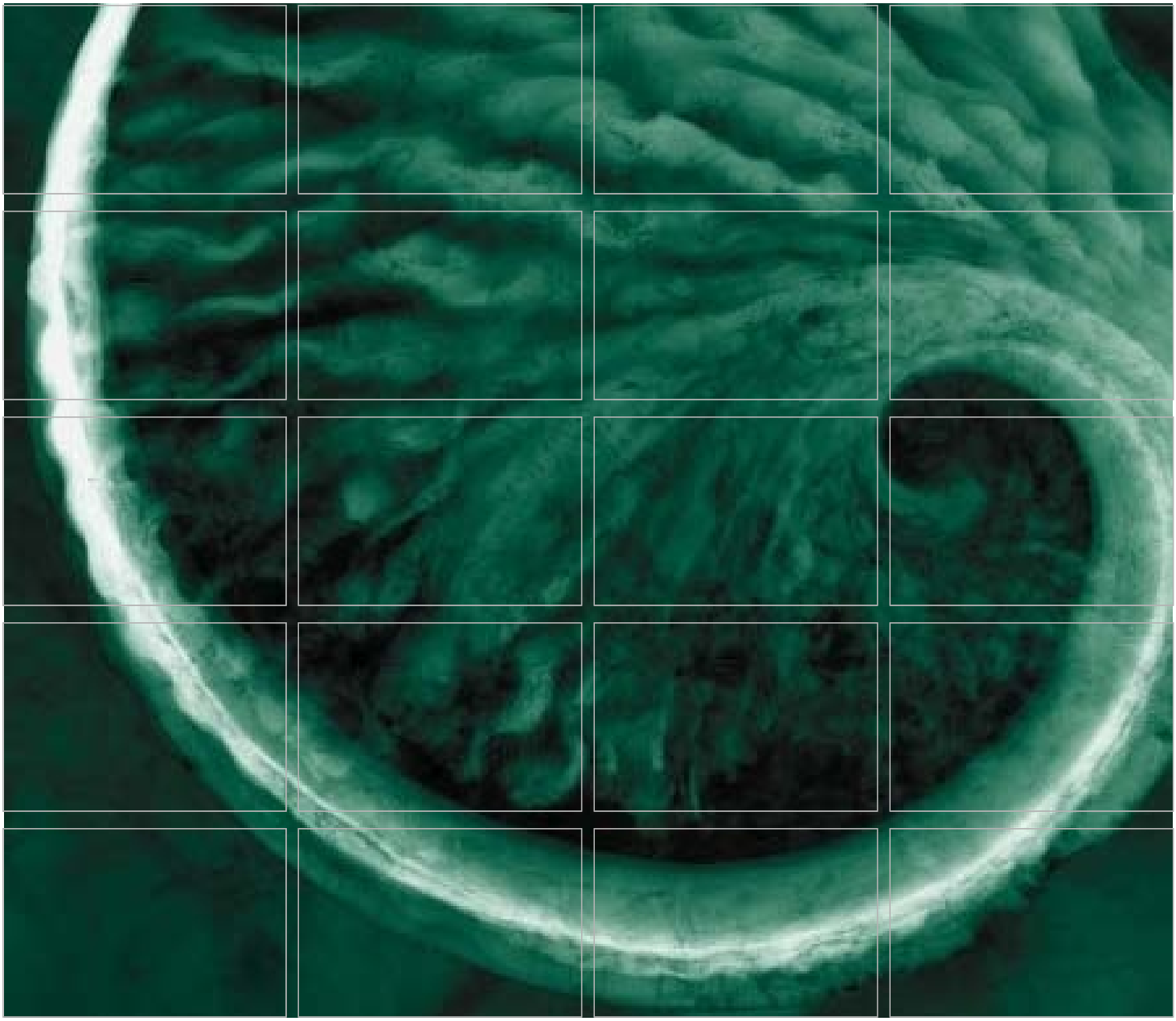

# Draft
# Groundwater Monitoring Report – March 2013

**52nd Street Superfund Site Operable Unit 3**
**Phoenix, Arizona**

August 2013

**Prepared for**:
Motorola 52nd Street
Superfund Site
Operable Unit 3
Working Group

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Motorola 52nd Street
Superfund Site Operable Unit 3
Working Group

# Draft
# Groundwater Monitoring Report – March 2013

52nd Street Superfund Site Operable Unit 3
Phoenix, Arizona

August 2013

Project No. 96498


Jason Hilker, R.G. (AZ 50995)
*Project Geologist*

Belinda Butler-Veytia
*Project Manager*

Anthony C. Ward, P.G.
*Partner-in-Charge*

**Environmental Resources Management**
7272 East Indian School Road, Suite 100
Scottsdale, Arizona 85251
T: 480-998-2401
F: 480-998-2106

*www.erm.com*

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*LIST OF ACRONYMS AND ABBREVIATIONS*

| | |
|---|---|
| µg/L | Microgram(s) per liter |
| ADEQ | Arizona Department of Environmental Quality |
| AOC | Administrative Order on Consent |
| AMSL | Above mean sea level |
| AWQS | Arizona Aquifer Water Quality Standard |
| bgs | Below ground surface |
| CRA | Conestoga-Rovers & Associates |
| D | Deep |
| DCE | dichloroethene |
| ERM | ERM West, Inc. |
| FS | Feasibility Study |
| ft | Feet |
| Freescale | Freescale Semiconductor, Inc. |
| Honeywell | Honeywell International, Inc. |
| J | Reported result is estimated |
| LCSD | Laboratory control sample duplicate |
| L-SRG | Lower Salt River Gravels Sub-unit |
| max | Maximum |
| min | Minimum |
| MS | Matrix spike |
| MSD | Matrix spike duplicate |
| OU | Operable Unit |
| PARCC | Precision, accuracy, representativeness, comparability, and completeness |
| PCE | Tetrachloroethene |
| QAPP | Quality assurance project plan |
| QC | Quality control |
| RI | Remedial investigation |
| RPD | Relative percent difference |
| S | Shallow |
| Shaw | Shaw Environmental, Inc. |
| Site | Motorola 52nd Street Superfund Site Operable Unit 3 |
| SOW | Statement of work |
| TCE | Trichloroethene |
| U | Analyte not detected, estimated |
| US EPA | United States Environmental Protection Agency |

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| | |
|---|---|
| U-SRG | Upper Salt River Gravels Sub-unit |
| VOC | Volatile organic compound |
| Work Plan | *Final OU3 Phase III Groundwater RI/FS* |

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## 1.0 INTRODUCTION

This report presents the results of the March 2013 semiannual groundwater-monitoring event at the Motorola 52nd Street Superfund Site, Operable Unit (OU) 3 (Site), in Phoenix, Arizona.

## 1.1 MOTOROLA 52ND STREET SUPERFUND SITE HISTORY

The OU1, OU2, and OU3 of the Motorola 52nd Street Superfund Site covers approximately 7,800 acres and consists of three adjoining groundwater OUs described as follows:

- OU1 is the easternmost OU and contains the former Motorola 52nd Street semiconductor plant. The boundaries of OU1 are 52nd Street to the east, Palm Lane to the north, Roosevelt Street to the south, and 46th Street to the west.
- OU2 lies west of OU1 and contains the OU2 Groundwater Extraction System and several OU2 potentially responsible party facilities, including the Honeywell International, Inc. (Honeywell) 34th Street facility and the former Joray-Kachina facility. The approximate boundaries of OU2 are McDowell Street to the north, 46th Street to the east, Buckeye Road to the south, and 20th Street to the west. The OU2 Groundwater Extraction System is located along 20th Street.
- OU3 lies west of OU2. The boundaries of OU3 are primarily McDowell Road to the north, 20th Street to the east, Buckeye Road to the south, and 7th Avenue to the west.

Figure 1 provides a location map of the OUs at the Site. For groundwater, the Arizona Department of Environmental Quality (ADEQ) is the lead regulatory agency for OU1 and OU2, and the United States Environmental Protection Agency (US EPA) is the lead regulatory agency for OU3.

On 4 October 1989, the US EPA placed the Motorola 52nd Street Superfund Site on the National Priorities List. Honeywell International, Inc. (Motorola) (now Freescale Semiconductor, Inc. [Freescale]) investigated their facility and, in 1992, fully implemented the OU1 groundwater extraction and treatment plant under ADEQ oversight. In 1991, investigation activities in OU2, under ADEQ oversight, resulted in the selection of an interim remedy utilizing a groundwater extraction and treatment system to contain a groundwater plume of chlorinated solvents (at approximately 20th Street). Freescale and Honeywell (the Companies)

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constructed and initially operated the OU2 treatment system under US EPA oversight beginning in 2001. The Companies negotiated an Administrative Order on Consent (AOC) with ADEQ to continue to operate and maintain the system under ADEQ oversight.

In 1983, a groundwater sample collected from the Eastlake Park irrigation well located in OU3 near 16th Street and Jefferson Street contained chlorinated volatile organic compounds (VOCs). The OU2 Remedial Investigation (RI) Report, completed by Motorola in 1992, indicated that the chemicals migrating from the Motorola facility extended into the East Washington Project Area, which prompted ADEQ and the US EPA to create the OU3 Study Area (now referred to as OU3) to address potential co-mingled VOC groundwater impacts between 20th Street and 7th Avenue.

## *1.2 OU3 HYDROGEOLOGY*

Groundwater at OU3 is found primarily within the unconsolidated regional Upper Alluvial Aquifer. Groundwater within the Upper Alluvial Aquifer flows toward the west and southwest (Shaw Environmental, Inc. 2009). Two hydrostratigraphic zones in the alluvium —the Salt River Gravels Sub-unit and the Basin Fill Sub-unit—were designated in OU3 following agreement with ADEQ and the US EPA during a Technical Working Group meeting in January 2011. This hydrostratigraphic nomenclature is consistent with OU1 and OU2 and the overall Motorola 52nd Street Superfund Site. The Salt River Gravels Sub-unit in OU3 is further divided into the Upper Salt River Gravels (U-SRG) and Lower Salt River Gravels (L-SRG). Lithologic descriptions of these zones are provided in Table 1.

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*Table 1 OU3 Hydrostratigraphic Zones*

| Aquifer Unit | Revised Hydrostratigraphic Zone | Description |
|---|---|---|
| | Upper Salt River Gravels Sub-unit (U-SRG) | Coarse-grained Salt River Gravels, including minor amounts of interbedded and laterally discontinuous fine-grained deposits. |
| Upper Alluvial Aquifer | Lower Salt River Gravels Sub-unit (L-SRG) | Coarse-grained deposits dominated by gravel similar to Salt River Gravels. Base of zone commonly includes a fine-grained layer. |
| Middle Alluvial Aquifer | Basin Fill Sub-unit | Basin Fill deposits consisting of an upper fine-grained layer with an underlying interval of interbedded fines and sand. |

## 1.3 PREVIOUS SITE INVESTIGATIONS

Three phases of groundwater investigation have been conducted in the area known as OU3. Phase I and II were conducted by the US EPA pursuant to the Arizona Water Quality Assurance Revolving Fund program. The scopes of work for the Phase I and II field programs were presented in the following documents:

- *Final Groundwater Investigation Work Plan* (IT Corporation 2001).
- *Work Plan Supplement to the Final Groundwater Investigation Work Plan for Proposed Phase II Wells* (IT Corporation 2003).

Phase I included the construction of 15 groundwater monitoring wells between February and March 2002, and Phase II included construction of 13 groundwater monitoring wells between May and July 2003. Phase II also included the abandonment and replacement of three Phase I wells (OU3-5S, OU3-5M, and OU3-5D).

The OU3 Working Group—comprised of Honeywell and Arizona Public Service Company, a subsidiary of Pinnacle West—entered into an AOC with the US EPA on 23 September 2009 (US EPA 2009). The Statement of Work (SOW) for the OU3 Working Group was included as Appendix A of the AOC. Beginning in March 2010, the OU3 Working Group assumed responsibility for the OU3 groundwater-monitoring program, in accordance with the AOC and SOW. The OU3 monitoring program consists of semiannual sampling events performed in conjunction with the Statement of Work for OU3 RI/Feasibility Study (FS) (OU3 Working Group 2009).

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The scope of the Phase III RI/FS field program was presented in the *Final OU3 Phase III Groundwater RI/FS Work Plan (*Work Plan*)* approved by the US EPA on 15 July 2010 (ERM West, Inc. [ERM] 2010a). Phase III was initiated by the OU3 Working Group in 2010. Seven groundwater monitoring wells (OU3-16S, OU3-10S, OU3-17S, OU3-20S, OU3-16M, OU3-19M, and OU3-20M) were installed within the Salt River Gravels Sub-unit. Wells OU3-16S, OU3-10S, OU3-17S, and OU3-20S were installed in the U-SRG to provide data on the eastern, western, and southern extent of the plume. Wells OU3-16M, OU3-19M, and OU3-20M were installed in the L-SRG to provide data on the southern and western edges of the plume and to better define the central and eastern core of the plume. Further information regarding the installation of these wells is included in the *Final Groundwater Monitoring Well Installation Report*, submitted June 2011 (ERM 2011a).

In accordance with the SOW, four quarters of Phase III well sampling were conducted separately from semiannual monitoring of the Phase I and II wells. Monitoring results for the Phase III wells were reported through submission of data reports and were not presented in the semiannual groundwater monitoring reports. In September 2011, the four quarters of monitoring for the Phase III wells were completed, and these wells were incorporated into the OU3 semiannual monitoring program beginning in March 2012.

Figure 2 provides locations for wells included in the OU3 groundwater-monitoring program. Table 2 provides the construction details for OU3 monitoring wells. Three monitoring wells (OU3-21S, OU3-22S, and OU3-22M) were installed during March 2013. Well details are included in *Draft New Groundwater Well Installation Report (*ERM 2013).

## 1.4 PURPOSE AND SCOPE

The purpose of this groundwater-monitoring program is to evaluate VOC trends within OU3 groundwater. The groundwater-monitoring program provides data to support the OU3 RI/FS. The OU3 groundwater-monitoring program is coordinated with other investigations in the region and includes the following activities:

- Semiannual measurement of groundwater levels in wells included in the OU3 groundwater monitoring program;
- Semiannual collection of groundwater samples for laboratory analysis; and

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- Evaluation of hydraulic and water quality data for OU3 groundwater.

Groundwater monitoring activities performed during the March 2013 event were in accordance with the methodology and procedures in the Work Plan and the *Technical Memorandum No.1 – Proposed changes to Appendix A- Statement of Work for OU3 Remedial Investigation/Feasibility Study Motorola 52nd Street Superfund Site, Operable Unit 3; Proposed Groundwater Monitoring Well OU3-17S and Updated Schedule* (ERM 2011b).

## *1.5 REPORT ORGANIZATION*

Section 1.0 identifies the Site background information and the purpose and scope of the groundwater-monitoring program. Section 2.0 describes the groundwater-monitoring program and the field and analytical methods incorporated into the program. Section 3.0 describes the March 2013 groundwater monitoring results. Section 4.0 contains the references cited within this report.

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## 2.0 GROUNDWATER MONITORING ACTIVITIES

The March 2013 semiannual groundwater monitoring event was conducted between 4 and 15 March 2013. Table 2 provides the list of wells proposed to be monitored during this event, and well construction details for each of the wells. Exceptions to this list for the March 2013 event are explained in Section 2.6.

The following sections briefly describe the procedures followed and protocols used by ERM during this groundwater-monitoring event. The groundwater-monitoring event followed the requirements set forth in the Work Plan to ensure that the data collected were of consistent quality. This semiannual monitoring event included the following activities:

- Groundwater level measurements;
- Groundwater purging and sampling;
- Sample analysis;
- Decontamination; and
- Investigation-derived waste management.

A summary of the methodology used to conduct each of these activities is provided in the following subsections. Detailed descriptions of procedures and methodology used during this sampling event are available in the Field Sampling Plan (ERM. 2010b) and Quality Assurance Project Plan (QAPP) (ERM. 2010c).

### 2.1 GROUNDWATER LEVEL MEASUREMENTS

Prior to groundwater sampling, static groundwater levels and well depths were measured in each monitoring well included in the OU3 groundwater monitoring program. Groundwater elevations are provided in Table 3. On 4 and 5 March 2013, all but two water levels (from monitoring wells SC-MW-1D and OU3-13M) were measured to the nearest 0.01-foot utilizing an electric water level indicator capable of producing measurements accurate to within ± 0.01 foot. A water level measurement from monitoring well SC-MW-1D could not be collected during the monitoring event because the site was secured by a locked fence. The water level measurement from monitoring well OU3-13M was delayed until 14 March 2013 due to well accessibility issues. On 4 March 2013, water levels were collected from Westbay® monitoring well EW-13 using specialized Westbay® gauging and sampling equipment.

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Groundwater elevation contour maps for the U-SRG, L-SRG, and Basin Fill Sub-unit (presented as Figures 3, 4, and 5, respectively) were generated using the measurements collected on 4, 5 and 14 March 2013.

## 2.2 *GROUNDWATER PURGING AND SAMPLE COLLECTION*

The groundwater monitoring wells were purged using an electric submersible pump or a disposable bailer. At the start of purging, and at intervals during purging, field parameters were collected including pH, temperature, conductivity, dissolved oxygen, and oxidation-reduction potential. The field parameters were measured between 6 and 15 March 2013 using a Horiba U-52 multi-meter attached to a flow-through cell. Field parameters and qualitative observations including odor, clarity, and/or color were recorded on groundwater sampling field data collection forms provided in Appendix A.

Purging was considered complete after a minimum of three saturated well volumes were removed and after the following field parameters had stabilized for three consecutive readings:

- pH within ± 0.1 unit;
- Temperature within ± 1.0 degree; and
- Conductivity within 10 percent.

After the purge was completed, groundwater samples were collected from the pump outlets or with a disposable bailer and transferred into laboratory-provided containers.

A sample label containing a unique identification number was attached to each sample container and the sample was recorded on a chain-of-custody form. Samples analyzed for VOCs were collected in 40-milliliter vials pre-preserved with hydrochloric acid. Samples analyzed for 1,4-dioxane were collected in 1-liter amber glass bottles. Sample containers were provided by TestAmerica Laboratories, Inc. based in Phoenix, Arizona (Arizona Department of Health Services No. AZ0728). Samples were immediately stored in a cooler containing wet ice and a trip blank sample and submitted under chain-of-custody to TestAmerica Laboratories, Inc. for analysis.

ERM field personnel were responsible for proper preservation, packaging, labeling, documentation, storage, handling, and transportation of groundwater samples collected during the March 2013 sampling event. Groundwater samples were hand-delivered daily to TestAmerica

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Laboratories, Inc.'s Phoenix, Arizona facility, under standard chain-of-custody procedures. Samples were received by TestAmerica Laboratories, Inc., in accordance with the requirements of Section 3.3.3 of the QAPP (ERM 2010c).

## 2.3 *SAMPLE ANALYSIS*

Groundwater samples collected during the March 2013 event were analyzed in accordance with the following methods:

- VOCs by US EPA Method 8260B; and
- 1,4-Dioxane by US EPA Method 8270C Modified.

The complete analytical results for the March 2013 sampling event are provided in Appendix B.

## 2.4 *DECONTAMINATION*

Purging and sampling equipment were decontaminated before use at each groundwater monitoring well in accordance with Appendix A, Section 5.11.3 of the Work Plan (ERM 2010a). Submersible pumps were utilized for purging and sample collection, except as described in Section 2.6.

Submersible pumps and galvanized steel drop-pipe or flexible tubing were decontaminated using the following procedures:

- The exterior of the pump or other non-dedicated equipment was placed on a piece of Visqueen™ film and then washed with a power washer. The Visqueen™ was folded so that it had edges to contain the decontamination water. The water contained within the folded Visqueen™ was then poured into the portable holding tank for later discharge to the City of Phoenix sanitary sewer.
- The exterior of the pump was washed with Alconox™ solution. Alconox™ solution was also sprayed into the pump until extruded from the intake port. Piping or tubing used, such as a reel pump, had Alconox™ solution sprayed on both the exterior and interior of the piping/tubing.
- The equipment exterior was then washed with a power washer. Piping was washed both inside and out by circulating water though the tubing, via the discharge manifold, so that at least 5 gallons of tap water flowed through the tubing and were extruded from the pump.

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- The submersible pump was then submerged in a container filled with distilled water and operated until approximately 5 gallons had been circulated through and extruded from the pump.
- Field monitoring instrumentation and water level meters were decontaminated before use at each well. Non-disposable equipment was decontaminated by spraying the surfaces with Alconox™ solution, rinsing with distilled water, and air-drying.

## 2.5 *INVESTIGATION-DERIVED WASTE MANAGEMENT*

Purge and decontamination water was contained in a portable tank and the water was discharged directly to the sanitary sewer under the permits issued by the City of Phoenix on 6 February 2013 (Appendix C). Miscellaneous waste—such as used personal protective equipment, disposable sampling equipment, polyethylene sheeting, and general trash—was disposed of as municipal solid waste.

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## 3.0 MARCH 2013 GROUNDWATER MONITORING RESULTS

During the March 2013 semiannual groundwater-monitoring event, groundwater levels were measured in 45 monitoring wells and groundwater samples were collected from 40 monitoring wells and the 4 ports of Westbay® multi-port well EW-13. Of the monitoring wells and ports that were sampled, 15 were screened in the U-SRG; 19 were screened in the L-SRG; and 10 were screened in the Basin Fill Sub-unit.

This OU3 March 2013 semiannual groundwater monitoring report also contains non-OU3 groundwater analytical data transmitted to ERM by Conestoga-Rovers & Associates (CRA) (CRA 2013) and CH2M HILL (CH2M HILL 2013).

Deviations from the Work Plan included the following for the March 2013 sampling event:

- The groundwater elevation for monitoring well OU3-13M was collected on 14 March 2013. This well was unable to be gauged earlier due to access issues.
- Groundwater monitoring well SC-MW-1D is located behind a locked gate and was unable to be gauged or sampled during the March 2013 event due to access issues.
- Monitoring well EWOU3-10S-R was gauged but could not be sampled due to insufficient groundwater in the well.

### 3.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater elevation information collected from the OU3 monitoring wells during this monitoring event are provided in Table 3 (attached). Figures 3, 4, and 5 present the March 2013 groundwater elevation contours for the U-SRG, L-SRG, and the Basin Fill Sub-unit wells, respectively. Groundwater elevation data from wells that were not sampled as part of the OU3 monitoring program (i.e., non-OU3 program wells) were used in the interpretations presented in these figures.

Groundwater elevation data for wells OU3-13D, EW-22D, NW-4D, NW-6D and NW-7D were not used for the Basin Fill Sub-unit potentiometric map (Figure 5). Data from well OU3-13D have historically been anomalous (Shaw 2010) and therefore difficult to integrate into the Site-wide potentiometric interpretation. The water level measurement from well EW-22D was not used because it is screened from 407 to 427 feet below ground surface (bgs), which is more than 120 feet below the other

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OU3 Basin Fill Sub-unit monitoring wells (Shaw 2010). The OU2 groundwater extraction system was offline between January 2013 and March 2013 for annual system maintenance, which contributed to the inconsistent groundwater elevation changes in monitoring wells NW-4D, NW-6D and NW-7D on Figure 5.

Overall, groundwater elevations were an average of 0.36 foot higher in March 2013 than in September 2012. Approximately half of the groundwater monitoring well elevation data showed either a decrease or increase in elevation. The groundwater elevations increased relative to September 2012 data in 22 of 45 OU3 groundwater monitoring wells gauged during the March 2013 monitoring event, with an average increase of 2.22 feet. Groundwater elevations decreased relative to September 2012 data in 23 of 45 OU3 groundwater monitoring wells gauged during the March 2013 monitoring event, with an average decrease of 1.41 feet. Table 4 provides groundwater levels by hydrostratigraphic zone. Table D-1 in Appendix D contains a tabulation of historical water levels in the OU3 groundwater monitoring wells.

***Table 4 Groundwater Level Summary***

| Hydrostratigraphic Zone | Range of Depth-to-Groundwater (ft bgs, min/max) | Range of Groundwater Elevations (ft amsl, min/max) | Maximum Groundwater Change* (ft) |
|---|---|---|---|
| Upper Salt River Gravels Sub-unit | 88.98 (OU3-17S)/ 99.48 (EWOU3-10S-R) | 982.14 (EWOU3-10S-R) / 1005.07 (OU3-20S) | +3.25 (OU3-10S) |
| Lower Salt River Gravels Sub-unit | 90.40 (OU3-11M2)/ 98.83 (OU3-16M) | 982.86 (OU3-10M) / 1,004.90 (OU3-20M) | +3.23 (OU3-10M) |
| Basin Fill Sub-unit | 82.41 (EW-19D)/ 96.87 (OU3-14D) | 988.59 (OU3-8D) / 1,007.80 (OU3-1D) | +12.20 (OU3-1D) |

Notes: * = Since previous semiannual groundwater monitoring event. Positive value indicates a groundwater level rise.

The estimated groundwater gradients west of 16th Street are presented in Table 5, along with the wells used to determine the groundwater gradient. These groundwater gradients were based on groundwater elevations from this gauging event and calculated using the 3-point method. Groundwater gradients were not calculated for the area east of 16th Street due to the depression of the potentiometric surface caused by the operation of the OU2 groundwater extraction system.

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*Table 5 Estimated Groundwater Gradients*

| Hydrostratigraphic Zone | Gradient | Wells Used To Calculate Gradient |
|---|---|---|
| Upper Salt River Gravels Sub-unit | 0.0019 ft/ft west-southwest | OU3-10S, OU3-4S, and EW-19S |
| Lower Salt River Gravels Sub-unit | 0.0018 ft/ft west -southwest | OU3-10M, OU3-14M, and OU3-12M |
| Basin Fill Sub-unit | 0.0013 ft/ft west | OU3-8D, OU3-6D, and OU3-14D |

## 3.2 *ANALYTICAL RESULTS SUMMARY*

Fifty-two samples were collected from 44 wells and ports during the March 2013 groundwater-monitoring event. A summary of detected analytes is provided in Table 6. Figures 6, 7, and 8 present TCE data for the U-SRG, L-SRG, and Basin Fill Sub-unit wells, respectively. TCE concentration data from several wells sampled as part of the OU2 monitoring program were also used in these figures. The TCE data from select non-OU3 program wells were used to illustrate TCE distribution along the OU2/OU3 boundary. The non-OU3 program wells that were used to develop Figures 3 through 8 are listed in Table 7.

The following analytes were detected above their respective Arizona Aquifer Water Quality Standards (AWQS) during the March 2013 groundwater-monitoring event:

- TCE was detected above the AWQS of 5 micrograms per liter (µg/L) in samples from 14 wells (EW-19S, EW-20, OU3-2M, OU3-5M2, OU3-5MR, OU3-5SR, OU3-8S, OU3-8M2, OU3-10M, OU3-10M2, OU3-13M, OU3-16S, OU3-16M, and OU3-19M). Concentrations above the AWQS ranged from 5.6 (OU3-8S) to 92 µg/L (OU3-16M). During the September 2012 monitoring event, 16 wells exceeded the AWQS (ERM 2012). The average concentration (above 5 µg/L) was approximately 3 µg/L higher in March 2013 than in September 2012.
- None of the OU3 wells exceeded the AWQS of 5 µg/L for tetrachloroethene (PCE), which is consistent with data from September 2012.
- 1,1-dichloroethene (DCE) was detected above the AWQS of 7 µg/L in samples from four wells (OU3-10M2, OU3-16M, OU3-19M, OU3-5M2). Concentrations above the AWQS ranged from 9 (OU3-5M2) to 10 µg/L (OU3-16M and OU3-19M). During the September 2012 monitoring event, the 1,1-DCE concentration in well OU3-19M exceeded the AWQS at a concentration of 10 µg/L (ERM 2012).

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- None of the OU3 wells exceeded the AWQS of 70 µg/L for cis-1,2-dichloroethene DCE, which is consistent with data from September 2012.

Regulatory standards have not been promulgated for 1,4-dioxane, although the US EPA has listed the compound as a probable human carcinogen and has a Drinking Water Advisory Level of 3.0 µg/L. ADEQ has not promulgated a 1,4-dioxane groundwater standard.

Of the 44 wells and ports sampled during the March 2013 groundwater monitoring event, 1,4-dioxane was detected in 11 of them (monitoring wells EW-19S, EW-20, OU3-10M, OU3-10M2, OU3-16M, OU3-16S, OU3-19M, OU3-2M, OU3-5M2, OU3-5MR, OU3-5SR), which is three less monitoring wells than September 2012. The 1,4-dioxane detected results ranged from 1.2 J (estimated value) to 3 µg/L. The highest concentration, 3.0 µg/L, was measured in monitoring wells OU3-16M and OU3-19M.

Concentrations of TCE, PCE, 1,1-DCE, and cis-1,2-DCE generally decreased between September 2012 and March 2013. Appendix E provides time-concentration graphs for TCE, PCE, 1,1-DCE, and cis-1,2-DCE versus groundwater elevation for OU3 program monitoring wells. Available historical data from the non-OU3 (Shaw 2010; CRA 2012) and OU3 (Shaw 2010) program wells were used to construct the graphs.

The time-concentration graphs indicate that concentrations of TCE, PCE, 1,1-DCE, and cis-1,2-DCE have decreased Site-wide since the OU3 groundwater-monitoring program began in June 2002. Over this timeframe, 16 monitoring wells have shown decreases in TCE of one order of magnitude or more. These wells include EW-19S, EWOU3-10S-R, EW-20, EW-21, EW-22S, OU3-1M, OU3-2M, OU3-6M, OU3-10M, OU3-10M2, OU3-12M, OU3-12D, OU3-13M, OU3-13D, OU3-14M, and OU3-14D. Wells EWOU3-10S-R, OU3-10M, and OU3-10M2 are located near the southern boundary of the plume, near Washington Street and 1st Street. The other wells are located within the southern, central, and northern portions of the plume, between 5th Street and 16th Street (see Figures 6, 7, and 8).

## 3.3 *QUALITY ASSURANCE/QUALITY CONTROL RESULTS SUMMARY*

Field quality control (QC) samples were collected or prepared to evaluate if sampling practices affected analytical results. Field QC samples included field duplicates, trip blanks, field blanks, and equipment rinsate samples. The evaluation of a performance-evaluation sample collection

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was discontinued following the March 2012 groundwater-monitoring event, per discussions with the US EPA.

### 3.3.1 *Field Quality Control*

The field QC samples associated with the March 2013 groundwater monitoring event included field duplicate samples, equipment rinsate blanks, field blanks, matrix spike/matrix spike duplicate (MS/MSDs), and trip blanks.

Field duplicate samples were used to evaluate overall field sample precision and were collected at a frequency of one duplicate for every seven samples. A total of eight duplicate samples were collected. Field duplicate samples were evaluated by calculating the control limit between the parent sample and it's duplicate. Acceptable precision control limit criteria were established at a maximum relative percent difference (RPD) of ± 20 percent. Of the eight field duplicate pairs collected, seven had RPDs of ≤ 20 percent for all analytes. The duplicate pair for OU3-16S had two RPDs over 20 percent for TCE and 1,1-dichloroethane. The US EPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified based on field duplicate imprecision. Thus, even with the one duplicate exceeding the RPDs, the overall analytical and sampling precision for this event was considered acceptable.

Eleven equipment rinsate blanks and nine trip blanks were collected during the groundwater-monitoring event. These were analyzed for VOCs by US EPA Method 8260B. No analytes were detected in any of the trip blank samples. All eleven equipment rinsate blanks contained detectable concentrations of trihalomethanes (chloroform, bromodichloromethane, and dibromochloromethane), which are compounds typically found in disinfected water. One of the eleven equipment blanks (GW-EB-2-030613) also contained carbon disulfide, which is a common laboratory contaminant.

### 3.3.2 *Laboratory Quality Control*

Data were evaluated in terms of precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters. The PARCC parameters evaluated for the March 2013 groundwater data set as follows:

***Precision:*** Precision was expressed as RPD between the results of replicate sample analyses: sample duplicates, laboratory control sample duplicates (LCSD), and the MSD. When analyte RPDs exceeded acceptance criteria, results were flagged, as appropriate.

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For the March 2013 groundwater-monitoring event, most LCSD and MSD results were reported within project control limits. If the LCSD or MSD sample results were reported outside of the project control limits, due to high or low surrogate recoveries, the data were flagged with either UJ or J. UJ indicates that the analyte was analyzed for but not detected; thus, the sample detection limit is an estimated value. J indicates that the reported result is an estimated value.

***Accuracy:*** Accuracy was demonstrated by recovery of target analytes from spiked blank and sample matrices, laboratory control samples, and MS samples. For organic methods, accuracy was also demonstrated through recovery of surrogates from each field and QC sample. The recovery of target analytes from spiked samples was compared to prescriptive acceptance criteria. When these criteria were not met, the data were flagged, as appropriate.

For the March 2013 groundwater-monitoring event, most of the laboratory control sample and MS sample results were reported within project control limits. The surrogate recoveries that were only marginally outside project control limits were flagged, but did not affect data usability.

***Representativeness:*** Representativeness of the samples submitted for analysis was ensured by adhering to the standard sampling techniques documented in the Work Plan.

***Comparability:*** Comparability of sample results was ensured using the approved sampling and analysis methods specified in the Work Plan.

***Completeness:*** Two samples, EWOU3-10S-R and SC-MW-1D, could not be collected because of insufficient water and access issues, respectively. This resulted in 96 percent field completeness for the sampling event. Based on results of data validation for the samples submitted for laboratory analysis, analytical completeness was approximately 99 percent. Analytical completeness was less than 100 percent due to qualification (i.e., addition of U and/or J flags) of some of the analytes for a small number of the samples. None of the flagged results were considered unusable; therefore, technical completeness was 100 percent.

In conclusion, the analytical results generally met the PARCC objectives. Non-detected results were rejected in samples GW-EB3-030713, GW-EB6-031113 and EW-19S-S-031513-Q1 for method 8270C due to low surrogate percent recovery below 10 percent. No other data were rejected and there were no additional data quality issues identified. Therefore, the results associated with this sampling event are considered of good quality and useable for the intended purpose.

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## 3.4 *DATA VALIDATION*

This report also contains data that were not collected as part of the OU3 groundwater-monitoring program and, therefore, were not included in the OU3 data validation process. CRA (CRA 2013) and CH2M HILL (2013) provided data that were not collected or validated as part of the OU3 monitoring program; those data were validated separately as part of their respective groundwater monitoring programs.

The project data from the March 2013 OU3 semiannual groundwater monitoring event were validated in accordance with Section 4.1 of the QAPP for compliance with project quality assurance/QC requirements, and included an evaluation of field and laboratory QC sample analyses. Samples were analyzed for VOCs and 1,4-dioxane in accordance with the Work Plan.

A Tier 1 data validation was conducted on all laboratory data collected during the OU3 March 2013 groundwater monitoring event, and a Tier 3 data validation was done on 10 percent of the data, in accordance with the QAPP (ERM 2010b). Data validation was performed to evaluate the overall data quality and identify any non-conformances in field or laboratory activities. No samples collected during this monitoring event were flagged for 1,1-DCE, TCE, PCE, 1,1-dichloroethane, and cis-1,2-DCE analyses; however, several samples were flagged J or UJ for 1,4-dioxane. Laboratory and validation data qualifiers are summarized in Table 6. The validation determined that project requirements and completeness were met, and data collected during the March 2013 groundwater-monitoring event are usable for decision-making purposes. A complete data validation report for the OU3 March 2013 groundwater-monitoring event is provided as Appendix F.

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*Figures*

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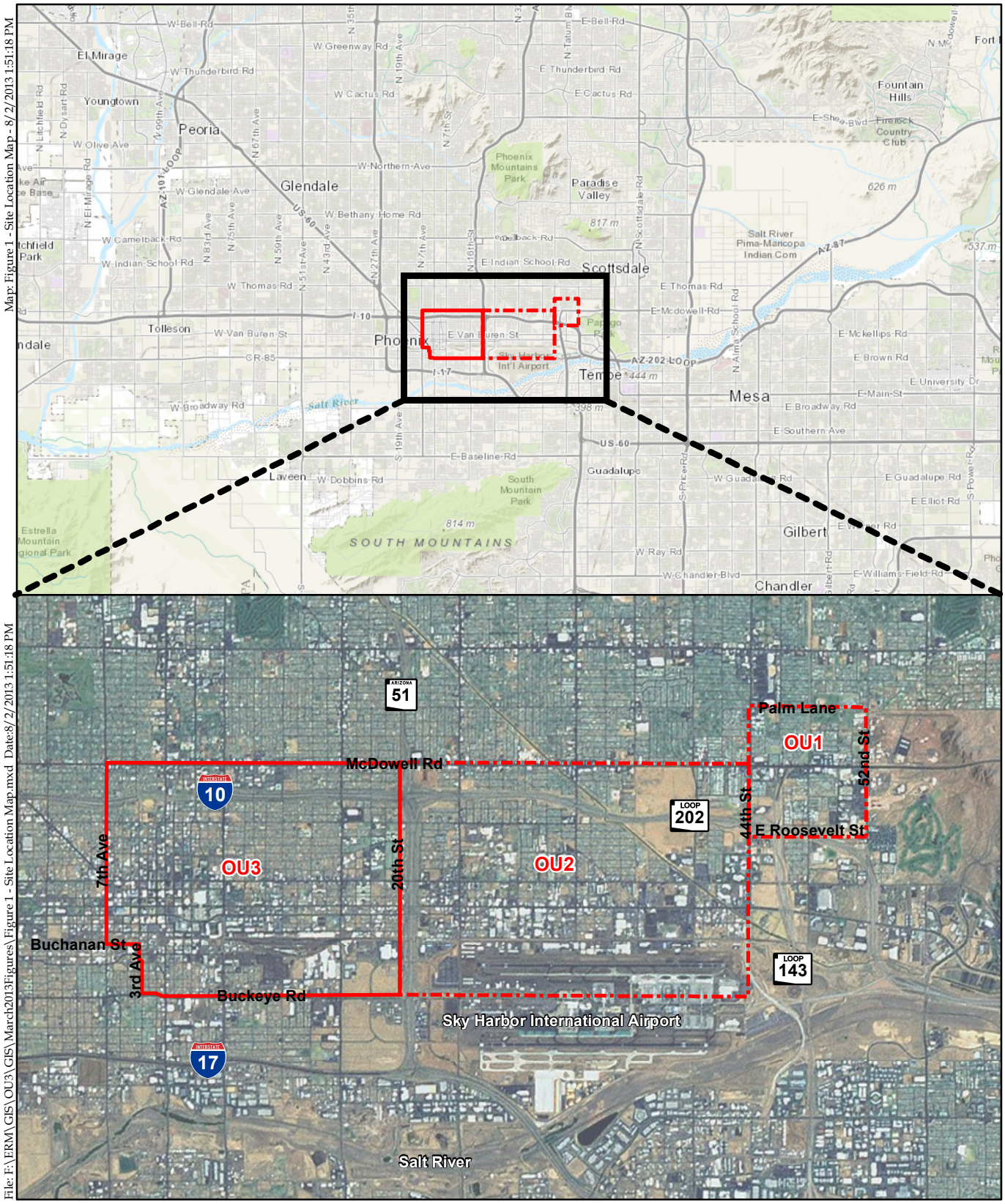

**Legend**

OU3 Boundary

OU1 and OU2 Boundaries

**Figure 1**

*Site Location Map*
*Operable Unit 3 Study Area*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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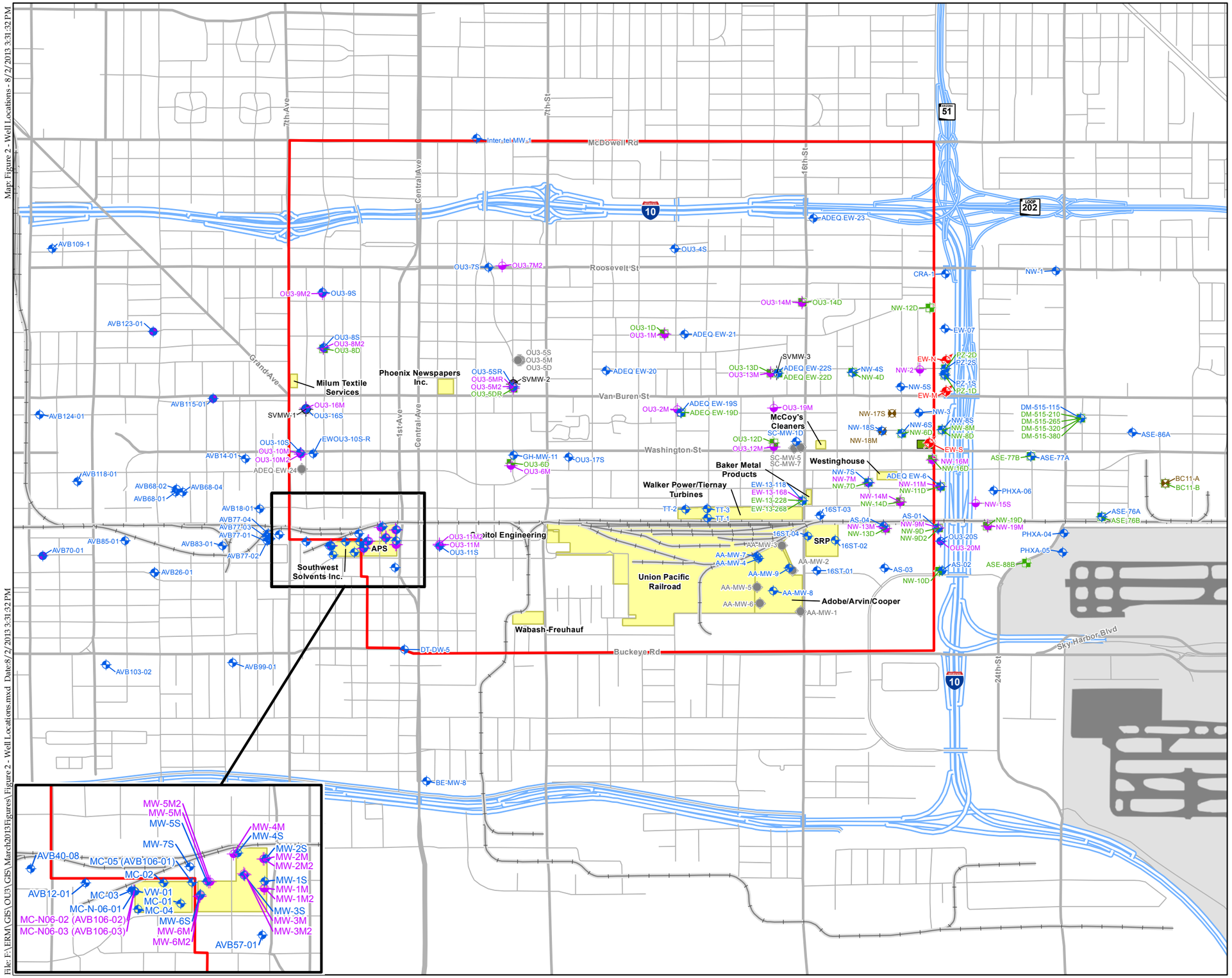


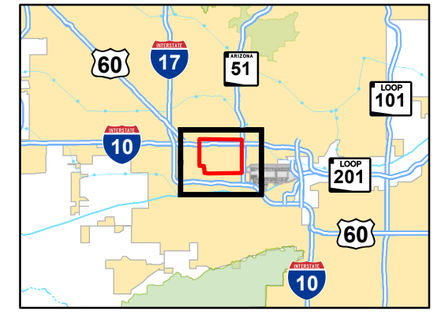


## Legend

- OU2 Groundwater Extraction Well
- Soil Vapor Monitoring Well
- Abandoned Well

Salt River Gravel Sub-units

- Upper Salt River Gravels (U-SRG) Groundwater Well
- Upper/Lower Salt River Gravel (U/L-SRG) Groundwater Well
- Lower Salt River Gravels (L-SRG) Groundwater Well

Basin Fill Sub-unit

- Basin Fill Monitoring Well
- Colluvium Monitoring Well

- OU3 Boundary
- OU2 Remediation Facility
- PRP Location

**Notes:**
PRP: Potentially Responsible Party

N

0 2,000 4,000 Feet

**Figure 2**
*Well Locations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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Map: Figure 2 - Well Locations - 8/2/2013 3:31:32 PM
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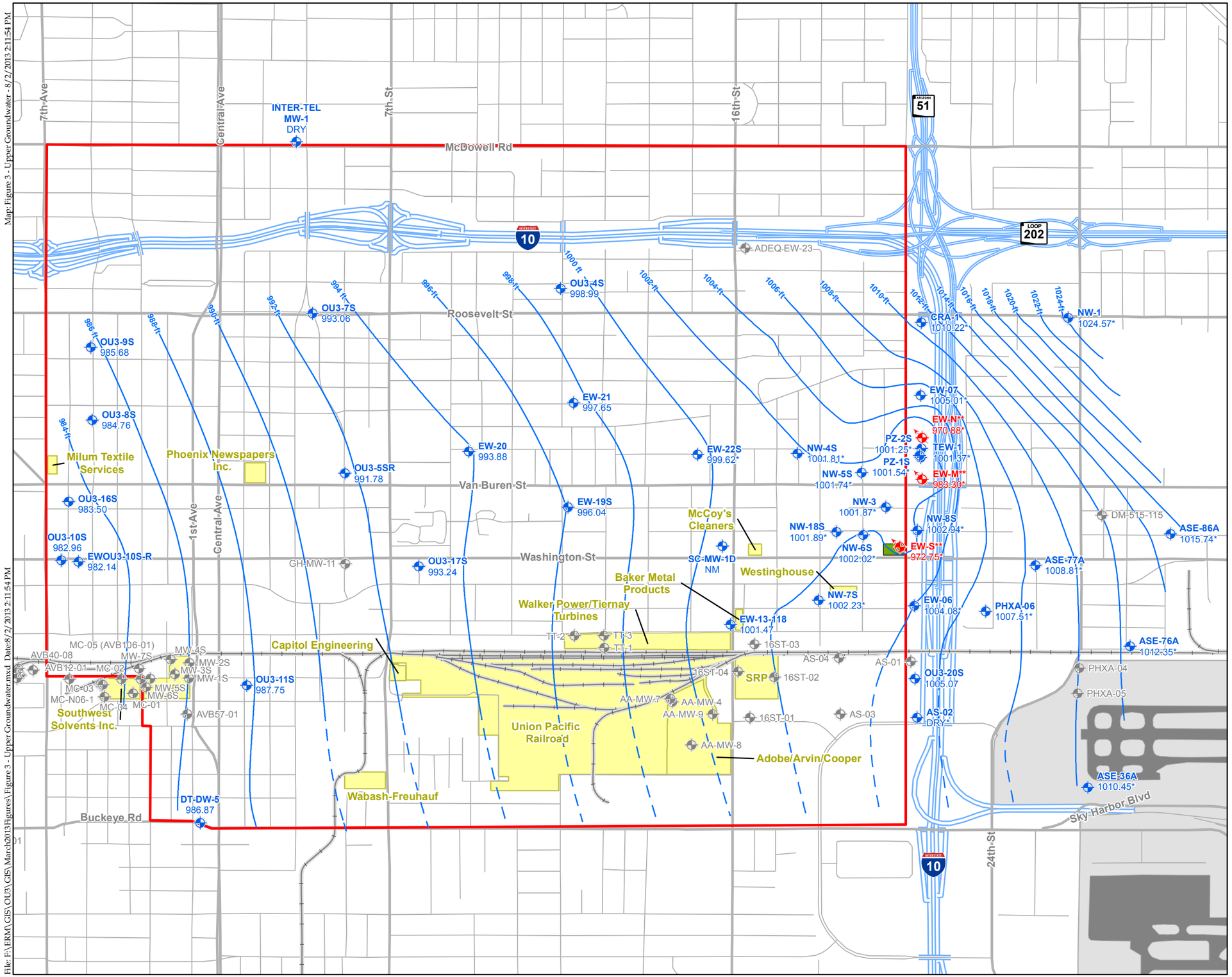


**Figure 3**
*Upper Salt River Gravels Sub-unit*
*Groundwater Contour Map*
*March 2013*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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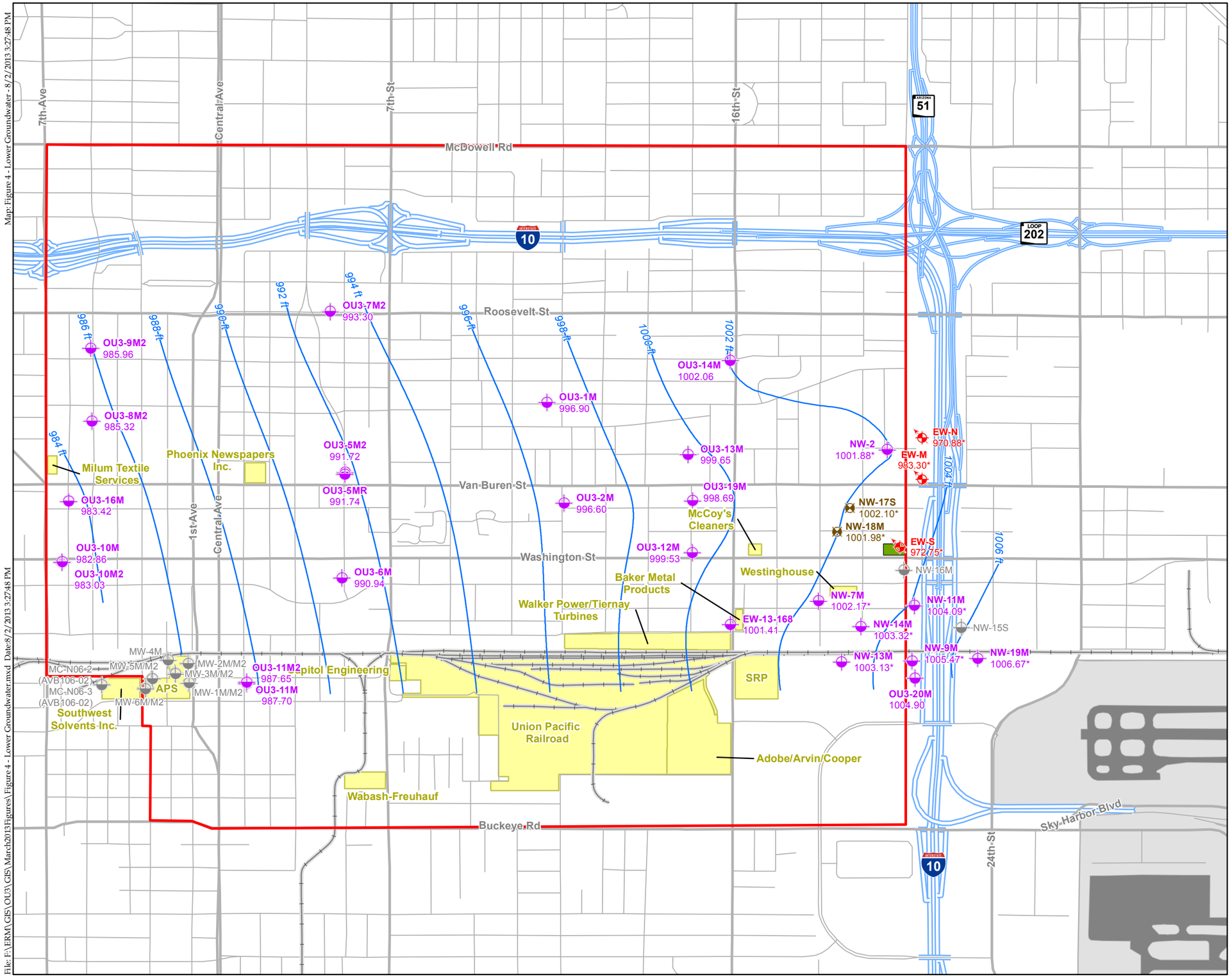


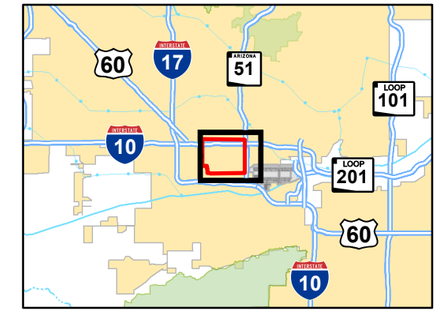


## Legend

Lower Salt River Gravels Sub-unit

- Lower Salt River Gravel (L-SRG) Groundwater Well
- Colluvium Zone Monitoring Well
- OU2 Groundwater Extraction Well, Not Used for Contouring
- Well Not Monitored in March 2013 by OU2 or OU3 Working Group
- Groundwater Elevation Contour (ft AMSL); Dashed Where Inferred; Contour Interval = 2 ft
- OU3 Boundary
- OU2 Groundwater Treatment Facility
- PRP Location

1000.69 Groundwater Elevation (ft AMSL) in OU3 Monitoring Well, March 2013
1002.75* Groundwater Elevation (ft AMSL) in OU2 Monitoring Well, March 2013
ft AMSL - feet above mean sea level
**Well not used in contouring
NM: Not Measured
SRG: Salt River Gravels
PRP: Potentially Responsible Party

N

0 750 1,500 3,000 Feet

**Figure 4**
*Lower Salt River Gravels Groundwater Contour Map*
*March 2013*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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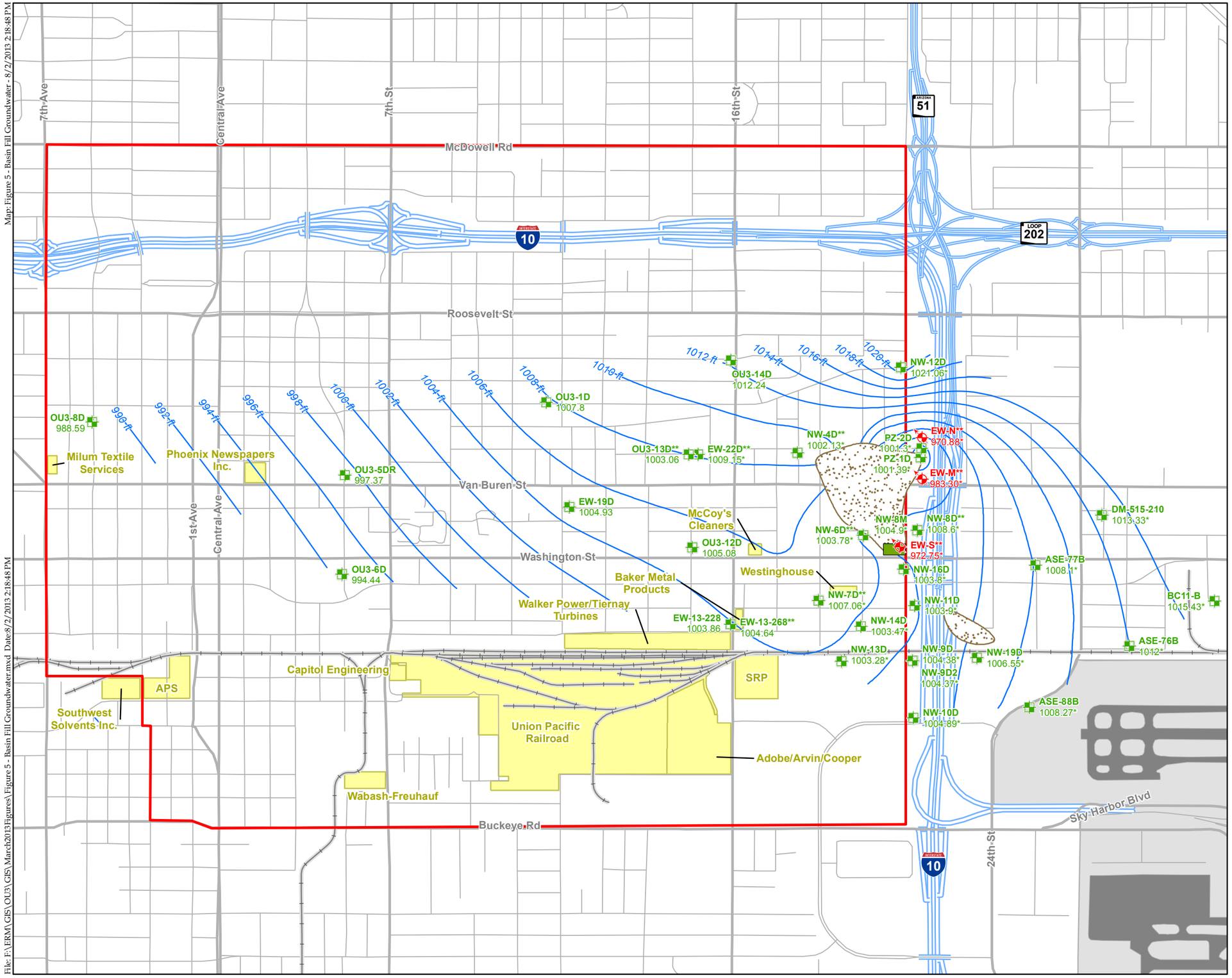


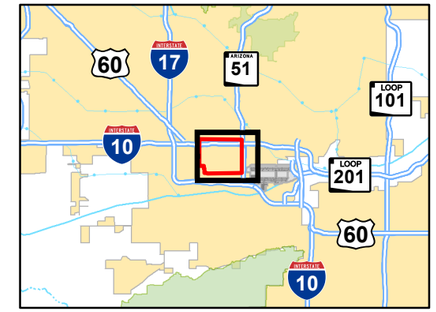


## Legend

Basin Fill Sub-Unit

- Monitoring Well or Piezometer
- OU2 Groundwater Extraction Well
- Well Not Monitored in March 2013 by OU2 or OU3 Working Group
- Groundwater Elevation Contour (ft AMSL); Dashed Where Inferred; Contour Interval = 2 ft
- Intersection of Basin Fill and Bedrock
- OU3 Boundary
- OU2 Groundwater Treatment Facility
- PRP Location

1001.96 Groundwater Elevation (ft AMSL) in OU3 Monitoring Well, March 2013
1001.02* Groundwater Elevation (ft AMSL) in OU2 Monitoring Well, March 2013
ft AMSL - feet above mean sea level
**Well not used in contouring
NM: Not Measured
PRP: Potentially Responsible Party

N

0 750 1,500 3,000 Feet

**Figure 5**
*Basin Fill Sub-unit*
*Groundwater Contour Map*
*March 2013*
*OU3 Study Area*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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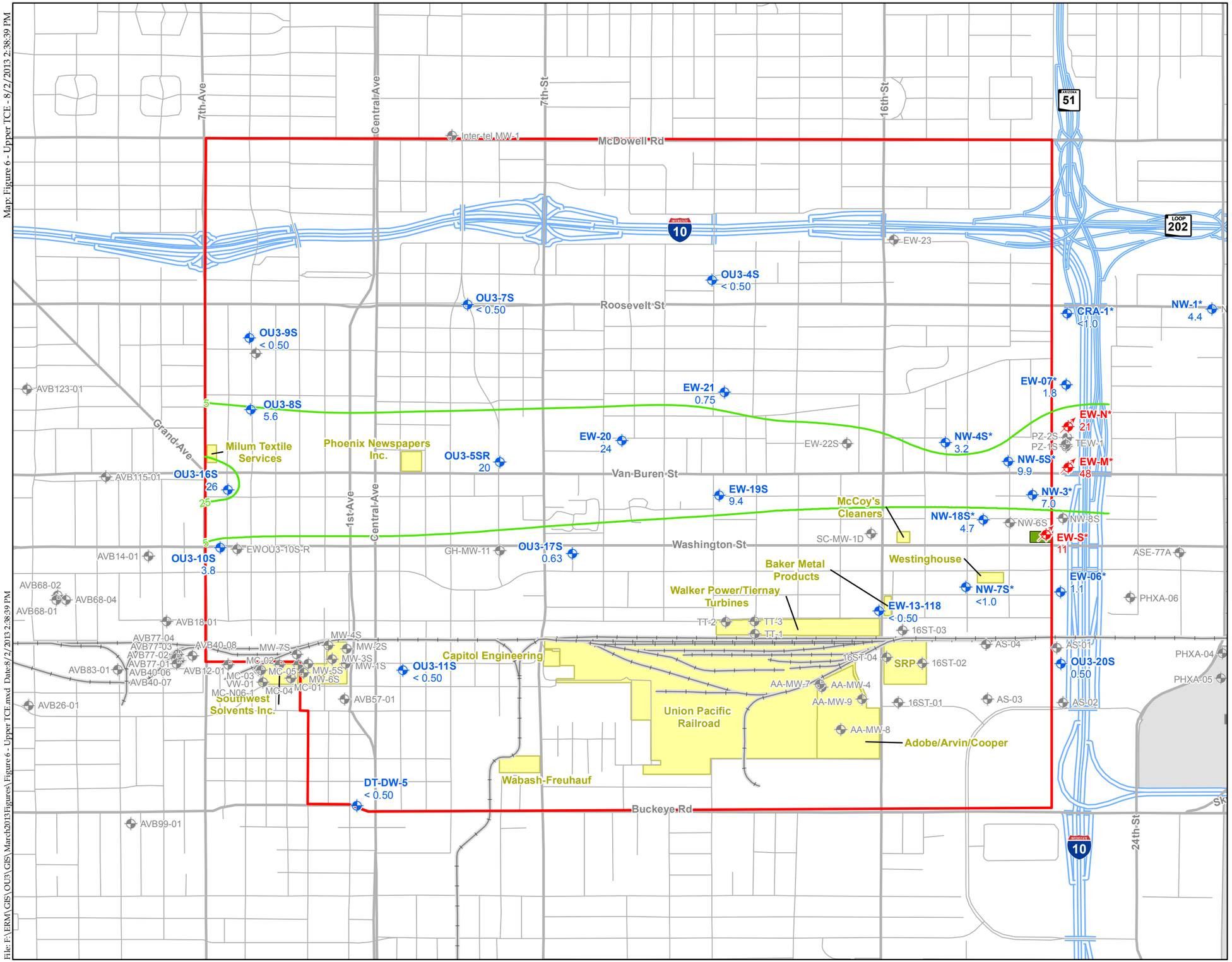


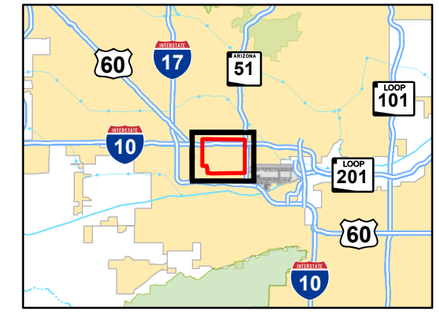


## Legend

Upper Salt River Gravels Sub-unit

- Upper Salt River Gravels (U-SRG) Groundwater Well
- OU2 Groundwater Extraction Well
- Well Not Sampled in March 2013 by OU2 or OU3 Working Group
- TCE Concentration Contour; Dashed Where Inferred
- OU3 Boundary
- OU2 Groundwater Treatment Facility
- PRP Location

**Notes:**

TCE - Trichloroethene
All concentrations in micrograms per liter (ug/L)
* - TCE concentration in OU2 monitoring well
<0.50 - TCE not detected above the laboratory reporting limit
SRG: Salt River Gravels
PRP: Potentially Responsible Party

N

0 750 1,500 3,000 Feet

**Figure 6**
*Upper Salt River Gravels Sub-unit*
*TCE Contour Map*
*March 2013*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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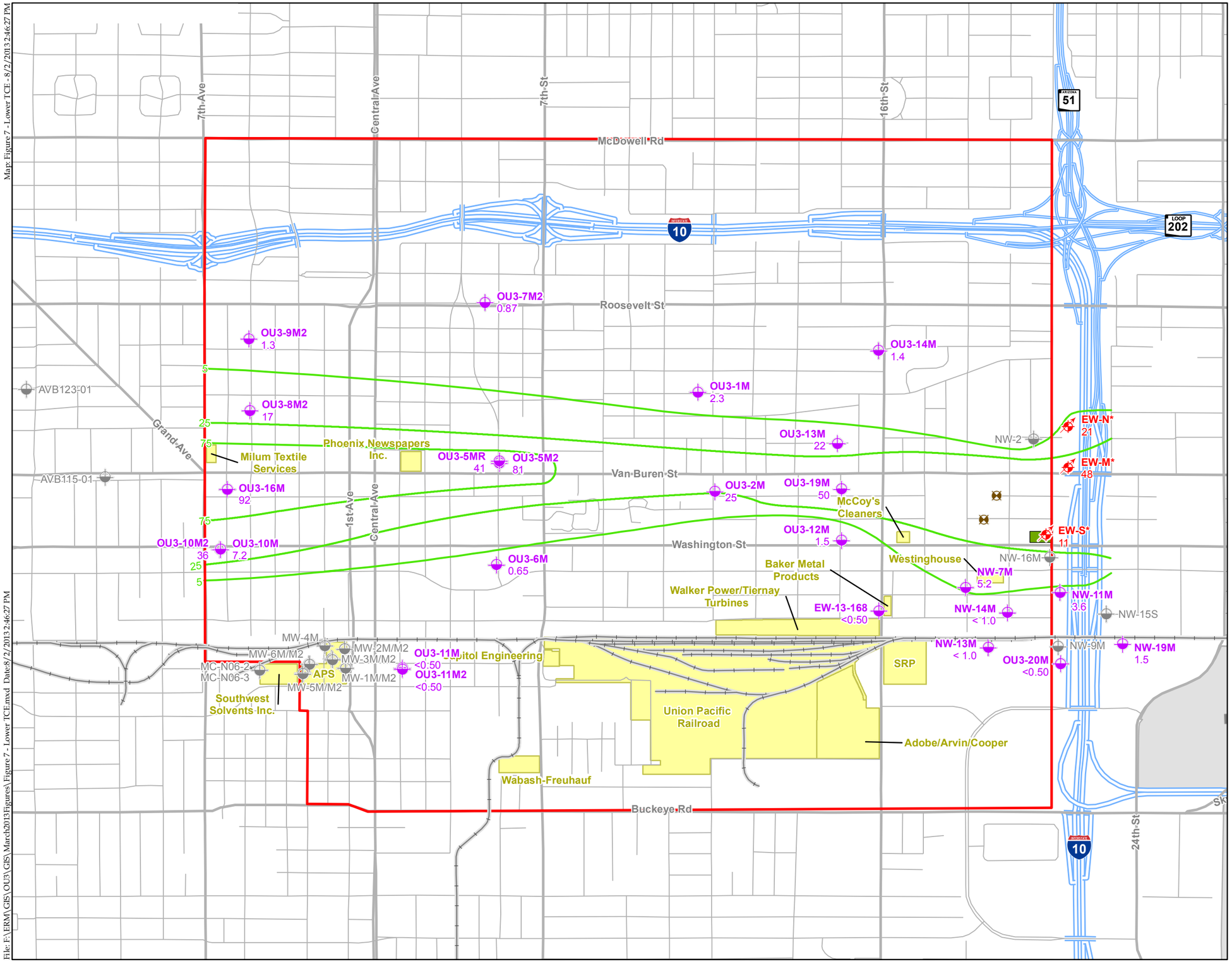


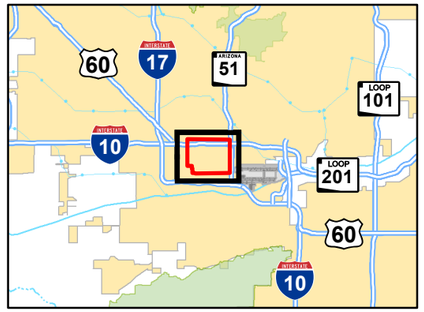


## Legend

Lower Salt River Gravels Sub-unit

- Lower Salt River Gravels (L-SRG) Groundwater Well
- Colluvium Zone Groundwater Well
- OU2 Groundwater Extraction Well
- Well Not Sampled in March 2013 by OU2 or OU3 Working Group
- TCE Concentration Contour; Dashed Where Inferred
- OU3 Boundary
- OU2 Groundwater Treatment Facility
- PRP Location

**Notes:**

TCE - Trichloroethene
All concentrations in micrograms per liter (ug/L)
* - TCE concentration in OU2 monitoring well
<0.50 - TCE not detected above the laboratory reporting limit
SRG: Salt River Gravels
PRP: Potentially Responsible Party

N

0 750 1,500 3,000 Feet

**Figure 7**
*Lower Salt River Gravels Sub-unit*
*TCE Contour Map*
*March 2013*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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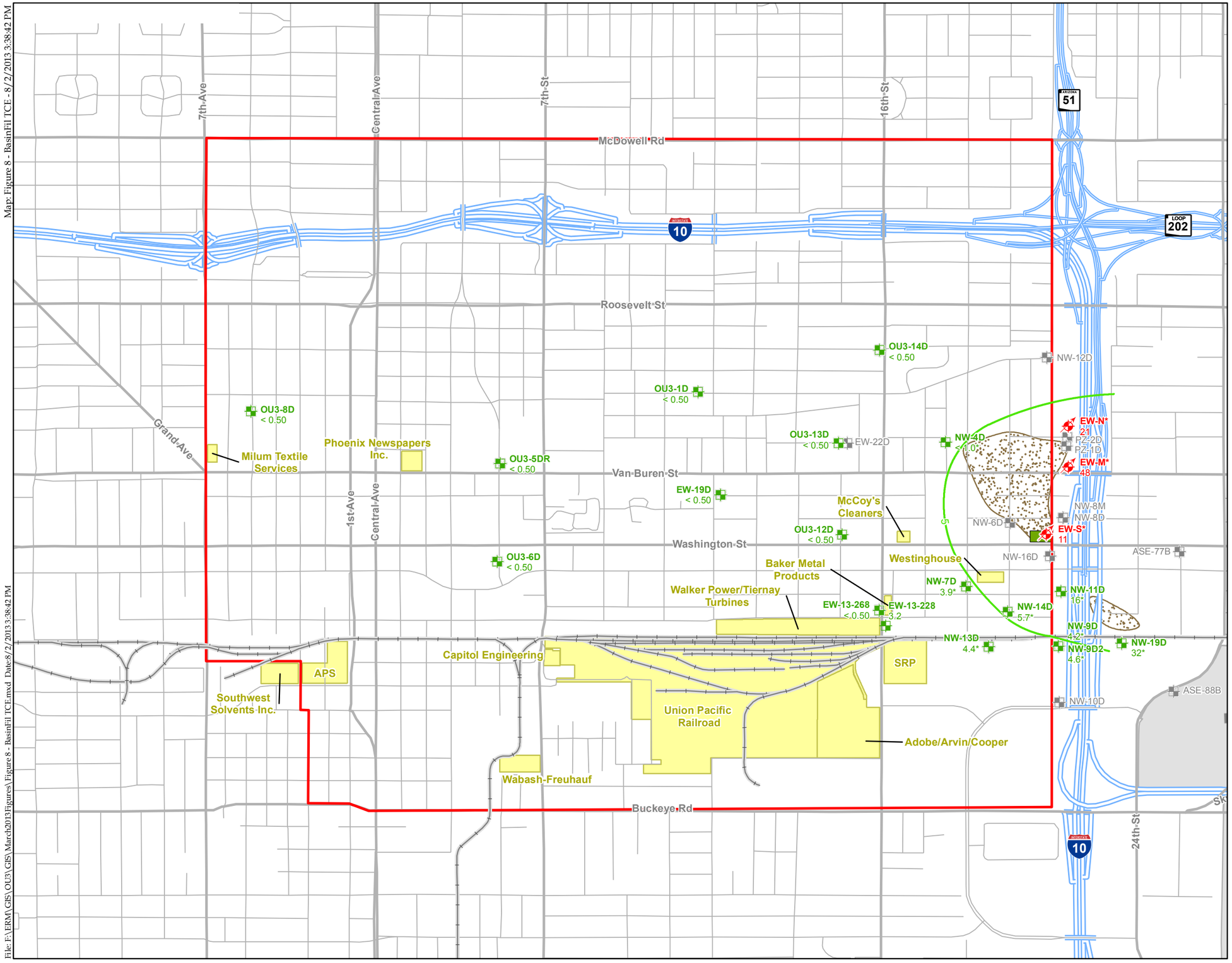


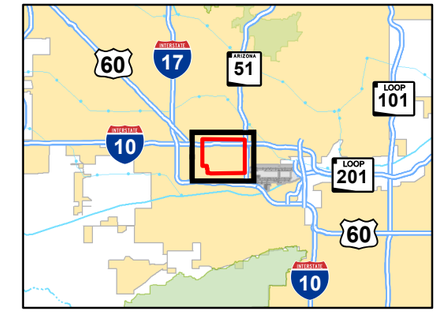


## Legend

Basin Fill Sub-unit

- Basin Fill Groundwater Well
- OU2 Groundwater Extraction Well
- Well Not Sampled in March 2013 by OU2 or OU3 Working Group
- TCE Concentration Contour; Dashed Where Inferred
- Intersection of Basin Fill and Bedrock
- OU3 Boundary
- OU2 Groundwater Treatment Facility
- PRP Location

**Notes:**

TCE - Trichloroethene
All concentrations in micrograms per liter (ug/L)
* - TCE concentration in OU2 monitoring well
<0.50 - TCE not detected above the laboratory reporting limit
PRP: Potentially Responsible Party

N

0 750 1,500 3,000 Feet

**Figure 8**
*Basin Fill Sub-unit*
*TCE Contour Map*
*March 2013*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

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*Tables*

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**Table 2**

*Monitoring Well Construction Details*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone[1] | Latitude | Longitude | Top of Casing Elevation | Top of Screened Interval | Bottom of Screened Interval | Total Depth | Casing Diameter |
|---|---|---|---|---|---|---|---|---|
| Units | | | | ft amsl | ft bgs | ft bgs | ft bgs | (inches) |
| BE-MW-8 | U-SRG | 33.4300 | -112.07 | 1076.35 | 75 | 105 | 105 | 4 |
| DT-DW-5 | U-SRG | 33.4370 | -112.0747 | 1077.90 | 59 | 99 | 99 | 2 |
| EWOU3-10S-R | U-SRG | 33.4480 | -112.0809 | 1081.62 | 60 | 100 | 102 | 4 |
| EW-13-118 | U-SRG | 33.4454 | -112.0478 | 1092.71 | 114.5 | 119.5 | 309 | 4 |
| EW-13-168 | L-SRG | 33.4454 | -112.0478 | 1092.71 | 164.5 | 169.5 | 309 | 4 |
| EW-13-228 | BF | 33.4454 | -112.0478 | 1092.71 | 224.5 | 229.5 | 309 | 4 |
| EW-13-268 | BF | 33.4454 | -112.0478 | 1092.71 | 264.5 | 269.5 | 309 | 4 |
| EW-19S | U-SRG | 33.4504 | -112.0561 | 1087.32 | 57 | 107 | 112 | 4 |
| EW-19D | BF | 33.4504 | -112.0561 | 1087.34 | 247 | 267 | 270 | 4 |
| EW-20 | U-SRG | 33.4528 | -112.0561 | 1091.38 | 59 | 109 | 109 | 4 |
| EW-21 | U-SRG | 33.4548 | -112.0558 | 1094.24 | 58 | 108 | 108 | 4 |
| EW-22S | U-SRG | 33.4526 | -112.0497 | 1095.81 | 58 | 108 | 112 | 4 |
| GH-MW-11 | U-SRG | 33.4480 | -112.0673 | 1083.30 | 50 | 100 | 100.9 | 4 |
| IN-MW-1 | U-SRG | 33.4659 | -112.0698 | 1088.38 | 70 | 90 | 90 | 4 |
| SC-MW-1D | U-SRG | 33.4487 | -112.0482 | 1092.39 | 83 | 123 | 125 | 4 |
| OU3-1M | L-SRG | 33.4548 | -112.0571 | 1093.30 | 140 | 160 | 162 | 4 |
| OU3-1D | BF | 33.4548 | -112.0572 | 1093.09 | 235 | 255 | 259 | 4 |
| OU3-2M | L-SRG | 33.4506 | -112.0563 | 1087.97 | 150 | 170 | 175 | 4 |
| OU3-4S | U-SRG | 33.4597 | -112.0565 | 1094.74 | 59.2 | 110 | 110 | 4 |
| OU3-5SR | U-SRG | 33.4518 | -112.0674 | 1087.28 | 69.7 | 119.7 | 120 | 4 |
| OU3-5MR | L-SRG | 33.4518 | -112.0674 | 1087.37 | 148.7 | 168.7 | 169 | 4 |
| OU3-5M2[1] | L-SRG | 33.4519 | -112.0674 | 1087.24 | 202.7 | 222.7 | 253 | 4 |
| OU3-5DR | BF | 33.4517 | -112.0674 | 1087.35 | 232.7 | 252.7 | 253 | 4 |
| OU3-6M | L-SRG | 33.4474 | -112.0675 | 1083.66 | 152 | 172 | 172.5 | 4 |
| OU3-6D | BF | 33.4475 | -112.0675 | 1083.77 | 230 | 250 | 261 | 4 |
| OU3-7S | U-SRG | 33.4586 | -112.069 | 1085.29 | 60 | 110 | 112 | 4 |
| OU3-7M2 | L-SRG | 33.4587 | -112.0681 | 1085.59 | 195 | 215 | 221 | 4 |
| OU3-8S | U-SRG | 33.4541 | -112.0802 | 1080.05 | 59.9 | 110.5 | 110.5 | 4 |
| OU3-8M2 | L-SRG | 33.4540 | -112.0802 | 1080.39 | 205.5 | 225.6 | 228 | 4 |
| OU3-8D | BF | 33.4540 | -112.0802 | 1080.00 | 260.5 | 270 | 273 | 4 |
| OU3-9S | U-SRG | 33.4572 | -112.0802 | 1080.55 | 59.6 | 110.2 | 110.5 | 4 |
| OU3-9M2[1] | L-SRG | 33.4571 | -112.0802 | 1080.74 | 219.7 | 229.7 | 235 | 4 |
| OU3-10M | L-SRG | 33.4480 | -112.0817 | 1082.25 | 146.7 | 166.7 | 170 | 4 |
| OU3-10M2 | L-SRG | 33.4480 | -112.0817 | 1082.29 | 199.2 | 219.2 | 225 | 4 |
| OU3-10S | U-SRG | 33.4482 | -112.0818 | 1081.90 | 125.2 | 75 | 125 | 4 |
| OU3-11S | U-SRG | 33.4428 | -112.0723 | 1078.26 | 69.7 | 119.7 | 123 | 4 |
| OU3-11M | L-SRG | 33.4429 | -112.0723 | 1078.25 | 153.7 | 173.7 | 178 | 4 |
| OU3-11M2[1] | L-SRG | 33.4429 | -112.0723 | 1078.05 | 196.7 | 216.7 | 230 | 4 |
| OU3-12M | L-SRG | 33.4485 | -112.0498 | 1090.79 | 146.7 | 166.7 | 170 | 4 |
| OU3-12D | BF | 33.4487 | -112.0498 | 1090.77 | 245.6 | 265.6 | 396 | 4 |
| OU3-13M | L-SRG | 33.4526 | -112.0500 | 1095.75 | 154.7 | 174.7 | 175 | 4 |
| OU3-13D | BF | 33.4526 | -112.0500 | 1095.71 | 224.7 | 244.7 | 250 | 4 |
| OU3-14M | L-SRG | 33.4566 | -112.0479 | 1099.05 | 145.7 | 165.7 | 168 | 4 |
| OU3-14D | BF | 33.4566 | -112.0478 | 1099.14 | 231.2 | 251.2 | 251.5 | 4 |
| OU3-16S | U-SRG | 33.4507 | -112.0814 | 1082.19 | 125.2 | 75 | 125 | 4 |
| OU3-16M | L-SRG | 33.4506 | -112.0814 | 1082.25 | 180.5 | 160 | 180 | 4 |
| OU3-17S | U-SRG | 33.4479 | -112.0637 | 1082.22 | 120.2 | 70 | 120 | 4 |
| OU3-19M | L-SRG | 33.4507 | -112.0498 | 1091.21 | 170.2 | 150 | 170 | 4 |
| OU3-20S | U-SRG | 33.4432 | -112.0385 | 1100.20 | 115.2 | 65 | 115 | 4 |
| OU3-20M | L-SRG | 33.4432 | -112.0385 | 1100.12 | 180.2 | 160 | 180 | 4 |

**Notes:**

amsl = above mean sea level
bgs = below ground surface
ft = feet
U-SRG = Upper Salt River Gravels Sub-unit
L-SRG = Lower Salt River Gravels Sub-unit
BF = Basin Fill Sub-unit

Well data information taken from the March 2009 Groundwater Monitoring Report - Operable Unit 3 by Shaw Environmental, Inc. (Shaw 2010).
Hydrostratigraphic zones are from the Sitewide Lithology Table revised 6 June 2011.
[1]Although wells OU3-5M2, OU3-9M2, and OU3-11M2 are screened across portions of L-SRG and BF, they are classified as L-SRG wells for mapping purposes.

**Table 3**

*March 2013 Groundwater Sampling Event*
*Groundwater Elevations Summary*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone[1] | Gauging Date | Top of Casing Elevation | Screened Interval | Depth-to-Water | Groundwater Elevation | Groundwater Elevation Change |
|---|---|---|---|---|---|---|---|
| Units | | | ft amsl | ft bgs | ft btoc | ft amsl | (From September 2012) |
| DT-DW-5 | U-SRG | 3/4/2013 | 1,077.90 | 55-99 | 91.03 | 986.87 | 2.89 |
| EW-13-118 | U-SRG | 3/4/2013 | 1,092.71 | 114.5-119.5 | 91.24 | 1,001.47 | -1.91 |
| EW-13-168 | L-SRG | 3/4/2013 | 1,092.71 | 164.5-169.5 | 91.30 | 1,001.41 | -2.45 |
| EW-13-228 | Basin Fill | 3/4/2013 | 1,092.71 | 224.5-229.5 | 88.85 | 1,003.86 | -1.15 |
| EW-13-268 | Basin Fill | 3/4/2013 | 1,092.71 | 264.5-269.5 | 88.07 | 1,004.64 | -0.76 |
| EW-19D | Basin Fill | 3/5/2013 | 1,087.34 | 247-267 | 82.41 | 1,004.93 | 1.44 |
| EW-19S | U-SRG | 3/5/2013 | 1,087.32 | 57-107 | 91.28 | 996.04 | -1.42 |
| EW-20 | U-SRG | 3/5/2013 | 1,091.38 | 59-109 | 97.50 | 993.88 | -1.11 |
| EW-21 | U-SRG | 3/5/2013 | 1,094.24 | 58-108 | 96.59 | 997.65 | -1.65 |
| EWOU3-10S-R | U-SRG | 3/4/2013 | 1,081.62 | 60-100 | 99.48 | 982.14 | 1.19 |
| OU3-10M | L-SRG | 3/5/2013 | 1,082.25 | 146.7-166.7 | 99.39 | 982.86 | 3.23 |
| OU3-10M2 | L-SRG | 3/5/2013 | 1,082.29 | 199.2-219.2 | 99.26 | 983.03 | 3.11 |
| OU3-10S | U-SRG | 3/4/2013 | 1,081.90 | 75-125 | 98.94 | 982.96 | 3.25 |
| OU3-11M | L-SRG | 3/5/2013 | 1,078.25 | 153.7-173.7 | 90.55 | 987.70 | 1.78 |
| OU3-11M2[1] | L-SRG | 3/5/2013 | 1,078.05 | 196.7-216.7 | 90.40 | 987.65 | 1.79 |
| OU3-11S | U-SRG | 3/5/2013 | 1,078.26 | 69.7-119.7 | 90.51 | 987.75 | 1.79 |
| OU3-12D | Basin Fill | 3/5/2013 | 1,090.77 | 245.6-265.6 | 85.69 | 1,005.08 | 0.21 |
| OU3-12M | L-SRG | 3/5/2013 | 1,090.79 | 146.7-166.7 | 91.26 | 999.53 | -1.74 |
| OU3-13D | Basin Fill | 3/5/2013 | 1,095.71 | 224.7-244.7 | 92.81 | 1,002.90 | -0.66 |
| OU3-13M | L-SRG | 3/14/2013 | 1,095.75 | 154.7-174.7 | 96.10 | 999.65 | -1.79 |
| OU3-14D | Basin Fill | 3/5/2013 | 1,099.14 | 231.2-251.2 | 96.87 | 1,002.27 | 0.19 |
| OU3-14M | L-SRG | 3/5/2013 | 1,099.05 | 145.7-165.7 | 96.99 | 1,002.06 | -1.84 |
| OU3-16M | L-SRG | 3/5/2013 | 1,082.25 | 160-180 | 98.83 | 983.42 | 2.59 |
| OU3-16S | U-SRG | 3/5/2013 | 1,082.19 | 75-125 | 98.69 | 983.50 | 2.52 |
| OU3-17S | U-SRG | 3/5/2013 | 1,082.22 | 70-120 | 88.98 | 993.24 | -0.46 |
| OU3-19M | L-SRG | 3/5/2013 | 1,091.21 | 150-170 | 92.52 | 998.69 | -2.74 |
| OU3-1D | Basin Fill | 3/5/2013 | 1,093.09 | 235-255 | 85.29 | 1,007.80 | 12.20 |
| OU3-1M | L-SRG | 3/5/2013 | 1,093.30 | 140-160 | 96.40 | 996.90 | -1.56 |
| OU3-20M | L-SRG | 3/5/2013 | 1,100.12 | 160-180 | 95.22 | 1,004.90 | -2.45 |
| OU3-20S | U-SRG | 3/5/2013 | 1,100.20 | 65-115 | 95.13 | 1,005.07 | -2.49 |
| OU3-2M | L-SRG | 3/5/2013 | 1,088.00 | 150-170 | 91.40 | 996.60 | -1.38 |
| OU3-4S | U-SRG | 3/5/2013 | 1,094.74 | 59.2-110 | 95.75 | 998.99 | -1.72 |
| OU3-5DR | Basin Fill | 3/5/2013 | 1,087.35 | 232.7-252.7 | 89.98 | 997.37 | 1.62 |
| OU3-5M2[1] | L-SRG | 3/5/2013 | 1,087.24 | 202.7-222.7 | 95.52 | 991.72 | -0.34 |
| OU3-5MR | L-SRG | 3/5/2013 | 1,087.37 | 148.7-168.7 | 95.63 | 991.74 | -0.29 |
| OU3-5SR | U-SRG | 3/5/2013 | 1,087.28 | 69.7-119.7 | 95.50 | 991.78 | -0.41 |
| OU3-6D | Basin Fill | 3/5/2013 | 1,083.77 | 230-250 | 89.33 | 994.44 | 1.36 |
| OU3-6M | L-SRG | 3/5/2013 | 1,083.66 | 152-172 | 92.72 | 990.94 | 0.26 |
| OU3-7M2 | L-SRG | 3/5/2013 | 1,085.59 | 195-215 | 92.29 | 993.30 | -1.08 |
| OU3-7S | U-SRG | 3/5/2013 | 1,085.29 | 60-110 | 92.23 | 993.06 | -1.10 |
| OU3-8D | Basin Fill | 3/5/2013 | 1,080.00 | 260.5-270 | 91.41 | 988.59 | 3.36 |
| OU3-8M2 | L-SRG | 3/5/2013 | 1,080.39 | 205.5-225.6 | 95.07 | 985.32 | 1.38 |
| OU3-8S | U-SRG | 3/5/2013 | 1,080.05 | 59.9-110.5 | 95.29 | 984.76 | 1.46 |
| OU3-9M2[1] | L-SRG | 3/5/2013 | 1,080.74 | 219.7-229.7 | 94.78 | 985.96 | 0.63 |
| OU3-9S | U-SRG | 3/5/2013 | 1,080.55 | 59.6-110.2 | 94.87 | 985.68 | 0.59 |
| SC-MW-1D | U-SRG | 3/5/2013 | 1,092.39 | 83-123 | NG | | |
| | | | | | | Average = | 0.36 |

**Notes:**

amsl = above mean sea level
btoc = below top of casing
bgs = below ground surface
ft = feet
U-SRG = Upper Salt River Gravels Sub-unit
L-SRG = Lower Salt River Gravels Sub-unit

Hydrostratigraphic zones are from the Sitewide Lithology Table revised 6 June 2011.
[1]Although wells OU3-5M2, OU3-9M2, and OU3-11M2 are screened across portions of L-SRG and BF, they are classified as L-SRG wells for mapping purposes.

**Table 6**

*March 2013 Groundwater Sampling Event*
*Analytical Data Summary*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone[1] | Sample Date | Screened Interval | TCE | PCE | cis-1,2-DCE | 1,1-DCA | 1,1-DCE | 1,4-Dioxane |
|---|---|---|---|---|---|---|---|---|---|
| Units | | | ft btoc | µ/L | µ/L | µ/L | µ/L | µ/L | µ/L |
| AWQS | | | | **5** | **5** | **70** | NA | **7** | NA |
| DT-DW-5 | U-SRG | 3/4/2013 | 59-99 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.2 |
| EW-13-118 | U-SRG | 3/4/2013 | 114.5-119.5 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.1 |
| EW-13-168 | L-SRG | 3/4/2013 | 164.5-169.5 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| EW-13-228 | Basin Fill | 3/4/2013 | 224.5-229.5 | 3.2 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| EW-13-268 | Basin Fill | 3/4/2013 | 264.5-269.5 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.1 |
| EW-19D | Basin Fill | 3/15/2013 | 247-267 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| EW-19S | U-SRG | 3/15/2013 | 57-107 | **9.4** | 0.63 | 2.2 | 1.6 | 2.2 | 1.2 |
| EW-19S-Q1 | U-SRG | 3/15/2013 | 57-107 | **9.3** | 0.57 | 2.3 | 1.7 | 2.3 | 1.4 J |
| EW-20 | U-SRG | 3/13/2013 | 59-109 | **24** | 1.0 | 4.4 | 2.0 | 2.8 | 1.2 J |
| EW-21 | U-SRG | 3/11/2013 | 58-108 | 0.75 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-10M | L-SRG | 3/11/2013 | 146.7-166.7 | **7.2** | < 0.50 | 1.7 | 1.4 | 2.2 | 1.0 J |
| OU3-10M2 | L-SRG | 3/11/2013 | 199.2-219.2 | **36** | 1.7 | 7.3 | 5.4 | **9.8** | 2.8 |
| OU3-10S | U-SRG | 3/11/2013 | 75-125 | 3.8 | < 0.50 | 0.84 | 0.76 | 1.1 | < 1.0 UJ |
| OU3-10S-Q1 | U-SRG | 3/11/2013 | 75-125 | 4.1 | < 0.50 | 0.99 | 0.84 | 1.0 | < 1.0 UJ |
| OU3-11M | L-SRG | 3/6/2013 | 153.7-173.7 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-11M-Q1 | L-SRG | 3/6/2013 | 153.7-173.7 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-11M2[1] | L-SRG | 3/6/2013 | 196.7-216.7 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-11S | U-SRG | 3/6/2013 | 69.7-119.7 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-12D | Basin Fill | 3/6/2013 | 245.6-265.6 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-12M | L-SRG | 3/6/2013 | 146.7-166.7 | 1.5 | < 0.50 | < 0.50 | < 0.50 | 0.86 | < 1.2 UJ |
| OU3-13D | Basin Fill | 3/14/2013 | 224.7-244.7 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-13M | L-SRG | 3/14/2013 | 154.7-174.7 | **22** | < 0.50 | 2.1 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-13M-Q1 | L-SRG | 3/14/2013 | 154.7-174.7 | **22** | 0.50 | 2.1 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-14D | Basin Fill | 3/13/2013 | 231.2-251.2 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-14M | L-SRG | 3/13/2013 | 145.7-165.7 | 1.4 | 0.54 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-16M | L-SRG | 3/11/2013 | 160-180 | **92** | 4.2 | 15 | 6.7 | **10** | 3.0 J |
| OU3-16S | U-SRG | 3/11/2013 | 75-125 | **26** | 1.2 | 5.2 | 3.3 | 4.3 | 2.0 J |
| OU3-16S-Q1 | U-SRG | 3/11/2013 | 75-125 | **32** | 1.5 | 7.2 | 4.1 | 5.4 | 1.9 J |
| OU3-17S | U-SRG | 3/7/2013 | 70-120 | 0.63 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-19M | L-SRG | 3/13/2013 | 150-170 | **50** | 2.1 | 11 | 6.6 | **10** | 3.0 J |
| OU3-1D | Basin Fill | 3/14/2013 | 235-255 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-1M | L-SRG | 3/13/2013 | 140-160 | 2.3 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-20M | L-SRG | 3/14/2013 | 160-180 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-20S | U-SRG | 3/14/2013 | 65-115 | 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-2M | L-SRG | 3/15/2013 | 150-170 | **25** | 1.2 | 4.9 | 2.8 | 4.6 | 2.1 |
| OU3-4S | U-SRG | 3/7/2013 | 59.2-110 | < 0.50 | 2.5 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-5DR | Basin Fill | 3/12/2013 | 232.7-252.7 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-5M2[1] | L-SRG | 3/12/2013 | 202.7-222.7 | **81** | 3.2 | 14 | 5.8 | **9.0** | 2.2 J |
| OU3-5MR | L-SRG | 3/12/2013 | 148.7-168.7 | **41** | 1.8 | 8.7 | 4.7 | 6.7 | 2.3 J |
| OU3-5SR | U-SRG | 3/12/2013 | 69.7-119.3 | **20** | 0.91 | 4.3 | 2.3 | 3.1 | 1.2 J |
| OU3-6D | Basin Fill | 3/7/2013 | 230-250 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-6M | L-SRG | 3/7/2013 | 152-172 | 0.65 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 UJ |
| OU3-7M2 | L-SRG | 3/7/2013 | 195-215 | 0.87 | 1.4 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-7M2-Q1 | L-SRG | 3/7/2013 | 195-215 | 0.77 | 1.3 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-7S | U-SRG | 3/7/2013 | 60-110 | < 0.50 | 3.0 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-8D | Basin Fill | 3/8/2013 | 260.5-270 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-8M2 | L-SRG | 3/8/2013 | 205.5-225.6 | **17** | 0.76 | 1.4 | < 0.50 | < 0.50 | < 1.0 |
| OU3-8M2-Q1 | L-SRG | 3/8/2013 | 205.5-225.6 | **17** | 0.72 | 1.7 | < 0.50 | < 0.50 | < 1.0 |
| OU3-8S | U-SRG | 3/8/2013 | 59.9-110.5 | **5.6** | 0.75 | 0.84 | < 0.50 | < 0.50 | < 1.1 UJ |
| OU3-9M2[1] | L-SRG | 3/8/2013 | 219.7-229.7 | 1.3 | 2.9 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-9M2-Q1 | L-SRG | 3/8/2013 | 219.7-229.7 | 1.2 | 2.7 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| OU3-9S | U-SRG | 3/8/2013 | 59.2-110.2 | < 0.50 | 2.1 | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| SC-MW-1D | U-SRG | NS | 83-123 | NS | NS | NS | NS | NS | NS |

**Notes:**

1,1-DCA = 1,1-Dichlororethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
AWQS = Arizona Water Quality Standards
**BOLD** = greater than or equal to the AWQS
µg/L = micrograms per liter
ft = feet btoc = below top of casing
NS = not sampled

NA = not applicable or no standard
< = concentration is less than indicated detectable value
BF = Basin Fill Sub-unit
U-SRG = Upper Salt River Gravels Sub-unit
L-SRG = Lower Salt River Gravels Sub-unit
Q1 = sample is field duplicate
Well information taken from the March 2009 Groundwater Monitoring Report - Operable Unit 3 by Shaw Environmental, Inc. (Shaw 2010).
Hydrostratigraphic zones are from the Sitewide Lithology Table revised 6 June 2011.
[1]Although wells OU3-5M2, OU3-9M2, and OU3-11M2 are screened across portions of L-SRG and BF, they are classified as L-SRG wells for mapping purposes.

UJ = non detected results are estimated at the report limit
J = results are estimated

**Table 7**

*March 2013 Groundwater Sampling Event*
*Non-OU3 Program Monitoring Well Construction Details,*
*Groundwater Depths, and TCE Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone[1] | Top of Casing Elevation | Top of Screened Interval | Bottom of Screened Interval | Total Depth | Groundwater Elevation | TCE |
|---|---|---|---|---|---|---|---|
| Units | | ft amsl | ft bgs | ft bgs | ft bgs | ft amsl | µg/L |
| AWQS | | | | | | | **5** |
| ASE-28A | U-SRG | 1108.28 | -- | -- | -- | Dry | -- |
| ASE-36A | U-SRG | 1102.58 | 69 | 99 | -- | 1010.45 | -- |
| ASE-76A | U-SRG | 1105.42 | 80 | 130 | 130 | 1012.35 | -- |
| ASE-76B | BF | 1105.34 | 180 | 230 | 265 | 1012.00 | -- |
| ASE-77A | U-SRG | 1101.86 | 85 | 115 | 115 | 1008.81 | -- |
| ASE-77B | BF | 1101.76 | 180 | 230 | 258 | 1008.10 | -- |
| ASE-86A | U-SRG | 1106.07 | 86 | 126 | -- | 1015.74 | -- |
| ASE-88B | BF | 1103.08 | 175 | 215 | 230 | 1008.27 | -- |
| BC-11B | BF | 1111.25 | 135 | 160 | -- | 1015.43 | -- |
| CRA-1 | U-SRG | 1106.48 | 105.5 | 125.5 | 270 | 1010.22 | < 1.0 |
| DM-515-115 | U-SRG | 1103.61 | 115 | -- | -- | | -- |
| DM-515-210 | BF | 1103.61 | 210 | -- | -- | 1013.33 | -- |
| EW-06 | U-SRG | 1097.57 | 61 | 111 | 112 | 1004.08 | 1.1 |
| EW-07 | U-SRG | 1104.99 | 78 | 128 | 129 | 1005.01 | 1.8 |
| EW-22D | BF | 1095.81 | 407 | 427 | 430 | 1009.15 | -- |
| EW-22S | U-SRG | 1095.72 | 58 | 108 | -- | 999.62 | -- |
| EW-SPZ1 | SRG* / BF | 1098.26 | 118 | 208 | -- | 1002.95 | -- |
| EW-M | SRG* / BF | 1103.61 | 86 | 206 | 233 | 983.30 | **48** |
| EW-N | SRG* / BF | 1110.78 | 100 | 220 | 240 | 970.88 | **21** |
| EW-S | SRG* / BF / BR | 1100.37 | 94 | 194 | 215 | 972.75 | **11** |
| NW-1 | U-SRG | 1112.22 | 90 | 110 | 211 | 1024.57 | 4.4 |
| NW-2 | L-SRG | 1101.87 | 173 | 193 | 212 | 1001.88 | -- |
| NW-3 | U-SRG | 1097.16 | 120 | 140 | 158 | 1001.87 | **7.0** |
| NW-4D | BF | 1099.92 | 182.5 | 202.5 | 221 | 1002.13 | < 1.0 |
| NW-4S | U-SRG | 1099.96 | 90 | 130 | 221 | 1001.81 | 3.2 |
| NW-5S | U-SRG | 1099.98 | 88 | 128 | 147 | 1001.74 | **9.9** |
| NW-6D | BF | 1096.92 | 181.5 | 201.5 | 217.5 | 1003.78 | -- |
| NW-6S | U-SRG | 1096.82 | 89.5 | 129.5 | 130 | 1002.02 | -- |
| NW-7D | BF | 1094.21 | 215 | 235 | 298 | 1007.06 | 3.9 |
| NW-7M | L-SRG | 1093.94 | 180 | 200 | -- | 1002.17 | **7.0** |
| NW-7S | U-SRG | 1094.19 | 89.5 | 129.5 | 130 | 1002.23 | < 1.0 |
| NW-8D | BF | 1098.72 | 224 | 244 | 248 | 1008.60 | -- |
| NW-8M | BF | 1098.65 | 175 | 195 | 195 | 1004.90 | -- |
| NW-8S | U-SRG | 1098.45 | 99 | 149 | 151 | 1002.94 | -- |
| NW-9D | BF | 1099.58 | 210 | 230 | 230 | 1004.38 | 4.2 |
| NW-9D2 | BF | 1099.58 | 240 | 260 | 270 | 1004.37 | 4.6 |
| NW-9M | L-SRG | 1099.42 | 170 | 190 | -- | 1005.47 | -- |
| NW-10D | BF | 1098.91 | 210 | 230 | 300 | 1004.89 | -- |
| NW-11D | BF | 1097.69 | 210 | 230 | 287 | 1003.90 | **16** |
| NW-11M | L-SRG | 1097.59 | 173 | 193 | 193 | 1004.09 | 3.6 |
| NW-12D | BF | 1104.10 | 225 | 245 | 300 | 1021.06 | -- |
| NW-13D | BF | 1096.11 | 215 | 235 | -- | 1003.28 | 4.4 |
| NW-13M | L-SRG | 1095.75 | 175 | 195 | -- | 1003.13 | < 1.0 |
| NW-14D | BF | 1099.62 | 215 | 235 | -- | 1003.47 | **5.7** |
| NW-14M | L-SRG | 1099.05 | 175 | 195 | -- | 1003.32 | < 1.0 |
| NW-15S | L-SRG | 1099.02 | -- | -- | -- | -- | -- |
| NW-16M | L-SRG | 1097.92 | 155 | 175 | -- | 1003.80 | -- |
| NW-16D | BF | 1097.96 | 220 | 230 | -- | 1003.38 | -- |
| NW-17S | CV | 1096.75 | 130 | 145 | -- | 1002.10 | **95** |
| NW-18S | U-SRG | 1094.78 | 90 | 130 | -- | 1001.89 | 4.7 |
| NW-18M | CV | 1094.92 | 170 | 190 | -- | 1001.98 | **53** |
| NW-19M | L-SRG | 1100.69 | 165 | 185 | -- | 1006.67 | 1.5 |
| NW-19D | BF | 1100.50 | 205 | 220 | -- | 1006.55 | **32** |
| PHXA-06 | U-SRG | 1100.84 | 50 | 140 | 205 | 1007.51 | -- |
| PZ-1D | BF | 1102.69 | 217 | 237 | | 1001.39 | -- |
| PZ-1S | U-SRG | 1102.41 | 99 | 119 | 258 | 1001.54 | -- |
| PZ-2D | BF | 1107.95 | 245 | 265 | | 1001.30 | -- |
| PZ-2S | U-SRG | 1107.92 | 125 | 145 | 269 | 1001.25 | -- |
| TEW-1 | U-SRG | 1103.47 | 100 | 145 | 160 | 1001.37 | -- |

**Notes:**

-- = no data
U-SRG = Upper Salt River Gravels Sub-unit
L-SRG = Lower Salt River Gravels Sub-unit
BF = Basin Fill Sub-unit
BR = Bedrock
CV = Colluvium
SRG* = Screened in U-SRG and L-SRG
bgs = below ground surface
µg/L = micrograms per liter

TCE = Trichloroethene
amsl = above mean sea level
**BOLD** = greater than or equal to the AWQS
AWQS = Arizona Water Quality Standards
[1]Unless otherwise noted with asterisk, revised stratigraphic zones are from Sitewide Lithology Table revised 26 July 2012.
Well construction, TCE, GW elevation data and data validation flags from *Data Transmittals* received from CRA and CH2MHill on 6/14/13 and 6/12/13, respectively.
Non-OU3 SRG is not typically broken into U-SRG and L-SRG divisions. Table 7 makes this distinction to facilitate the incorporation of non-OU3 data into Figures 3, 4, 6, and 7, which do distinguish between an Upper and Lower Salt River Gravels Sub-unit.

*Appendix A*
*Groundwater Sampling Field Forms*

DRAFT

Φ = Gauged on 3/4/13

*March 2013 Sampling Event*
*Draft - Groundwater Elevations Summary*
*Operable Unit 3 Study Area*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone | DTW (ft bgs) Date: 3/5/13 | DTW (ft bgs) 9/11/2012 | PID | TOC (ft amsl) | Bottom of Screen (ft bgs) | Total Depth (ft bgs) | Well Diameter (inches) | 9/12/2012 TCE (ug/L) | QA/QC | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Φ DT-DW-5 | U-SRG | 91.03 | 93.92 | 0.0 | 1077.9 | 99 | 99 | 2 | <0.50 | | bailer |
| Φ EWOU3-10S-R | U-SRG | 99.48 | 100.67 | 0.0 | 1081.62 | 100 | 102 | 4 | NS | | bailer |
| EW-13-118 | U-SRG | — | 89.33 | 0.0 | 1092.71 | 119.5 | 309 | 4 | <0.50 | Field Blank | |
| EW-13-168 | L-SRG | — | 88.85 | 0.0 | 1092.71 | 169.5 | – | 4 | <0.50 | level 4 | |
| EW-13-228 | Basin Fill | — | 87.7. | 0.0 | 1092.71 | 229.5 | – | 4 | 2.7 | | |
| EW-13-268 | Basin Fill | — | 87.31 | 0.0 | 1092.71 | 269.5 | – | 4 | <0.50 | | |
| EW-19D | Basin Fill | 82.41 | 83.85 | 0.0 | 1087.34 | 267 | 270 | 4 | <0.50 | | |
| EW-19S | U-SRG | 91.28 | 89.86 | 0.0 | 1087.32 | 107 | 112 | 4 | 11 | duplicate | |
| EW-20 | U-SRG | 97.50 | 96.39 | 0.0 | 1091.38 | 109 | 109 | 4 | 22 | | |
| EW-21 | U-SRG | 96.59 | 94.94 | 0.0 | 1094.24 | 108 | 108 | 4 | 0.67 | | |
| SC-MW-1D | U-SRG | | 90.5 | | 1092.39 | 123 | 125 | 4 | 1.4 | level 4 | fenced in |
| OU3-1D | Basin Fill | 85.29 | 97.49 | 0.0 | 1093.09 | 255 | 259 | 4 | <0.50 | level 4 | Gauged 3x by 2 people – |
| OU3-1M | L-SRG | 96.40 | 94.84 | 0.0 | 1093.3 | 160 | 162 | 4 | 2.8 | | |
| OU3-2M | L-SRG | 91.40 | 90.02 | 0.0 | 1087.997 | 170 | 175 | 4 | 24 | MS/MSD | 6 HCL voas and 4 -1 -liter ambers |
| OU3-4S | U-SRG | 95.75 | 94.03 | 0.1 | 1094.74 | 110 | 110 | 4 | <0.50 | level 4 | |
| OU3-6D | Basin Fill | 89.33 | 90.69 | 0.0 | 1083.77 | 250 | 261 | 4 | <0.50 | MS/MSD | 6 HCL voas and 4 -1 -liter ambers |
| OU3-6M | L-SRG | 92.72 | 92.98 | 0.0 | 1083.66 | 172 | 172.5 | 4 | 0.65 | level 4 | |
| OU3-7M2 | L-SRG | 92.29 | 91.21 | 0.0 | 1085.59 | 215 | 221 | 4 | 0.78 | dupelicate | |

99. 96

*March 2013 Sampling Event*
*Draft - Groundwater Elevations Summary*
*Operable Unit 3 Study Area*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone | DTW (ft bgs) Date: 3/5/13 | DTW (ft bgs) 9/11/2012 | PID | TOC (ft amsl) | Bottom of Screen (ft bgs) | Total Depth (ft bgs) | Well Diameter (inches) | 9/12/2012 TCE (ug/L) | QA/QC | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OU3-7S | U-SRG | 92.23 | 91.13 | 0.0 | 1085.29 | 110 | 112 | 4 | 0.87 | | |
| OU3-6D | Basin Fill | 91.41 | 94.77 | 0.0 | 1080 | 270 | 273 | 4 | <0.50 | level 4 | |
| OU3-8M2 | L-SRG | 95.07 | 96.45 | 0.0 | 1080.39 | 225.6 | 228 | 4 | 19 | duplicate | |
| OU3-8S | U-SRG | 95.29 | 96.75 | 0.2 | 1080.05 | 110.5 | 110.5 | 4 | 4.8 | MS/MSD | 6 HCL voas and 4 -1 -liter ambers |
| OU3-9S | U-SRG | 94.87 | 95.46 | 0.0 | 1080.55 | 110.2 | 110.5 | 4 | <0.50 | | |
| OU3-5M2 | L-SRG | 95.52 | 95.18 | 0.1 | 1087.24 | 222.7 | 253? | 4 | 61 | | |
| OU3-9M2 | L-SRG | 94.78 | 95.41 | 0.0 | 1080.74 | 229.7 | 235 | 4 | 1.2 | duplicate | |
| OU3-10M | L-SRG | 99.39 | 102.62 | 0.0 | 1082.25 | 166.7 | 170 | 4 | 7.6 | level 4 | |
| OU3-10M2 | L-SRG | 99.26 | 102.37 | 0.0 | 1082.29 | 219.2 | 225 | 4 | 23 | | |
| Ou3-11M | L-SRG | 90.55 | 92.33 | 0.0 | 1078.25 | 173.7 | 178 | 4 | <0.5 | duplicate | |
| OU3-11M2 | L-SRG | 90.40 | 92.19 | 0.0 | 1078.05 | 216.7 | 230 | 4 | <0.5 | | |
| OU3-11S | U-SRG | 90.51 | 92.3 | 0.0 | 1078.26 | 119.7 | 123 | 4 | <0.5 | | |
| OU3-12D | Basin Fill | 85.69 | 85.90 | 0.1 | 1090.77 | 265.6 | 396 | 4 | <0.5 | level 4 | |
| OU3-12M | L-SRG | 91.26 | 89.52 | 0.0 | 1090.79 | 166.7 | 170 | 4 | 1.4 | | |
| OU3-13D | Basin Fill | 92.81 | 92.15 | 0.0 | 1095.71 | 244.7 | 250 | 4 | <0.5 | level 4 | |
| OU3-13M | L-SRG | | 94.31 | | 1095.75 | 174.7 | 175 | 4 | 21 | duplicate | car on top |
| OU3-14D | Basin Fill | 96.87 | 97.06 | 0.1 | 1099.14 | 251.2 | 251.5 | 4 | <0.5 | | Pumps dry |
| OU3-14M | L-SRG | 96.99 | 95.15 | 0.0 | 1099.05 | 165.7 | 168 | 4 | <0.5 | level 4 | |
| OU3-5DR | Basin Fill | 89.98 | 91.6 | 0.0 | 1087.35 | 252.7 | 253 | 4 | <0.5 | | |
| OU3-5MR | L-SRG | 95.63 | 95.34 | 0.0 | 1087.37 | 168.7 | 169 | 4 | 34 | | |
| OU3-5SR | U-SRG | 95.50 | 95.09 | 0.2 | 1087.28 | 119.7 | 120 | 4 | 17 | | |
| OU3-10S | U-SRG | 98.94 | 102.19 | 0.1 | 1081.9 | 125 | 125 | 4 | 4.2 | duplicate | |

Φ = Gauged on 3/4/13

*March 2013 Sampling Event*
*Draft - Groundwater Elevations Summary*
*Operable Unit 3 Study Area*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well ID | Hydrostratigraphic Zone | DTW (ft bgs) Date: 3/5/13 | DTW (ft bgs) 9/11/2012 | PID | TOC (ft amsl) | Bottom of Screen (ft bgs) | Total Depth (ft bgs) | Well Diameter (inches) | *9/12/2012 TCE (ug/L)* | QA/QC | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OU3-16S | U-SRG | 98.69 | 101.21 | 0.0 | 1082.19 | 125 | 125 | 4 | 27 | | |
| OU3-16M | L-SRG | 98.83 | 101.42 | 0.0 | 1082.25 | 180 | 180 | 4 | 61 | | |
| OU3-17S | U-SRG | 88.98 | 88.52 | 0.3 | 1082.22 | 120 | 120 | 4 | 0.62 | level 4 | |
| OU3-19M | L-SRG | 91.52 | 89.78 | 0.0 | 1091.21 | 170 | 170 | 4 | 49 | | |
| Φ OU3-20S | U-SRG | 95.13 | 92.64 | 0.0 | 1100.2 | 115 | 115 | 4 | 1.2 | MS/MSD | 6 HCL voas and 4 -1 -liter ambers |
| Φ OU3-20M | L-SRG | 95.22 | 92.77 | 0.0 | 1100.12 | 180 | 180 | 4 | <0.5 | | |

**NG = not gauged on September 10 or 11, 2012**
**One field blank on day 1 for (8260 and 8270), One field blank at OU3-16M for all analysis (8260B, 8270, 625)**
**Equipment rinsate each day - test for 8260B and 8270 -1,4 dioxane**

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-13-268

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/4/13

Project Number: 0096498 Sample Time: 0907

Screened Interval: 265 Initial Depth to Water (ft): –

Measured Well Depth (ft): 304 Length of Water Column (ft): –

Well Inner Diameter (in): 4" 1 Well Volume (gal): –

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Arcadis / K Johnson (ERM) / Nacle (ERM) Sampler Affiliation: ERM

Purge Method/Equipment: West Bay Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
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Volume Purged Prior to Sample Collection: _____ Depth to Water during Sample Collection: _____

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x2 | -- |
| | | |
| | | |
| | | |

Remarks:

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-13 -228

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/4/13

Project Number: 0096498 Sample Time: 1005

Screened Interval: 22-95 Initial Depth to Water (ft): -

Measured Well Depth (ft): 305 Length of Water Column (ft): -

Well Inner Diameter (in): 4" 1 Well Volume (gal): -

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Arcadis/ Johnson (ERM) & Nagh Sampler Affiliation: ERM

Purge Method/Equipment: West Bay Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
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Volume Purged Prior to Sample Collection: _____ Depth to Water during Sample Collection: _____

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-13-168

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/4/13
Sample Time: 1600

Screened Interval: 169.5
Measured Well Depth (ft): 309
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): –
Length of Water Column (ft): –
1 Well Volume (gal): –

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Arcadis / Johnson (ERM) / Nagh (ERM)
Sampler Affiliation: ERM

Purge Method/Equipment: West Bay ~~Pump~~
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
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Volume Purged Prior to Sample Collection: _____

Depth to Water during Sample Collection: _____

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 2 | – |
| | | |
| | | |
| | | |

Remarks:

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-13-118

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/4/13

Project Number: 0096498 Sample Time: 1158

Screened Interval: 119.5 Initial Depth to Water (ft): –

Measured Well Depth (ft): 309 Length of Water Column (ft): –

Well Inner Diameter (in): 4" 1 Well Volume (gal): –

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Arcadis / Johnson (ERM) / Nagl (ERM) Sampler Affiliation: ERM

Purge Method/Equipment: WEST BAY Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
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Volume Purged Prior to Sample Collection: _____ Depth to Water during Sample Collection: _____

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x2 | – |
| | | |
| | | |
| | | |

Remarks:

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: DT-DW-5

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/4/13

Project Number: 0090488 Sample Time: 1458

Screened Interval: 99 Initial Depth to Water (ft): 91.03

Measured Well Depth (ft): 99 Length of Water Column (ft): 7.97

Well Inner Diameter (in): 4 1 Well Volume (gal): 5x3=15

| Water Volume/ft. for: |
|---|
| 1" diameter well = 0.041 x LWC |
| 2" diameter well = 0.163 x LWC |
| 4" diameter well = 0.653 x LWC |
| 6" diameter well = 1.469 x LWC |

Samplers: Ngb Sampler Affiliation: ERM

Purge Method/Equipment: Bailer

Stabilization Test Equipment: —

Sampling Method/Equipment: Bailer

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/4/13 | 1458 | 15 | | | | | | | |
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Volume Purged Prior to Sample Collection: 15 Depth to Water during Sample Collection:

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks:

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-11M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/6/2013
Sample Time: 0810

Screened Interval: 216
Measured Well Depth (ft): 230
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 90.35
Length of Water Column (ft): 139.65
1 Well Volume (gal): 91.2 x 3 = 273.6

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/6 | 0742 | 0 | 90.35 | 6.02 | 1.39 | 59.5 | 4.65 | 21.20 | 258 |
| | 0746 | ~~35~~ 40 | 97.15 | 6.58 | 1.32 | 60.8 | 3.95 | 22.14 | 217 |
| | 0750 | 80 | 97.23 | 6.73 | 1.31 | 21.5 | 3.71 | 21.65 | 203 |
| | 0754 | 120 | 97.23 | 6.74 | 1.29 | 22.3 | 3.04 | 22.06 | 197 |
| | 0758 | 160 | 97.23 | 6.83 | 1.28 | 9.3 | 2.92 | 22.12 | 194 |
| | 0802 | 200 | 97.23 | 6.88 | 1.28 | 3.6 | 2.60 | 22.96 | 174 |
| | 0806 | 240 | 97.23 | 6.87 | 1.28 | 2.8 | 2.62 | 22.98 | 174 |
| | 0810 | 275 | 97.23 | 6.89 | 1.27 | 2.7 | 2.63 | 22.89 | 172 |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 275
Depth to Water during Sample Collection: 97.23

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-11M2-M-030613 10gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3 - 11M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096478

Sample Date: 3/6/13
Sample Time: 0927

Screened Interval: 173
Measured Well Depth (ft): 178
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 90.55
Length of Water Column (ft): 87.45
1 Well Volume (gal): 57 x 3 = 171

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A. Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/6 | 0844 | 0 | 90.53 | 6.88 | 1.11 | 2.7 | 9.41 | 21.06 | 173 |
| | 0849 | 20 | 90.70 | 6.92 | 1.23 | 7.6 | 6.37 | 23.22 | 155 |
| | 0854 | 40 | 90.70 | 6.96 | 1.23 | 3.8 | 5.02 | 23.38 | 145 |
| | 0859 | 60 | 90.70 | 6.99 | 1.23 | 2.5 | 4.52 | 23.44 | 141 |
| | 0904 | 80 | 90.70 | 6.99 | 1.23 | 2.3 | 4.32 | 23.69 | 138 |
| | 0909 | 100 | 90.70 | 7.00 | 1.22 | 2.0 | 4.01 | 23.70 | 138 |
| | 0914 | 120 | 90.70 | 7.01 | 1.21 | 2.2 | 3.68 | 23.87 | 137 |
| | 0919 | 140 | 90.70 | 7.02 | 1.21 | 2.1 | 3.32 | 24.00 | 136 |
| | 0924 | 160 | 90.70 | 7.02 | 1.21 | 2.0 | 3.30 | 24.06 | 135 |
| | 0927 | 170 | 90.70 | 7.03 | 1.21 | 2.3 | 3.29 | 24.07 | 133 |

Volume Purged Prior to Sample Collection: 175
Depth to Water during Sample Collection: 90.70

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: Duplicate OU3-11M-M-030613
↳ OU3-11M-M-030613-Q1

4 gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-115

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3

Project Number: 0096498

Sample Date: 3/6/15

Sample Time: 1018

Screened Interval: 119

Measured Well Depth (ft): 123

Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 90.51

Length of Water Column (ft): 32.49

1 Well Volume (gal): 21.2 x 3 = 64

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A. Nagle

Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/6 | 0953 | 0 | 90.49 | ~~90.50~~ 6.88 AMN | 1.28 | 69.4 | 2.99 | 23.24 | 167 |
| | 0957 | 10 | 90.73 | 6.89 | 1.28 | 60.8 | 2.01 | 23.97 | 160 |
| | 1001 | 20 | 90.73 | 6.92 | 1.28 | 57.2 | 1.73 | 24.77 | 158 |
| | 1005 | 30 | 90.73 | 6.94 | 1.28 | 53.0 | 1.61 | 24.88 | 156 |
| | 1009 | 40 | 90.73 | 6.95 | 1.28 | 40.1 | 1.48 | 24.90 | 155 |
| | 1013 | 50 | 90.73 | 6.96 | 1.28 | 39.7 | 1.45 | 24.97 | 153 |
| | 1018 | 65 | 90.73 | 6.96 | 1.29 | 37.7 | 1.43 | 25.01 | 153 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 65

Depth to Water during Sample Collection: 90.73

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-115-S-030613 2.5 gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-12D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/6/13
Sample Time: 1235

Screened Interval: 265.6
Measured Well Depth (ft): 396
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 85.69
Length of Water Column (ft): 210.31
1 Well Volume (gal): 137 x 3 = 411

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A. Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/6 | 1153 | 0 | 85.60 | 6.94 | 1.45 | 29.7 | 3.67 | 23.70 | 201 |
| | 1157 | 45 | 95.21 | 7.11 | 1.45 | 15.6 | 2.95 | 24.47 | 184 |
| | 1202 | 90 | 95.21 | 7.12 | 1.47 | 14.3 | 2.95 | 24.45 | 180 |
| | 1206 | 135 | 95.21 | 7.14 | 1.50 | 12.9 | 2.96 | 24.49 | 175 |
| | 1211 | 180 | 95.21 | 7.16 | 1.56 | 10.8 | 2.97 | 24.56 | 172 |
| | 1215 | 225 | 95.21 | 7.18 | 1.57 | 5.6 | 2.97 | 24.53 | 172 |
| | 1220 | 270 | 95.21 | 7.19 | 1.58 | 4.3 | 2.97 | 24.52 | 173 |
| | 1224 | 315 | 95.21 | 7.19 | 1.58 | 3.8 | 2.97 | 24.55 | 174 |
| | 1229 | 360 | 95.21 | 7.20 | 1.59 | 2.2 | 2.96 | 24.61 | 174 |
| | 1235 | 411 | 95.21 | 7.21 | 1.59 | 1.9 | 2.96 | 24.60 | 174 |

Volume Purged Prior to Sample Collection: 411
Depth to Water during Sample Collection: 95.21

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: Level IV OU3-12D-D-030613 10 gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-12M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/6/13
Sample Time: 1339

Screened Interval: 166.70
Measured Well Depth (ft): 170
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 91.26
Length of Water Column (ft): 78.74
1 Well Volume (gal): 51×3 = 154

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: A. Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/6 | 1300 | 0 | 91.20 | 7.40 | 0.452 | 16.0 | 8.96 | 26.68 | 165 |
| | 1305 | 20 | 91.38 | 6.93 | 0.982 | 6.2 | 7.10 | 27.03 | 181 |
| | 1310 | 40 | 91.38 | 7.00 | 1.28 | 5.9 | 6.33 | 27.01 | 156 |
| | 1315 | 60 | 91.38 | 7.04 | 1.37 | 5.7 | 5.12 | 26.88 | 140 |
| | 1320 | 80 | 91.38 | 7.06 | 1.40 | 4.5 | 5.09 | 26.79 | 137 |
| | 1325 | 100 | 91.38 | 7.05 | 1.40 | 4.0 | 3.02 | 26.89 | 120 |
| | 1330 | 120 | 91.38 | 7.05 | 1.40 | 3.9 | 2.77 | 27.10 | 109 |
| | 1335 | 140 | 91.38 | 7.06 | 1.39 | 3.6 | 2.75 | 27.40 | 108 |
| | 1339 | 155 | 91.38 | 7.07 | 1.38 | 3.0 | 2.70 | 27.53 | 106 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 155

Depth to Water during Sample Collection: 91.38

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:
OU3-12M-M-030613
Equip Bank GW-EB2-030613

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: 043-6D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/7/13

Project Number: 0096498 Sample Time: 0903

Screened Interval: 250 Initial Depth to Water (ft): 89.33

Measured Well Depth (ft): 261 Length of Water Column (ft): 171.67

Well Inner Diameter (in): 4" 1 Well Volume (gal): 112 x 3 = 336

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: NgL Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| | 0829 | 0 | 89.24 | 6.72 | 1.93 | 270 | 4.43 | 22.08 | 219 |
| | 0833 | 40 | 94.07 | 6.95 | 1.96 | 16.6 | 3.95 | 22.49 | 198 |
| | 0837 | 80 | 94.07 | 6.96 | 1.97 | 15.4 | 3.92 | 22.38 | 197 |
| | 0841 | 120 | 94.07 | 6.92 | 1.94 | 9.8 | 3.91 | 22.49 | 200 |
| | 0845 | 160 | 94.07 | 7.03 | 1.95 | 7.7 | 3.50 | 22.59 | 190 |
| | 0849 | 200 | 94.07 | 7.08 | 1.95 | 6.8 | 3.46 | 22.63 | 184 |
| | 0853 | 240 | 94.07 | 7.09 | 1.95 | 6.8 | 3.01 | 22.03 | 179 |
| | 0857 | 280 | 94.07 | 7.09 | 1.96 | 7.1 | 2.87 | 21.94 | 172 |
| | 0901 | 320 | 94.07 | 7.10 | 1.96 | 6.9 | 2.85 | 21.80 | 170 |
| | 0903 | 340 | 94.07 | 7.10 | 1.95 | 6.6 | 2.83 | 21.74 | 170 |

Volume Purged Prior to Sample Collection: 340 Depth to Water during Sample Collection: 94.07

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: MS/MSD 043-6D-D-030713-MS/MSD 10spm

~~043-6D~~

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: GW3-6M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498
Sample Date: 3/7/13
Sample Time: 1014

Screened Interval: 172
Measured Well Depth (ft): 172.5
Well Inner Diameter (in): 4"
Initial Depth to Water (ft): 92.72
Length of Water Column (ft): 79.78
1 Well Volume (gal): 52x3 ~ 156

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/7 | 0935 | 0 | 92.70 | 7.07 | 1.63 | 73.7 | 2.63 | 20.61 | 190 |
| | 0940 | 20 | 92.75 | 7.17 | 1.50 | 66.9 | 1.59 | 22.69 | 175 |
| | 0945 | 40 | 92.75 | 7.25 | 1.41 | 50.1 | 1.29 | 23.50 | 169 |
| | 0950 | 60 | 92.75 | 7.20 | 1.38 | 49.1 | 1.01 | 23.58 | 169 |
| | 0955 | 80 | 92.75 | 7.18 | 1.38 | 47.6 | 0.95 | 23.69 | 169 |
| | 1000 | 100 | 92.75 | 7.16 | 1.37 | 43.4 | 0.90 | 23.73 | 169 |
| | 1005 | 120 | 92.75 | 7.14 | 1.37 | 23.8 | 0.80 | 23.98 | 167 |
| | 1010 | 140 | 92.75 | 7.13 | 1.37 | 22.5 | 0.79 | 24.15 | 165 |
| | 1014 | 156 | 92.75 | 7.14 | 1.37 | 18.4 | 0.78 | 24.20 | 165 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 156
Depth to Water during Sample Collection: 92.75

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: Level 4

4gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-7M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/7/13
Sample Time: 1129

Screened Interval: 215
Measured Well Depth (ft): 221
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 92.29
Length of Water Column (ft): 128.71
1 Well Volume (gal): 84 x 3 = 252

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/7 | 1113 | ~~92.34~~ 0 | 92.34 | 6.82 | 1.81 | 17.1 | 5.51 | 23.72 | 189 |
| | 1116 | 30 | 92.44 | 7.10 | 2.04 | 14.2 | 3.67 | 23.65 | 166 |
| | 1119 | 60 | 92.44 | 7.22 | 2.14 | 15.1 | 3.70 | 23.48 | 155 |
| | 1122 | 90 | 92.44 | 7.32 | 2.23 | 13.3 | 3.83 | 24.31 | 140 |
| | 1125 | 120 | 92.44 | 7.33 | 2.28 | 13.7 | 3.64 | 24.53 | 139 |
| | 1128 | 150 | 92.44 | 7.33 | 2.29 | 14.5 | 3.51 | 24.82 | 138 |
| | 1131 | 180 | 92.44 | 7.31 | 2.28 | 12.3 | 3.36 | 25.24 | 138 |
| | 1134 | 210 | 92.44 | 7.30 | 2.28 | 12.9 | 3.20 | 25.61 | 138 |
| | 1137 | 240 | 92.44 | 7.30 | 2.28 | 13.5 | 3.17 | 25.80 | 138 |
| | 1139 | 252 | 92.44 | 7.29 | 2.29 | 13.2 | 3.15 | 25.93 | 138 |

Volume Purged Prior to Sample Collection: 252
Depth to Water during Sample Collection: 92.44

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: OU3-7M2-M-030713

Duplicate OU3-7M2-M-030713-Q1

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-7s

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/7/13

Project Number: 0096498 Sample Time: 1249

Screened Interval: 110 Initial Depth to Water (ft): 92.23

Measured Well Depth (ft): 112 Length of Water Column (ft): 19.77

Well Inner Diameter (in): 4" 1 Well Volume (gal): 19 x 3 = 59

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| | 1209 | 0 | 92.19 | 6.98 | 2.04 | 10.2 | 3.17 | 28.30 | 155 |
| | 1214 | 5 | 92.68 | 7.07 | 2.34 | 10.5 | 3.21 | 27.01 | 154 |
| | 1219 | 10 | 92.68 | 7.10 | 2.54 | 10.1 | 3.38 | 26.84 | 152 |
| | 1224 | 15 | 92.68 | 7.05 | 2.54 | 10.0 | 3.21 | 26.89 | 151 |
| | 1229 | 20 | 92.68 | 7.04 | 2.54 | 10.1 | 3.08 | 26.88 | 150 |
| | 1234 | 25 | 92.68 | 7.05 | 2.55 | 10.0 | 3.00 | 26.87 | 149 |
| | 1239 | 30 | 92.68 | 7.05 | 2.55 | 9.7 | 2.99 | 26.89 | 149 |
| | 1244 | 35 | 92.68 | 7.04 | 2.55 | 9.8 | 2.95 | 26.85 | 148 |
| | 1249 | 40 | 92.68 | 7.04 | 2.55 | 9.7 | 2.91 | 26.80 | 148 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 40 Depth to Water during Sample Collection: 92.68

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-7s-S-030713 1 SPM

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-175

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/7/13
Sample Time: 1407

Screened Interval: 120
Measured Well Depth (ft): 120
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 88.98
Length of Water Column (ft): 31.02
1 Well Volume (gal): 20.2 x 3 = 60

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyk
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/7 | 1337 | 0 | 88.97 | 7.15 | 1.44 | 108 | 7.13 | 27.84 | 168 |
| | 1342 | 10 | 89.20 | 6.89 | 1.31 | 52.0 | 1.64 | 27.86 | 169 |
| | 1347 | 20 | 89.20 | 6.89 | 1.31 | 49.8 | 1.30 | 27.99 | 165 |
| | 1352 | 30 | 89.20 | 6.89 | 1.31 | 42.3 | 1.23 | 28.12 | 162 |
| | 1357 | 40 | 89.20 | 6.95 | 1.31 | 30.1 | 1.10 | 28.39 | 155 |
| | 1402 | 50 | 89.20 | 6.98 | 1.31 | 27.3 | 1.09 | 28.46 | 149 |
| | 1407 | 60 | 89.20 | 6.97 | 1.31 | 26.9 | 1.08 | 28.53 | 150 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 60
Depth to Water during Sample Collection: 89.20

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: Level 4 2pm

OU3-175-S-030713

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-4s

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498
Sample Date: 3/7/13
Sample Time: 1516

Screened Interval: 110
Measured Well Depth (ft): 110
Well Inner Diameter (in): 4"
Initial Depth to Water (ft): 95.75
Length of Water Column (ft): 14.25
1 Well Volume (gal): 9x3=28

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: NSG
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/7 | 1446 | 0 | 95.80 | 7.28 | 0.629 | 109 | 6.29 | 28.93 | 151 |
| | 1451 | 5 | 96.02 | 7.20 | 1.18 | 96.7 | 6.25 | 28.51 | 152 |
| | 1456 | 10 | 96.02 | 7.11 | 2.39 | 84.2 | 6.20 | 27.02 | 155 |
| | 1501 | 15 | 96.02 | 7.05 | 2.50 | 77.8 | 6.17 | 27.30 | 158 |
| | 1506 | 20 | 96.02 | 7.04 | 2.51 | 65.3 | 6.13 | 27.25 | 159 |
| | 1511 | 25 | 96.02 | 7.05 | 2.51 | 50.2 | 6.12 | 27.20 | 159 |
| | 1516 | 30 | 96.02 | 7.06 | 2.52 | 48.3 | 6.12 | 27.11 | 159 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 30
Depth to Water during Sample Collection: 96.02

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:
Level 4 1gpm
OU3-4s-s-030713
equipment blank GW-EB3-030713

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-9M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3

Project Number: 009648

Sample Date: 3/8/13

Sample Time: 0823

Screened Interval: 229.7

Measured Well Depth (ft): 235

Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 94.78

Length of Water Column (ft): 140.22

1 Well Volume (gal): 91.5 x 3 = 275

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nbyl

Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/8 | 0755 | 0 | 94.69 | 6.63 | 2.37 | 67.1 | 5.63 | 22.59 | 221 |
| | 0759 | 40 | 95.51 | 6.74 | 2.37 | 20.8 | 5.94 | 22.66 | 210 |
| | 0803 | 80 | 95.51 | 6.78 | 2.37 | 20.4 | 5.51 | 22.50 | 208 |
| | 0807 | 120 | 95.51 | 6.80 | 2.36 | 17.1 | 5.31 | 22.43 | 205 |
| | 0811 | 160 | 95.51 | 6.86 | 2.36 | 10.2 | 4.20 | 22.23 | 199 |
| | 0815 | 200 | 95.51 | 6.87 | 2.36 | 4.4 | 4.15 | 22.18 | 198 |
| | 0819 | 240 | 95.51 | 6.88 | 2.35 | 4.1 | 4.07 | 22.07 | 197 |
| | 0823 | 275 | 95.51 | 6.89 | 2.34 | 4.6 | 4.01 | 22.01 | 196 |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 275

Depth to Water during Sample Collection: 95.51

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-9M2-M-030813 10 pm

duplicate OU3-9M2-M-030813-Q1

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: Ou3-9s

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/8/13
Sample Time: 0930

Screened Interval: 110.2
Measured Well Depth (ft): 110.5
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 94.87
Length of Water Column (ft): 15.63
1 Well Volume (gal): 10 x 3 = 30

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nayla
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/8 | 0900 | 0 | 94.90 | 7.15 | 2.22 | 63.1 | 8.02 | 19.37 | 195 |
| | 0905 | 5 | 94.98 | 7.00 | 2.40 | 38.7 | 3.88 | 20.51 | 194 |
| | 0910 | 10 | 94.98 | 6.93 | 2.56 | 26.3 | 3.25 | 23.71 | 193 |
| | 0915 | 15 | 94.98 | 6.96 | 2.56 | 15.9 | 2.75 | 23.88 | 192 |
| | 0920 | 20 | 94.98 | 6.98 | 2.57 | 12.1 | 2.71 | 23.90 | 190 |
| | 0925 | 25 | 94.98 | 6.97 | 2.57 | 7.8 | 2.75 | 23.92 | 190 |
| | 0930 | 30 | 94.98 | 6.97 | 2.57 | 6.7 | 2.78 | 23.95 | 190 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 30

Depth to Water during Sample Collection: 94.98

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-9s-S-030813

Ign

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-8D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498
Sample Date: 3/8/13
Sample Time: 1052

Screened Interval: 270
Measured Well Depth (ft): 273
Well Inner Diameter (in): 4"
Initial Depth to Water (ft): 91.41
Length of Water Column (ft): 181.59
1 Well Volume (gal): 118.5 x 3 = 355

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/8 | 1028 | 0 | 91.38 | 7.06 | 1.34 | 25.7 | 3.54 | 22.12 | 159 |
| | 1032 | 40 | 93.56 | 7.24 | 1.31 | 24.6 | 3.00 | 22.40 | 190 |
| | 1036 | 80 | 93.56 | 7.40 | 1.31 | 12.7 | 2.68 | 22.47 | 183 |
| | 1040 | 120 | 93.56 | 7.44 | 1.31 | 4.2 | 2.62 | 22.50 | 180 |
| | 1044 | 160 | 93.56 | 7.44 | 1.31 | 3.9 | 2.44 | 22.53 | 179 |
| | 1048 | 200 | 93.56 | 7.43 | 1.31 | 4.3 | 2.20 | 22.55 | 179 |
| | 1042 | 240 | 93.56 | 7.42 | 1.31 | 4.5 | 2.11 | 22.57 | 179 |
| | 1046 | 280 | 93.56 | 7.42 | 1.30 | 4.9 | 2.09 | 22.61 | 177 |
| | 1050 | 320 | 93.56 | 7.43 | 1.30 | 4.6 | 2.08 | 22.69 | 177 |
| | 1052 | 360 | 93.56 | 7.43 | 1.31 | 3.8 | 2.06 | 22.70 | 177 |

Volume Purged Prior to Sample Collection: 360
Depth to Water during Sample Collection: 93.56

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: level 4 OU3-8D-D-030813

10 gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-8M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/8/13
Sample Time: 1207

Screened Interval: 225.6
Measured Well Depth (ft): 228
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 95.07
Length of Water Column (ft): 132.93
1 Well Volume (gal): 87x3=260

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/8 | 1140 | 0 | 95.05 | 7.02 | 1.45 | 8.4 | 2.13 | 22.23 | 190 |
| | 1143 | 30 | 96.40 | 7.03 | 1.47 | 7.9 | 2.05 | 23.21 | 189 |
| | 1146 | 60 | 96.40 | 7.06 | 1.48 | 7.1 | 1.91 | 23.20 | 185 |
| | 1149 | 90 | 96.40 | 7.08 | 1.59 | 6.7 | 1.38 | 23.25 | 181 |
| | 1152 | 120 | 96.40 | 7.09 | 1.62 | 5.9 | 1.23 | 23.22 | 179 |
| | 1155 | 150 | 96.40 | 7.10 | 1.65 | 6.0 | 1.15 | 23.25 | 177 |
| | 1158 | 180 | 96.40 | 7.10 | 1.69 | 6.2 | 1.12 | 23.27 | 175 |
| | 1201 | 210 | 96.40 | 7.12 | 1.73 | 6.4 | 1.07 | 23.30 | 173 |
| | 1204 | 240 | 96.40 | 7.12 | 1.74 | 6.3 | 1.05 | 23.34 | 173 |
| | 1207 | 260 | 96.40 | 7.14 | 1.74 | 6.0 | 1.03 | 23.36 | 171 |

Volume Purged Prior to Sample Collection: 260
Depth to Water during Sample Collection: 96.40

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-8M2-M-030813 10:00

duplicate OU3-8M2-M-030813-Q1

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-8S

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/8/13

Project Number: 0096498 Sample Time: 1245

Screened Interval: 110.5 Initial Depth to Water (ft): 95.29

Measured Well Depth (ft): 110.5 Length of Water Column (ft): 15.21

Well Inner Diameter (in): 4" 1 Well Volume (gal): 10 x 3 = 30

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/8 | 1230 | 0 | 95.50 | 7.04 | 2.11 | 4.1 | 4.38 | 22.89 | 183 |
| | 1232 | 5 | 95.62 | 6.99 | 2.36 | 4.2 | 3.76 | 23.63 | 180 |
| | 1235 | 10 | 95.62 | 6.99 | 2.36 | 3.8 | 3.69 | 23.69 | 179 |
| | 1237 | 15 | 95.62 | 6.98 | 2.37 | 3.9 | 3.40 | 23.75 | 178 |
| | 1240 | 20 | 95.62 | 7.01 | 2.36 | 4.1 | 3.22 | 23.79 | 178 |
| | 1242 | 25 | 95.62 | 7.01 | 2.37 | 4.3 | 3.20 | 23.84 | 175 |
| | 1245 | 30 | 95.62 | 7.00 | 2.38 | 4.0 | 3.17 | 23.86 | 175 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 30 Depth to Water during Sample Collection: 95.62

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: equip blank GW-EB4-030813 2pm

MS/MSD OU3-8S-S-030813-MS/MSD

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-21

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/11/13
Sample Time: 0932

Screened Interval: 108
Measured Well Depth (ft): 108
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 96.59
Length of Water Column (ft): 11.41
1 Well Volume (gal): 7.5 x 3 = 22

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Ngk
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/11 | 0915 | 0 | 96.59 | 6.47 | 2.48 | 212 | 5.40 | 21.36 | 209 |
| | 0920 | 5 | 96.71 | 7.20 | 2.73 | 18.9 | 3.70 | 24.59 | 154 |
| | 0925 | 10 | 96.71 | 7.23 | 2.72 | 8.2 | 3.52 | 24.53 | 146 |
| | 0930 | 15 | 96.71 | 7.24 | 2.71 | 7.1 | 3.50 | 24.49 | 146 |
| | 0932 | 22 | 96.71 | 7.22 | 2.70 | 3.2 | 3.49 | 24.53 | 147 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 22

Depth to Water during Sample Collection: 96.71

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: EW-21-S-031113 1gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-16M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498
Sample Date: 3/11/12
Sample Time: 1118

Screened Interval: 180
Measured Well Depth (ft): 180
Well Inner Diameter (in): 4"
Initial Depth to Water (ft): 98.83
Length of Water Column (ft): 81.17
1 Well Volume (gal): 53 × 3 = 160

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/11 | 1040 | 0 | 98.72 | 6.85 | 2.20 | 31.9 | 3.64 | 23.25 | 183 |
| | 1050 | 20 | 100.40 | 6.99 | 2.03 | 30.5 | 2.87 | 23.66 | 152 |
| | 1054 | 40 | 100.40 | 7.03 | 1.95 | 27.3 | 1.99 | 24.02 | 100 |
| | 1058 | 60 | 100.40 | 7.04 | 1.83 | 22.1 | 1.78 | 24.37 | 97 |
| | 1102 | 80 | 100.40 | 7.05 | 1.83 | 20.2 | 1.75 | 24.36 | 96 |
| | 1106 | 100 | 100.40 | 7.06 | 1.83 | 17.1 | 1.71 | 24.35 | 92 |
| | 1110 | 120 | 100.40 | 7.06 | 1.83 | 13.8 | 1.60 | 24.30 | 89 |
| | 1114 | 140 | 100.40 | 7.07 | 1.83 | 11.2 | 1.59 | 24.28 | 84 |
| | 1118 | 160 | 100.40 | 7.07 | 1.83 | 10.1 | 1.57 | 24.26 | 84 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 160
Depth to Water during Sample Collection: 100.40

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: MS/MSD & Level 4 5gpm

OU3-16M-M-031113-MS/MSD

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-16S

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/11/13

Project Number: 0086498 Sample Time: 1154

Screened Interval: 125 Initial Depth to Water (ft): 98.69

Measured Well Depth (ft): 125 Length of Water Column (ft): 27.31

Well Inner Diameter (in): 4" 1 Well Volume (gal): 18 x 3 = 54

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/11 | 1127 | 0 | 99.70 | 7.53 | 0.215 | 26.2 | 5.44 | 22.86 | 109 |
| | 1132 | 10 | 99.79 | 7.40 | 0.998 | 20.8 | 3.02 | 24.11 | 127 |
| | 1137 | 20 | 99.83 | 7.09 | 1.02 | 11.7 | 2.84 | 25.38 | 130 |
| | 1142 | 30 | 99.85 | 7.07 | 1.83 | 4.0 | 2.78 | 25.56 | 133 |
| | 1147 | 40 | 99.85 | 7.09 | 1.83 | 2.8 | 2.76 | 25.57 | 131 |
| | 1154 | 55 | 99.85 | 7.10 | 1.83 | 1.2 | 2.75 | 25.58 | 130 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 55 Depth to Water during Sample Collection: 99.85

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:

~~OU3-16S-031113~~

OU3-16S-S-031113

dup → OU3-16S-S-031113-Q1

equip blank 2pm

GW-EB5-031113 1205

Field blank

GW-RI-1-031113 1216

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-10M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/11/13
Sample Time: 1447

Screened Interval: 219.2
Measured Well Depth (ft): 225
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 99.26
Length of Water Column (ft): 125.75
1 Well Volume (gal): 82 x 3 = 246

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/11 | 1421 | 0 | 99.16 | 6.90 | 1.52 | 32.3 | 3.23 | 25.97 | 181 |
| | 1424 | 30 | 101.90 | 6.89 | 1.52 | 32.7 | 2.93 | 25.56 | 175 |
| | 1427 | 60 | 101.90 | 6.88 | 1.53 | 32.5 | 2.08 | 25.28 | 170 |
| | 1430 | 90 | 101.90 | 6.89 | 1.54 | 31.5 | 1.99 | 24.93 | 124 |
| | 1433 | 120 | 101.90 | 6.90 | 1.55 | 30.7 | 1.75 | 24.85 | 124 |
| | 1436 | 150 | 101.90 | 6.90 | 1.55 | 29.3 | 1.73 | 24.75 | 123 |
| | 1439 | 180 | 101.90 | 6.91 | 1.55 | 27.2 | 1.22 | 24.70 | 119 |
| | 1442 | 210 | 101.90 | 6.92 | 1.55 | 25.1 | 1.21 | 24.69 | 118 |
| | 1447 | 246 | 101.90 | 6.93 | 1.54 | 24.3 | 1.20 | 24.64 | 117 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 246
Depth to Water during Sample Collection: 101.90

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: OU3-10M2-M-031113 10,m

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-10S-~~[illegible]~~

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498
Sample Date: 3/11/13
Sample Time: 1529

Screened Interval: 125
Measured Well Depth (ft): 125
Well Inner Diameter (in): 4"
Initial Depth to Water (ft): 98.94
Length of Water Column (ft): 26.06
1 Well Volume (gal): 17x3=51

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/11 | 1503 | 0 | 98.89 | 7.11 | 1.54 | 134 | 1.04 | 25.45 | 94 |
| | 1508 | 10 | 100.02 | 7.19 | 1.54 | 103 | 1.79 | 25.82 | 100 |
| | 1513 | 20 | 100.02 | 7.24 | 1.53 | 89.2 | 1.80 | 26.40 | 109 |
| | 1518 | 30 | 100.02 | 7.25 | 1.53 | 71.4 | 1.89 | 26.46 | 110 |
| | 1523 | 40 | 100.02 | 7.21 | 1.53 | 11.7 | 1.89 | 26.59 | 116 |
| | 1529 | 51 | 100.02 | 7.20 | 1.53 | 10.6 | 1.88 | 26.64 | 111 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 51
Depth to Water during Sample Collection: 100.02

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:
OU3-10S-S-031113
dup OU3-10S-S-031113-Q1
~~[illegible]~~ 2:30pm
~~[illegible]~~

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-10M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 8/11/13

Project Number: 0096498 Sample Time: 1558

Screened Interval: 166.7 Initial Depth to Water (ft): 99.39

Measured Well Depth (ft): 170 Length of Water Column (ft): 70.61

Well Inner Diameter (in): 4" 1 Well Volume (gal): 46x3=138

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 8/11 | 1533 | 0 | 99.30 | 6.96 | 1.49 | 387 | 1.14 | 26.42 | 152 |
| | 1534 | 20 | 99.39 | 6.92 | 1.49 | 211 | 1.39 | 26.41 | 151 |
| | 1538 | 40 | 99.39 | 6.90 | 1.49 | 102 | 1.39 | 26.40 | 152 |
| | 1542 | 60 | 99.39 | 6.89 | 1.49 | 42.8 | 1.41 | 26.39 | 153 |
| | 1546 | 80 | 99.39 | 6.84 | 1.50 | 35.7 | 1.43 | 26.37 | 154 |
| | 1550 | 100 | 99.39 | 6.81 | 1.50 | 29.6 | 1.45 | 26.35 | 154 |
| | 1554 | 120 | 99.39 | 6.80 | 1.50 | 18.2 | 1.45 | 26.48 | 153 |
| | 1558 | 140 | 99.39 | 6.80 | 1.51 | 16.0 | 1.45 | 26.66 | 152 |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 140 Depth to Water during Sample Collection: 99.39

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:

level 4
OU3-10M-M031113

Equip blank
GW-EB6-031113 1605

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5DR

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/12/13
Sample Time: 0850

Screened Interval: 252-7
Measured Well Depth (ft): 253
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 89.98
Length of Water Column (ft): 163
1 Well Volume (gal): 106 x 3 = 318

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyl
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/12 | 0818 | 0 | 90.20 | 6.97 | 1.07 | 49.8 | 3.12 | 19.79 | 170 |
| | 0822 | 40 | 99.68 | 7.00 | 1.62 | 35.0 | 3.11 | 20.01 | 101 |
| | 0826 | 80 | 99.68 | 7.20 | 1.80 | 27.8 | 3.10 | 21.90 | 69 |
| | 0830 | 120 | 99.68 | 7.22 | 1.88 | 22.6 | 3.06 | 22.60 | 65 |
| | 0834 | 160 | 99.68 | 7.23 | 1.88 | 21.0 | 2.69 | 22.61 | 62 |
| | 0838 | 200 | 99.68 | 7.24 | 1.88 | 17.9 | 2.64 | 22.63 | 60 |
| | 0842 | 240 | 99.68 | 7.24 | 1.88 | 9.1 | 2.62 | 22.71 | 60 |
| | 0846 | 280 | 99.68 | 7.25 | 1.88 | 7.8 | 2.60 | 22.80 | 59 |
| | 0850 | 320 | 99.68 | 7.25 | 1.87 | 5.6 | 2.59 | 22.83 | 59 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 320
Depth to Water during Sample Collection: 99.68

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks: 10 gpm

OU3-5DR-D-031213

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5MR

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/12/13
Sample Time: 1014

Screened Interval: 168
Measured Well Depth (ft): 169
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 95.63
Length of Water Column (ft): 73.37
1 Well Volume (gal): 48×3 = 144

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/12 | 0938 | 0 | 95.70 | 6.87 | 1.88 | 602 | 2.59 | 22.04 | 134 |
| | 0943 | 20 | 95.82 | 7.19 | 1.88 | 102 | 2.60 | 23.08 | 111 |
| | 0948 | 40 | 95.82 | 7.26 | 1.89 | 82.4 | 2.61 | 24.64 | 105 |
| | 0953 | 60 | 95.82 | 7.20 | 1.89 | 15.9 | 2.59 | 24.70 | 115 |
| | 0958 | 80 | 95.82 | 7.17 | 1.88 | 7.7 | 2.54 | 24.76 | 117 |
| | 1003 | 100 | 95.82 | 7.15 | 1.88 | 6.5 | 2.50 | 24.77 | 119 |
| | 1008 | 120 | 95.82 | 7.14 | 1.88 | 4.9 | 2.49 | 24.78 | 119 |
| | 1014 | 144 | 95.82 | 7.14 | 1.89 | 3.5 | 2.49 | 24.79 | 118 |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 144
Depth to Water during Sample Collection: 95.82

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| | | |
| | | |
| | | |

Remarks:

OU3-5MR-M-031213

2gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5SR

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/12/13

Project Number: 0096498 Sample Time: 1133

Screened Interval: 119 Initial Depth to Water (ft): 95.50

Measured Well Depth (ft): 120 Length of Water Column (ft): 24.5

Well Inner Diameter (in): 4" 1 Well Volume (gal): 16 x 3 = 48

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nag L Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/12 | 1043 | 0 | 95.54 | 7.03 | 1.80 | 206 | 5.75 | 23.46 | 159 |
| | 1053 | 10 | 95.62 | 7.06 | 1.85 | 105 | 2.05 | 23.05 | 174 |
| | 1103 | 20 | 95.62 | 6.96 | 1.86 | 95.1 | 1.64 | 23.16 | 175 |
| | 1113 | 30 | 95.62 | 6.95 | 1.84 | 35.8 | 1.60 | 23.20 | 176 |
| | 1123 | 40 | 95.62 | 6.95 | 1.84 | 32.1 | 1.60 | 23.23 | 176 |
| | 1133 | 50 | 95.62 | 6.94 | 1.83 | 31.7 | 1.59 | 23.25 | 176 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 50 Depth to Water during Sample Collection: 95.62

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| 625 | | |
| | | |
| | | |

Remarks:

OU3-5SR-S-031213

equip blank
GW-EB7-031213 1145

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-5M2

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096x98

Sample Date: 3/12/13
Sample Time: 1400

Screened Interval: 222
Measured Well Depth (ft): 253
Well Inner Diameter (in): 4"

Initial Depth to Water (ft): 95.52
Length of Water Column (ft): 157.48
1 Well Volume (gal): 102.83 x 3 = 306

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/12 | 1327 | 0 | 95.50 | 6.95 | 1.70 | 38.7 | 3.78 | 24.11 | 132 |
| | 1331 | 40 | 95.72 | 6.96 | 1.75 | 30.7 | 2.99 | 24.33 | 120 |
| | 1335 | 80 | 95.72 | 6.98 | 1.79 | 29.6 | 2.33 | 24.41 | 119 |
| | 1339 | 120 | 95.72 | 6.98 | 1.80 | 25.3 | 2.11 | 25.55 | 118 |
| | 1343 | 160 | 95.72 | 6.99 | 1.83 | 23.2 | 2.06 | 24.58 | 117 |
| | 1347 | 200 | 95.72 | 7.05 | 1.84 | 11.3 | 2.02 | 24.63 | 117 |
| | 1351 | 240 | 95.72 | 7.06 | 1.85 | 9.1 | 2.01 | 24.60 | 116 |
| | 1355 | 280 | 95.72 | 7.07 | 1.85 | 8.2 | 1.99 | 24.69 | 116 |
| | 1400 | 306 | 95.72 | 7.07 | 1.86 | 5.6 | 1.96 | 24.77 | 115 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 306
Depth to Water during Sample Collection: 95.72

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| 625 | | |
| | | |
| | | |

Remarks: OU3-5M2-M-031213 level 4 10 gpm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-19M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/13/13

Project Number: 0086488 Sample Time: 0854

Screened Interval: 170 Initial Depth to Water (ft): 91.52

Measured Well Depth (ft): 170 Length of Water Column (ft): 78.48

Well Inner Diameter (in): 4" 1 Well Volume (gal): 51 x 3 = 153

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyh Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/13 | 0734 | 0 | 91.71 | 6.93 | 1.79 | 20.0 | 2.21 | 23.01 | 193 |
| | 0744 | 20 | 91.78 | 6.56 | 1.76 | 754 | 1.80 | 23.98 | 194 |
| | 0754 | 40 | 91.78 | 6.69 | 1.75 | 551 | 1.60 | 23.99 | 182 |
| | 0804 | 60 | 91.78 | 6.70 | 1.75 | 308 | 1.35 | 24.01 | 164 |
| | 0814 | 80 | 91.78 | 6.73 | 1.75 | 146 | 1.27 | 24.41 | 158 |
| | 0824 | 100 | 91.78 | 6.99 | 1.74 | 22.7 | 0.98 | 24.87 | 130 |
| | 0834 | 120 | 91.78 | 7.10 | 1.73 | 14.1 | 0.30 | 25.01 | 127 |
| | 0844 | 140 | 91.78 | 7.12 | 1.73 | 12.8 | 0.29 | 25.13 | 126 |
| | 0854 | 153 | 91.78 | 7.14 | 1.72 | 10.1 | 0.27 | 25.47 | 125 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 153 Depth to Water during Sample Collection: 91.78

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | – |
| 625 | | |
| | | |
| | | |

Remarks: 2gpm

OU3-RM-M-031313

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-20

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498
Sample Date: 3/13/13
Sample Time: 0949

Screened Interval: 109
Measured Well Depth (ft): 109
Well Inner Diameter (in): 4"
Initial Depth to Water (ft): 97.50
Length of Water Column (ft): 11.5
1 Well Volume (gal): 7.5x3=23

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horriba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/13 | 0924 | 0 | 97.48 | 6.80 | 2.17 | 511 | 3.75 | 23.76 | 166 |
| | 0929 | 5 | 98.10 | 6.79 | 2.20 | 202 | 2.70 | 24.81 | 166 |
| | 0934 | 10 | 98.11 | 6.79 | 2.29 | 16.9 | 2.61 | 25.67 | 166 |
| | 0939 | 15 | 98.11 | 6.80 | 2.29 | 11.1 | 2.60 | 25.69 | 165 |
| | 0944 | 20 | 98.11 | 6.82 | 2.29 | 10.8 | 2.59 | 25.70 | 165 |
| | 0949 | 25 | 98.11 | 6.83 | 2.28 | 8.4 | 2.57 | 25.71 | 164 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 25
Depth to Water during Sample Collection: 98.11

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| EPA 625 | | |
| | | |
| | | |

Remarks: EW-20-S-031313 equip blank 1300
GW-EB8-031313 1000

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-14M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/13/13

Project Number: 0096498 Sample Time: 1325

Screened Interval: ~~[illegible]~~ 165 Initial Depth to Water (ft): 96.99

Measured Well Depth (ft): 168 Length of Water Column (ft): 71.01

Well Inner Diameter (in): 4" 1 Well Volume (gal): 46 x 3 = 140

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/13 | 1215 | 0 | 97.03 | 7.34 | 2.16 | >800 | 3.09 | 26.32 | 113 |
| | 1225 | 20 | 98.17 | 6.86 | 2.54 | 208 | 1.31 | 25.33 | 123 |
| | 1235 | 40 | 98.25 | 7.00 | 2.66 | 37.2 | 1.50 | 25.31 | 113 |
| | 1245 | 60 | 98.25 | 6.89 | 2.66 | 22.3 | 1.47 | 25.33 | 115 |
| | 1255 | 80 | 98.25 | 6.86 | 2.66 | 10.1 | 1.43 | 25.37 | 117 |
| | 1305 | 100 | 98.25 | 6.85 | 2.67 | 8.4 | 1.42 | 25.38 | 118 |
| | 1315 | 120 | 98.25 | 6.86 | 2.66 | 5.7 | 1.42 | 25.40 | 117 |
| | 1325 | 140 | 98.25 | 6.87 | 2.66 | 3.4 | 1.42 | 25.47 | 117 |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 140 Depth to Water during Sample Collection: 98.25

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: level IV 2pm

OU3-14M-N-031313

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-14D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/13/13

Project Number: 0096498 Sample Time: 1375

Screened Interval: 251 Initial Depth to Water (ft): 96.87

Measured Well Depth (ft): 251 Length of Water Column (ft): 157.13

Well Inner Diameter (in): 4 1 Well Volume (gal): 100x3=300

| Water Volume/ft. for: |
|---|
| 1" diameter well = 0.041 x LWC |
| 2" diameter well = 0.163 x LWC |
| 4" diameter well = 0.653 x LWC |
| 6" diameter well = 1.469 x LWC |

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horiba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/13 | 1115 | 0 | 95.01 | 7.11 | 2.04 | 120 | 4.11 | 24.28 | 147 |
| | 1119 | 40 | 102.64 | 7.11 | 2.01 | 90.2 | 3.07 | 24.58 | 77 |
| | 1123 | 80 | 148.22 | 7.12 | 2.00 | 70.1 | 1.88 | 24.77 | 69 |
| | 1127 | 120 | 225.62 | 7.12 | 1.98 | 65.3 | 1.86 | 24.84 | 68 |
| | 1131 | 156 | 237.16 | DRY | @ 156 gal | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 156 Depth to Water during Sample Collection: 98.21

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: OU3-14D-B-03313 1gm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-1M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/13/13

Project Number: 0096498 Sample Time: 1537

Screened Interval: 160 Initial Depth to Water (ft): 96.40

Measured Well Depth (ft): 162 Length of Water Column (ft): 65.6

Well Inner Diameter (in): 4" 1 Well Volume (gal): ~~65.3 x 1.95~~ 43 x 3 = 130

| Water Volume/ft. for: |
|---|
| 1" diameter well = 0.041 x LWC |
| 2" diameter well = 0.163 x LWC |
| 4" diameter well = 0.653 x LWC |
| 6" diameter well = 1.469 x LWC |

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horriba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/13 | 1427 | 0 | 96.43 | 6.85 | 2.47 | 130 | 5.97 | 26.57 | 171 |
| | 1437 | 20 | 96.46 | 6.86 | 2.54 | 15.2 | 4.74 | 25.36 | 166 |
| | 1447 | 40 | 96.49 | 6.90 | 2.54 | 17.8 | 3.82 | 25.33 | 162 |
| | 1457 | 60 | 96.49 | 6.91 | 2.55 | 22.0 | 3.56 | 25.30 | 160 |
| | 1507 | 80 | 96.49 | 6.97 | 2.50 | 17.1 | 3.00 | 27.06 | 157 |
| | 1517 | 100 | 96.49 | 6.98 | 2.49 | 12.8 | 2.60 | 28.71 | 155 |
| | 1527 | 120 | 96.48 | 6.98 | 2.48 | 11.2 | 2.57 | 29.36 | 154 |
| | 1537 | 130 | 96.49 | 6.98 | 2.48 | 10.4 | 2.56 | 29.92 | 153 |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 130 Depth to Water during Sample Collection: 96.49

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: OU3-1M-M-031313 2gpm

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EW-EB9-031313 1545

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-20S

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096428

Sample Date: 3/14/13
Sample Time: 0817

Screened Interval: 115
Measured Well Depth (ft): 115
Well Inner Diameter (in): 4

Initial Depth to Water (ft): 95.13
Length of Water Column (ft): 19.87
1 Well Volume (gal): 13 x 3 = 39

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nyle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horiba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/14 | 0757 | 0 | 95.11 | 6.47 | 1.45 | 200 | 5.58 | 24.85 | 224 |
| | 0802 | 10 | 95.37 | 6.48 | 1.40 | 30.8 | 5.68 | 25.11 | 220 |
| | 0807 | 20 | 95.38 | 6.49 | 1.38 | 20.9 | 3.45 | 26.00 | 219 |
| | 0812 | 30 | 95.38 | 6.49 | 1.38 | 11.1 | 3.01 | 26.30 | 218 |
| | 0817 | 40 | 95.38 | 6.50 | 1.39 | 10.8 | 3.00 | 26.44 | 217 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 40
Depth to Water during Sample Collection: 95.38

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks:

MS/MSD 2pm

OU3-20S-S-031413-MS/MSD

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-20M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/14/13

Project Number: 0096498 Sample Time: 1000

Screened Interval: 180 Initial Depth to Water (ft): 95.22

Measured Well Depth (ft): 180 Length of Water Column (ft): 84.78

Well Inner Diameter (in): 4 1 Well Volume (gal): 55 x 3 = 166

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: NJL Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horiba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/14 | 0840 | 0 | 95.20 | 6.79 | 1.33 | 107 | 7.07 | 25.94 | 175 |
| | 0880 | 20 | 96.11 | 6.85 | 1.32 | 98.6 | 5.68 | 25.97 | 160 |
| | 0900 | 40 | 96.11 | 6.87 | 1.32 | 77.2 | 4.59 | 26.07 | 150 |
| | 0910 | 60 | 96.11 | 6.90 | 1.32 | 46.7 | 3.02 | 26.19 | 130 |
| | 0920 | 80 | 96.11 | 6.95 | 1.32 | 30.8 | 2.55 | 26.28 | 122 |
| | 0930 | 100 | 96.11 | 6.95 | 1.32 | 20.1 | 2.50 | 26.44 | 121 |
| | 0940 | 120 | 96.11 | 6.95 | 1.32 | 12.9 | 2.45 | 26.50 | 121 |
| | 0950 | 140 | 96.11 | 6.95 | 1.31 | 10.8 | 2.41 | 26.60 | 120 |
| | 1000 | 166 | 96.11 | 6.96 | 1.31 | 5.8 | 2.39 | 26.64 | 120 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 166 Depth to Water during Sample Collection:

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: 2gpm

OU3-20M-M-031413

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-1D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/12/13

Project Number: 0096498 Sample Time: 1141

Screened Interval: 255 Initial Depth to Water (ft): 85.29

Measured Well Depth (ft): 259 Length of Water Column (ft): 173.71

Well Inner Diameter (in): 4 1 Well Volume (gal): 113 x 3 = 340

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: NJL Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horiba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/14 | 1105 | 0 | 85.15 | 6.73 | 2.11 | 40.5 | 8.06 | 26.70 | 147 |
| | 1109 | 40 | 88.72 | 6.86 | 2.77 | 22.7 | 5.00 | 25.01 | 130 |
| | 1113 | 80 | 88.72 | 6.90 | 3.00 | 12.8 | 3.11 | 24.98 | 122 |
| | 1117 | 120 | 88.72 | 6.97 | 3.29 | 6.2 | 3.00 | 24.80 | 79 |
| | 1121 | 160 | 88.72 | 6.98 | 3.34 | 5.4 | 2.91 | 24.74 | 76 |
| | 1125 | 200 | 88.72 | 6.98 | 3.34 | 5.1 | 2.69 | 24.73 | 75 |
| | 1129 | 240 | 88.72 | 6.98 | 3.33 | 4.9 | 2.55 | 24.75 | 75 |
| | 1133 | 280 | 88.72 | 6.98 | 3.34 | 4.5 | 2.50 | 24.79 | 74 |
| | 1137 | 320 | 88.72 | 6.98 | 3.34 | 4.1 | 2.48 | 24.80 | 74 |
| | 1141 | 340 | 88.72 | 6.98 | 3.34 | 3.8 | 2.46 | 24.82 | 74 |

Volume Purged Prior to Sample Collection: 340 Depth to Water during Sample Collection: 88.72

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks:

level 4

OU3-1D-D-031413

10 ppm

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3-13D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/14/13

Project Number: 0096498 Sample Time: 1425

Screened Interval: 244.7 Initial Depth to Water (ft): 92.81

Measured Well Depth (ft): 250 Length of Water Column (ft): 157.19

Well Inner Diameter (in): 4 1 Well Volume (gal): 102+3=306

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horiba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/14 | 1355 | 0 | 91.58 | 6.96 | 2.49 | 17.4 | 7.87 | 27.81 | 110 |
| | 1359 | 40 | 91.79 | 6.96 | 2.45 | 15.6 | 5.11 | 27.77 | 99 |
| | 1403 | 80 | 92.93 | 6.97 | 2.41 | 13.0 | 4.05 | 27.69 | 90 |
| | 1407 | 120 | 93.28 | 6.98 | 2.38 | 12.3 | 3.68 | 27.62 | 82 |
| | 1411 | 160 | 95.21 | 6.99 | 2.33 | 11.2 | 2.94 | 27.55 | 80 |
| | 1415 | 200 | 98.65 | 7.00 | 2.30 | 7.1 | 2.88 | 27.05 | 78 |
| | 1419 | 240 | 99.78 | 7.05 | 2.26 | 6.9 | 2.76 | 26.94 | 77 |
| | 1423 | 280 | 100.80 | 7.06 | 2.25 | 6.8 | 2.74 | 26.89 | 77 |
| | 1425 | 306 | 101.56 | 7.06 | 2.25 | 5.1 | 2.72 | 26.86 | 76 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 306 Depth to Water during Sample Collection: 101.56

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: level 4 10gpm

OU3-13D-D-031414

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3 - 13M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3
Project Number: 0096498

Sample Date: 3/14/13
Sample Time: 1548

Screened Interval: 124.7
Measured Well Depth (ft): 175
Well Inner Diameter (in): 4

Initial Depth to Water (ft): 96.10
Length of Water Column (ft): 78.9
1 Well Volume (gal): 51.5 x 3 = 155

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle
Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Horiba
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/14 | 1433 | 0 | 96.10 | 7.29 | 3.00 | 105 | 1.88 | 26.39 | 64 |
| | 1443 | 20 | 97.37 | 7.00 | 3.00 | 77.0 | 1.85 | 26.20 | 119 |
| | 1453 | 40 | 97.33 | 6.95 | 3.00 | 31.8 | 1.83 | 26.11 | 120 |
| | 1503 | 60 | 97.33 | 6.93 | 3.00 | 24.7 | 1.80 | 25.98 | 125 |
| | 1513 | 80 | 97.33 | 6.93 | 3.00 | 23.6 | 1.77 | 25.95 | 130 |
| | 1523 | 100 | 97.33 | 6.93 | 3.00 | ~~[illegible]~~ 20.2 | 1.75 | 25.90 | 134 |
| | 1533 | 120 | 97.33 | 6.93 | 3.00 | 19.0 | 1.70 | 25.87 | 137 |
| | 1543 | 140 | 97.33 | 6.93 | 3.00 | 15.0 | 1.69 | 25.85 | 138 |
| | 1548 | 155 | 97.37 | 6.94 | 3.00 | 14.4 | 1.69 | 25.84 | 138 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 155
Depth to Water during Sample Collection: 97.37

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: equip blank GW-EB10-03/14/13 1555 duplicate OU3-13M-M-03/14/13-Q1 3pm
OU3-13M-M-03/14/13

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-19D

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/15/13

Project Number: 0086498 Sample Time: 0818

Screened Interval: 267 Initial Depth to Water (ft): 82.41

Measured Well Depth (ft): 270 Length of Water Column (ft): 187.59

Well Inner Diameter (in): 4 1 Well Volume (gal): 122 x 3 = 366

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horiba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/15 | 0739 | 0 | 82.90 | 7.16 | 2.26 | 38.4 | 8.46 | 27.06 | 157 |
| | 0743 | 40 | 83.48 | 7.38 | 1.99 | 20.7 | 6.69 | 27.22 | 92 |
| | 0747 | 80 | 84.71 | 7.40 | 1.96 | 10.1 | 5.68 | 27.48 | 47 |
| | 0751 | 120 | 85.90 | 7.44 | 1.97 | 3.8 | 4.95 | 27.66 | 30 |
| | 0755 | 160 | 85.90 | 7.39 | 1.97 | 3.0 | 3.94 | 25.60 | 29 |
| | 0759 | 200 | 85.90 | 7.30 | 1.97 | 2.9 | 3.71 | 24.95 | 27 |
| | 0803 | 240 | 85.90 | 7.27 | 1.97 | 2.7 | 3.30 | 23.81 | 23 |
| | 0807 | 280 | 85.90 | 7.26 | 1.97 | 2.5 | 3.26 | 22.70 | 22 |
| | 0811 | 320 | 85.90 | 7.26 | 1.97 | 2.8 | 3.22 | 22.66 | 21 |
| | 0818 | 366 | 85.90 | 7.25 | 1.97 | 1.2 | 3.20 | 22.56 | 21 |

Volume Purged Prior to Sample Collection: 366 Depth to Water during Sample Collection: 85.90

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: EW-19D-D-031513 10:30am

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: EW-19s

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/15/10
Project Number: 0096498 Sample Time: 0902

Screened Interval: 107 Initial Depth to Water (ft): 91.28
Measured Well Depth (ft): 112 Length of Water Column (ft): 20.72
Well Inner Diameter (in): 4 1 Well Volume (gal): 14 x 3.242

Water Volume/ft. for:
1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Nagle Sampler Affiliation: ERM

Purge Method/Equipment: Pump
Stabilization Test Equipment: Hach
Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/14 | 0822 | 0 | 91.34 | 6.84 | 1.79 | 9.3 | 2.36 | 23.91 | 57 |
| | 0827 | 5 | 95.23 | 6.90 | 1.78 | 8.3 | 2.30 | 23.98 | 62 |
| | 0832 | 10 | 95.23 | 6.82 | 1.78 | 7.7 | 2.25 | 24.08 | 69 |
| | 0837 | 15 | 95.23 | 7.00 | 1.77 | 5.0 | 2.20 | 24.02 | 72 |
| | 0842 | 20 | 95.23 | 7.03 | 1.77 | 4.7 | 2.15 | 24.70 | 80 |
| | 0847 | 25 | 95.23 | 7.05 | 1.76 | 4.9 | 2.11 | 24.92 | 89 |
| | 0852 | 30 | 95.23 | 7.05 | 1.75 | 5.1 | 2.05 | 25.07 | 91 |
| | 0857 | 35 | 95.23 | 7.05 | 1.75 | 4.8 | 2.03 | 25.11 | 93 |
| | 0902 | 42 | 95.23 | 7.06 | 1.74 | 3.8 | 2.00 | 25.23 | 93 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 42 Depth to Water during Sample Collection: 95.23

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks: duplicate EW-19s-S-031513-Q1 1gpm
EW-19s-S-031513

# GROUNDWATER SAMPLING FIELD DATA FORM

Well Identification: OU3 -2M

ERM
7272 E Indian School Rd.
Suite 100
Scottsdale, AZ 85251

Project: OU3 Sample Date: 3/15/13

Project Number: 0096498 Sample Time: 1057

Screened Interval: 170 Initial Depth to Water (ft): 91.40

Measured Well Depth (ft): 175 Length of Water Column (ft): 83.6

Well Inner Diameter (in): 1 Well Volume (gal): 55 x 3 = 165

Water Volume/ft. for:

1" diameter well = 0.041 x LWC
2" diameter well = 0.163 x LWC
4" diameter well = 0.653 x LWC
6" diameter well = 1.469 x LWC

Samplers: Ngk Sampler Affiliation: ERM

Purge Method/Equipment: Pump

Stabilization Test Equipment: Horiba

Sampling Method/Equipment: Pump

Stabilization Test:

| Date | Time | Cummulative Volume (gal) | Depth to Water (ft) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (ppt) | Temperature (C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 3/15 | 0933 | 0 | 91.40 | 6.63 | 1.83 | 160 | 7.55 | 24.90 | 24 |
| | 0943 | 20 | 91.47 | 6.95 | 1.79 | 96.3 | 6.08 | 25.63 | 56 |
| | 0953 | 40 | 91.47 | 7.08 | 1.78 | 80.7 | 5.58 | 25.79 | 59 |
| | 1003 | 60 | 91.47 | 7.21 | 1.77 | 79.0 | 4.56 | 26.02 | 60 |
| | 1013 | 80 | 91.47 | 7.34 | 1.74 | 70.2 | 3.81 | 26.00 | 61 |
| | 1023 | 100 | 91.47 | 7.35 | 1.74 | 66.6 | 3.57 | 26.03 | 62 |
| | 1033 | 120 | 91.47 | 7.35 | 1.73 | 64.1 | 2.27 | 25.68 | 62 |
| | 1043 | 140 | 91.47 | 7.35 | 1.73 | 60.2 | 2.25 | 25.55 | 63 |
| | 1057 | 165 | 91.47 | 7.34 | 1.72 | 57.2 | 2.20 | 25.53 | 64 |
| | | | | | | | | | |

Volume Purged Prior to Sample Collection: 165 Depth to Water during Sample Collection: 91.47

| Analysis/Parameter | Container/Volume | Preservative/Preparation |
|---|---|---|
| VOC | 40 mL VOA x 3 | HCl |
| 1,4-Dioxane | 1L Amber x 1 | -- |
| | | |
| | | |
| | | |

Remarks:

MS/MSD OU3-2M-N-031513-MS/MSD 2pm

equip blk OW-EQB1L-031513/1111

* well is bridged w/ clay approx 6' bgs, bottom

*Appendix B*
*Laboratory Analytical Results*

DRAFT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/04/13
Received: 03/04/13
Revised: 04/23/13 15:37

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0150-01 | GW-L1-1-030413 | Water |
| PWC0150-02 | EW-13-268-D-030413 | Water |
| PWC0150-03 | EW-13-228-D-030413 | Water |
| PWC0150-04 | EW-13-168-M-030413 | Water |
| PWC0150-05 | EW-13-118-S-030413 | Water |
| PWC0150-06 | GW-EB1-030413 | Water |
| PWC0150-07 | DT-DW-5-S-030413 | Water |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 04/23/13 due to QAPP changes. |

Reviewed By:

Tina Paulauskas

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-01 (GW-L1-1-030413 - Water)** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0150-01 (GW-L1-1-030413 - Water) - cont.** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-02 (EW-13-268-D-030413 - Water)** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-02 (EW-13-268-D-030413 - Water) - cont.** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-03 (EW-13-228-D-030413 - Water)** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | M1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-03 (EW-13-228-D-030413 - Water) - cont.** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0265 | 0.50 | **3.2** | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3, N1 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-04 (EW-13-168-M-030413 - Water)** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-04 (EW-13-168-M-030413 - Water) - cont.** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-05 (EW-13-118-S-030413 - Water)** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-05 (EW-13-118-S-030413 - Water) - cont.** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-06 (GW-EB1-030413 - Water)** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0265 | 0.50 | **2.4** | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Chloroform** | EPA 8260B | 13C0265 | 0.50 | **1.4** | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0265 | 0.50 | **2.8** | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0150-06 (GW-EB1-030413 - Water) - cont.** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0150-07 (DT-DW-5-S-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Chloroform** | EPA 8260B | 13C0265 | 0.50 | **0.62** | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0150-07 (DT-DW-5-S-030413 - Water) - cont.** **Sampled: 03/04/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0150-02 (EW-13-268-D-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0226 | 1.1 | ND | 1.14 | 3/6/2013 | 3/11/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *60 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *78 %* | | | | |
| **Sample ID: PWC0150-03RE1 (EW-13-228-D-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *23 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *62 %* | | | | |
| **Sample ID: PWC0150-04RE1 (EW-13-168-M-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.06 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *31 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC0150-05 (EW-13-118-S-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0226 | 1.1 | ND | 1.12 | 3/6/2013 | 3/11/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *54 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *72 %* | | | | |
| **Sample ID: PWC0150-06 (GW-EB1-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0226 | 1.1 | ND | 1.14 | 3/6/2013 | 3/11/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *75 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *94 %* | | | | |
| **Sample ID: PWC0150-07 (DT-DW-5-S-030413 - Water)** | | | | | **Sampled: 03/04/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0226 | 1.2 | ND | 1.19 | 3/6/2013 | 3/11/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *74 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *98 %* | | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Blank Analyzed: 03/07/2013 (13C0265-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Blank Analyzed: 03/07/2013 (13C0265-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.2* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Analyzed: 03/07/2013 (13C0265-BS1)** | | | | | | | | | | |
| Acetone | 34.0 | 20 | ug/l | 25.0 | | 136 | 38-150 | | | |
| Benzene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromobenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromochloromethane | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| Bromodichloromethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromoform | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 69-129 | | | |
| Bromomethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 57-138 | | | |
| 2-Butanone (MEK) | 26.1 | 5.0 | ug/l | 25.0 | | 105 | 53-150 | | | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| sec-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| tert-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Carbon disulfide | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 64-145 | | | |
| Carbon tetrachloride | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | | | |
| Chlorobenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Chloroethane | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 66-131 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Chloromethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 56-129 | | | |
| 2-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 4-Chlorotoluene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 34.6 | 5.0 | ug/l | 25.0 | | 138 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Dibromomethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 46-144 | | | |
| 1,1-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2-Dichloroethane | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 66-139 | | | |
| 1,1-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 69-127 | | | |
| 1,2-Dichloropropane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,3-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 2,2-Dichloropropane | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Analyzed: 03/07/2013 (13C0265-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Ethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Hexachlorobutadiene | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 76-145 | | | |
| 2-Hexanone | 31.7 | 2.5 | ug/l | 25.0 | | 127 | 55-150 | | | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Isopropylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 88-141 | | | |
| p-Isopropyltoluene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Methylene Chloride | 22.9 | 1.0 | ug/l | 25.0 | | 92 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 30.7 | 5.0 | ug/l | 25.0 | | 123 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Naphthalene | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 78-143 | | | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Styrene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Tetrachloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Toluene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.1 | 1.0 | ug/l | 25.0 | | 100 | 80-137 | | | |
| 1,1,1-Trichloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 71-131 | | | |
| 1,1,2-Trichloroethane | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Trichloroethene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Trichlorofluoromethane | 32.9 | 0.50 | ug/l | 25.0 | | 132 | 69-150 | | | |
| 1,2,3-Trichloropropane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Vinyl Acetate | 44.6 | 2.0 | ug/l | 25.0 | | 179 | 67-148 | | | *L3* |
| Vinyl chloride | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 53.0 | 1.0 | ug/l | 50.0 | | 106 | 70-130 | | | |
| Freon 113 | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *22.5* | | *ug/l* | *25.0* | | *90* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.3* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/07/2013 (13C0265-BSD1)** | | | | | | | | | | |
| Acetone | 37.3 | 20 | ug/l | 25.0 | | 149 | 38-150 | 9 | 35 | |
| Benzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.3 | 20 | |
| Bromobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 2 | 20 | |
| Bromochloromethane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| Bromodichloromethane | 28.6 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 69-129 | 0.1 | 20 | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 57-138 | 3 | 20 | |
| 2-Butanone (MEK) | 29.9 | 5.0 | ug/l | 25.0 | | 119 | 53-150 | 13 | 35 | |
| n-Butylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 0.8 | 20 | |
| sec-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| tert-Butylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| Carbon disulfide | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 64-145 | 2 | 33 | |
| Carbon tetrachloride | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | 0.5 | 20 | |
| Chlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| Chloroethane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 66-131 | 1 | 20 | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| Chloromethane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 56-129 | 4 | 20 | |
| 2-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| 4-Chlorotoluene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Dibromochloromethane | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 0.4 | 20 | |
| 1,2-Dibromo-3-chloropropane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | 4 | 22 | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 46-144 | 0.1 | 23 | |
| 1,1-Dichloroethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,2-Dichloroethane | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 66-139 | 3 | 20 | |
| 1,1-Dichloroethene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 63-131 | 1 | 22 | |
| cis-1,2-Dichloroethene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | 2 | 20 | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 1,3-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 30.3 | 1.0 | ug/l | 25.0 | | 121 | 69-139 | 3 | 20 | |

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Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/07/2013 (13C0265-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 0.6 | 20 | |
| cis-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 0.9 | 20 | |
| trans-1,3-Dichloropropene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | 4 | 20 | |
| Ethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 4 | 20 | |
| Hexachlorobutadiene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 76-145 | 1 | 20 | |
| 2-Hexanone | 33.6 | 2.5 | ug/l | 25.0 | | 134 | 55-150 | 6 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 0.2 | 20 | |
| Isopropylbenzene | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 88-141 | 0.5 | 20 | |
| p-Isopropyltoluene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| Methylene Chloride | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | 1 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 32.4 | 5.0 | ug/l | 25.0 | | 130 | 64-142 | 5 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 5 | 20 | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 78-143 | 5 | 20 | |
| n-Propylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Styrene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 1 | 20 | |
| Tetrachloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 4 | 20 | |
| Toluene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.7 | 20 | |
| 1,2,3-Trichlorobenzene | 23.6 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 3 | 20 | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | 0.4 | 20 | |
| 1,1,1-Trichloroethane | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | 2 | 20 | |
| 1,1,2-Trichloroethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| Trichloroethene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 0.04 | 20 | |
| Trichlorofluoromethane | 32.5 | 0.50 | ug/l | 25.0 | | 130 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,2,4-Trimethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 1 | 20 | |
| 1,3,5-Trimethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Vinyl Acetate | 46.4 | 2.0 | ug/l | 25.0 | | 185 | 67-148 | 4 | 22 | *L3* |
| Vinyl chloride | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 65-137 | 3 | 20 | |
| Xylenes, Total | 51.5 | 1.0 | ug/l | 50.0 | | 103 | 70-130 | 3 | 20 | |
| Freon 113 | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 65-139 | 3 | 27 | |
| *Surrogate: Dibromofluoromethane* | *23.8* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/07/2013 (13C0265-MS1)** | | | | | **Source: PWC0150-03** | | | | | |
| Acetone | 30.5 | 20 | ug/l | 25.0 | ND | 122 | 29-139 | | | |
| Benzene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | | | |
| Bromobenzene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | | | |
| Bromochloromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 64-132 | | | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | | | |
| Bromoform | 27.7 | 1.0 | ug/l | 25.0 | ND | 111 | 60-128 | | | |
| Bromomethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 47-144 | | | |
| 2-Butanone (MEK) | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 31-143 | | | |
| n-Butylbenzene | 30.1 | 0.50 | ug/l | 25.0 | ND | 120 | 69-140 | | | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 72-136 | | | |
| tert-Butylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 74-135 | | | |
| Carbon disulfide | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 45-150 | | | |
| Carbon tetrachloride | 32.5 | 0.50 | ug/l | 25.0 | 0.220 | 129 | 65-147 | | | |
| Chlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 57-139 | | | |
| Chloroform | 28.4 | 0.50 | ug/l | 25.0 | 0.320 | 112 | 63-131 | | | |
| Chloromethane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| Dibromochloromethane | 28.9 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | ND | 146 | 53-145 | | | *M1* |
| 1,2-Dibromoethane (EDB) | 28.1 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromomethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dichlorodifluoromethane | 32.1 | 0.50 | ug/l | 25.0 | 0.150 | 128 | 40-148 | | | |
| 1,1-Dichloroethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 62-130 | | | |
| 1,2-Dichloroethane | 33.8 | 0.50 | ug/l | 25.0 | ND | 135 | 54-147 | | | |
| 1,1-Dichloroethene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 57-137 | | | |
| cis-1,2-Dichloroethene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 65-127 | | | |
| trans-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 62-131 | | | |
| 1,2-Dichloropropane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 68-126 | | | |
| 1,3-Dichloropropane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 68-129 | | | |
| 2,2-Dichloropropane | 31.3 | 1.0 | ug/l | 25.0 | ND | 125 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/07/2013 (13C0265-MS1)** | | | | | **Source: PWC0150-03** | | | | | |
| 1,1-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 64-134 | | | |
| cis-1,3-Dichloropropene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | | | |
| trans-1,3-Dichloropropene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 58-136 | | | |
| Ethylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 74-134 | | | |
| Hexachlorobutadiene | 26.6 | 1.0 | ug/l | 25.0 | ND | 106 | 69-150 | | | |
| 2-Hexanone | 29.9 | 2.5 | ug/l | 25.0 | ND | 120 | 40-142 | | | |
| Iodomethane | 29.0 | 2.5 | ug/l | 25.0 | ND | 116 | 53-150 | | | |
| Isopropylbenzene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 80-146 | | | |
| p-Isopropyltoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-133 | | | |
| Methylene Chloride | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 31.8 | 5.0 | ug/l | 25.0 | ND | 127 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 67-138 | | | |
| Naphthalene | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 67-146 | | | |
| n-Propylbenzene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 74-140 | | | |
| Styrene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | | | |
| Tetrachloroethene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 67-131 | | | |
| Toluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 74-138 | | | |
| 1,1,1-Trichloroethane | 31.9 | 0.50 | ug/l | 25.0 | ND | 128 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | | | |
| Trichloroethene | 31.3 | 0.50 | ug/l | 25.0 | 3.18 | 112 | 66-132 | | | |
| Trichlorofluoromethane | 35.5 | 0.50 | ug/l | 25.0 | ND | 142 | 62-150 | | | |
| 1,2,3-Trichloropropane | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | | | |
| Vinyl Acetate | 44.5 | 2.0 | ug/l | 25.0 | ND | 178 | 47-150 | | | *N1* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 54.2 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/07/2013 (13C0265-MSD1)** | | | | | **Source: PWC0150-03** | | | | | |
| Acetone | 29.4 | 20 | ug/l | 25.0 | ND | 118 | 29-139 | 4 | 35 | |
| Benzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | 0.6 | 32 | |
| Bromobenzene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 70-130 | 3 | 28 | |
| Bromochloromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 64-132 | 0.04 | 35 | |
| Bromodichloromethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 117 | 63-138 | 0.4 | 31 | |
| Bromoform | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 60-128 | 3 | 31 | |
| Bromomethane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 31-143 | 5 | 35 | |
| n-Butylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | 4 | 33 | |
| tert-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-135 | 2 | 32 | |
| Carbon disulfide | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 45-150 | 4 | 35 | |
| Carbon tetrachloride | 31.4 | 0.50 | ug/l | 25.0 | 0.220 | 125 | 65-147 | 4 | 35 | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 1 | 30 | |
| Chloroethane | 27.1 | 1.0 | ug/l | 25.0 | ND | 108 | 57-139 | 2 | 35 | |
| Chloroform | 27.9 | 0.50 | ug/l | 25.0 | 0.320 | 110 | 63-131 | 2 | 33 | |
| Chloromethane | 28.3 | 1.0 | ug/l | 25.0 | ND | 113 | 47-134 | 2 | 35 | |
| 2-Chlorotoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 71-131 | 3 | 29 | |
| 4-Chlorotoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-134 | 3 | 33 | |
| 1,2-Dibromo-3-chloropropane | 35.9 | 5.0 | ug/l | 25.0 | ND | 143 | 53-145 | 2 | 35 | |
| 1,2-Dibromoethane (EDB) | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 1 | 33 | |
| Dibromomethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | 0.04 | 35 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 3 | 27 | |
| 1,3-Dichlorobenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 4 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 32.0 | 0.50 | ug/l | 25.0 | 0.150 | 127 | 40-148 | 0.3 | 35 | |
| 1,1-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 62-130 | 3 | 34 | |
| 1,2-Dichloroethane | 32.9 | 0.50 | ug/l | 25.0 | ND | 132 | 54-147 | 3 | 35 | |
| 1,1-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 65-127 | 5 | 34 | |
| trans-1,2-Dichloroethene | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 62-131 | 3 | 35 | |
| 1,2-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-126 | 0.2 | 32 | |
| 1,3-Dichloropropane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 68-129 | 3 | 33 | |
| 2,2-Dichloropropane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 60-146 | 12 | 35 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/07/2013 (13C0265-MSD1)** | | | | | **Source: PWC0150-03** | | | | | |
| 1,1-Dichloropropene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 64-134 | 3 | 34 | |
| cis-1,3-Dichloropropene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | 0.8 | 35 | |
| trans-1,3-Dichloropropene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 58-136 | 0.4 | 35 | |
| Ethylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-134 | 1 | 32 | |
| Hexachlorobutadiene | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 69-150 | 1 | 32 | |
| 2-Hexanone | 30.1 | 2.5 | ug/l | 25.0 | ND | 120 | 40-142 | 0.7 | 35 | |
| Iodomethane | 28.0 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | 4 | 35 | |
| Isopropylbenzene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 80-146 | 3 | 32 | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | 3 | 32 | |
| Methylene Chloride | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 55-133 | 5 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 32.5 | 5.0 | ug/l | 25.0 | ND | 130 | 52-143 | 2 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 67-138 | 5 | 21 | |
| Naphthalene | 28.1 | 5.0 | ug/l | 25.0 | ND | 112 | 67-146 | 1 | 29 | |
| n-Propylbenzene | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 74-140 | 3 | 32 | |
| Styrene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | 0.7 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 1 | 30 | |
| 1,1,2,2-Tetrachloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-137 | 2 | 32 | |
| Tetrachloroethene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 67-131 | 0.3 | 31 | |
| Toluene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 65-138 | 3 | 33 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 74-138 | 2 | 26 | |
| 1,1,1-Trichloroethane | 31.5 | 0.50 | ug/l | 25.0 | ND | 126 | 64-138 | 1 | 35 | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 63-132 | 2 | 35 | |
| Trichloroethene | 30.8 | 0.50 | ug/l | 25.0 | 3.18 | 111 | 66-132 | 1 | 29 | |
| Trichlorofluoromethane | 34.4 | 0.50 | ug/l | 25.0 | ND | 138 | 62-150 | 3 | 35 | |
| 1,2,3-Trichloropropane | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 68-130 | 7 | 32 | |
| 1,2,4-Trimethylbenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | 3 | 31 | |
| 1,3,5-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 66-137 | 3 | 30 | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | 4 | 35 | *N1* |
| Vinyl chloride | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 55-146 | 1 | 35 | |
| Xylenes, Total | 54.3 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | 0.1 | 31 | |
| Freon 113 | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0226 Extracted: 03/06/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0226-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *15.2* | | *ug/l* | *20.0* | | *76* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.1* | | *ug/l* | *20.0* | | *95* | *27-143* | | | |
| **LCS Analyzed: 03/11/2013 (13C0226-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 19.8 | 1.0 | ug/l | 20.0 | | 99 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *12.8* | | *ug/l* | *20.0* | | *64* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.9* | | *ug/l* | *20.0* | | *80* | *28-150* | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0226-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 20.0 | 1.0 | ug/l | 20.0 | | 100 | 85-116 | 1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *15.5* | | *ug/l* | *20.0* | | *78* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.1* | | *ug/l* | *20.0* | | *101* | *28-150* | | | |
| **Batch: 13C0419 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0419-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.38* | | *ug/l* | *20.0* | | *37* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.9* | | *ug/l* | *20.0* | | *95* | *27-143* | | | |
| **LCS Analyzed: 03/16/2013 (13C0419-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.12* | | *ug/l* | *20.0* | | *36* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.4* | | *ug/l* | *20.0* | | *97* | *28-150* | | | |
| **LCS Dup Analyzed: 03/16/2013 (13C0419-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.6 | 1.0 | ug/l | 20.0 | | 108 | 85-116 | 4 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *7.51* | | *ug/l* | *20.0* | | *38* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.9* | | *ug/l* | *20.0* | | *95* | *28-150* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0419 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/16/2013 (13C0419-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,4-Dioxane | 23.9 | 1.0 | ug/l | 21.7 | ND | 110 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.67* | | *ug/l* | *21.7* | | *35* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.4* | | *ug/l* | *21.7* | | *89* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/16/2013 (13C0419-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,4-Dioxane | 23.6 | 1.0 | ug/l | 21.7 | ND | 108 | 65-138 | 1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *8.78* | | *ug/l* | *21.7* | | *40* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *22.0* | | *ug/l* | *21.7* | | *101* | *27-143* | | | |

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Project Manager

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/04/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0150 | Received: 03/04/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **M1** | Matrix spike recovery was high; the associated blank spike recovery was acceptable. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0150

Sampled: 03/04/13
Received: 03/04/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM, 7272 E Indian School Rd, Ste 100, Scottsdale, AZ 85251

Project/PO Number: 0046495

Project Manager: Jason.Hefner@ERM.com

Phone Number: 480-994-2401

Sampler: Adam Nagle

Fax Number:

Analysis Required: VOC 8260B; 8270 SIM; PWC0150

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260B | 8270 SIM | PWC0150 Special Instructions | |
|---|---|---|---|---|---|---|---|---|---|---|
| GW-LI-1-030413 | water | VOA | 3 | 3/4/13 | — | HCl | X | | TRIP BLANK | -01 |
| EW-13-268-D-030413 | water | VOA Amber | 3 / 1 | 3/4/13 | 0907 | HCl — | X | X | | -02 |
| EW-13-225-D-030413 | | | | 3/4/13 | 1005 | | X | X | | -03 |
| EW-13-168-M-030413 | | | | 3/4/13 | 1100 | | X | X | | -04 |
| EW-13-118-S-030413 | | | | 3/4/13 | 1158 | | X | X | | -05 |
| GW-EB1-030413 | | | | 3/4/13 | 1224 | | X | X | | -06 |
| DI-PW-S-S-030413 | | | | 3/4/13 | 1458 | | X | X | | -07 |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| ERM / ERM | 3/4/13 1530 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: Sharon Malone | Date/Time: 3/4/13 1530 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

2.1°C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/06/13
Received: 03/06/13
Revised: 04/28/13 13:53

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0353-01 | OU3-11M2-M-030613 | Water |
| PWC0353-02 | OU3-11M-M-030613 | Water |
| PWC0353-03 | OU3-11M-M-030613-Q1 | Water |
| PWC0353-04 | OU3-11S-S-030613 | Water |
| PWC0353-05 | OU3-12M-M-030613 | Water |
| PWC0353-06 | GW-EB2-030613 | Water |
| PWC0353-07 | GW-L1-2-030613 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>N1a-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Revised report on 032813 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-01 (OU3-11M2-M-030613 - Water)** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-01 (OU3-11M2-M-030613 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *101 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *96 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0353-02 (OU3-11M-M-030613 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-02 (OU3-11M-M-030613 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-03 (OU3-11M-M-030613-Q1 - Water)** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-03 (OU3-11M-M-030613-Q1 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0353-04 (OU3-11S-S-030613 - Water)** | | | | **Sampled: 03/06/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Chloroform** | EPA 8260B | 13C0265 | 0.50 | **0.50** | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-04 (OU3-11S-S-030613 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0353-05 (OU3-12M-M-030613 - Water)** | | | | **Sampled: 03/06/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0265 | 0.50 | **0.86** | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-05 (OU3-12M-M-030613 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0265 | 0.50 | **1.5** | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-06 (GW-EB2-030613 - Water)** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0265 | 0.50 | **2.5** | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Carbon disulfide** | EPA 8260B | 13C0265 | 1.0 | **1.4** | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Chloroform** | EPA 8260B | 13C0265 | 0.50 | **1.5** | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0265 | 0.50 | **2.7** | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-06 (GW-EB2-030613 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-07 (GW-L1-2-030613 - Water)** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0353-07 (GW-L1-2-030613 - Water) - cont.** **Sampled: 03/06/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0353-01RE1 (OU3-11M2-M-030613 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.1 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *28 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *69 %* | | | | |
| **Sample ID: PWC0353-02RE1 (OU3-11M-M-030613 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.01 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *28 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *79 %* | | | | |
| **Sample ID: PWC0353-03RE1 (OU3-11M-M-030613-Q1 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.1 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *20 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *56 %* | | | | |
| **Sample ID: PWC0353-04RE1 (OU3-11S-S-030613 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.1 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *31 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *76 %* | | | | |
| **Sample ID: PWC0353-05RE1 (OU3-12M-M-030613 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.2 | ND | 1.19 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *31 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC0353-06RE1 (GW-EB2-030613 - Water)** | | | | | **Sampled: 03/06/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.1 | ND | 1.14 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *28 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *74 %* | | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Blank Analyzed: 03/07/2013 (13C0265-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Blank Analyzed: 03/07/2013 (13C0265-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.2* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Analyzed: 03/07/2013 (13C0265-BS1)** | | | | | | | | | | |
| Acetone | 34.0 | 20 | ug/l | 25.0 | | 136 | 38-150 | | | |
| Benzene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromobenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromochloromethane | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| Bromodichloromethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromoform | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 69-129 | | | |
| Bromomethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 57-138 | | | |
| 2-Butanone (MEK) | 26.1 | 5.0 | ug/l | 25.0 | | 105 | 53-150 | | | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| sec-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| tert-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Carbon disulfide | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 64-145 | | | |
| Carbon tetrachloride | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | | | |
| Chlorobenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Chloroethane | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 66-131 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Chloromethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 56-129 | | | |
| 2-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 4-Chlorotoluene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 34.6 | 5.0 | ug/l | 25.0 | | 138 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Dibromomethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 46-144 | | | |
| 1,1-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2-Dichloroethane | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 66-139 | | | |
| 1,1-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 69-127 | | | |
| 1,2-Dichloropropane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,3-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 2,2-Dichloropropane | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Analyzed: 03/07/2013 (13C0265-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Ethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Hexachlorobutadiene | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 76-145 | | | |
| 2-Hexanone | 31.7 | 2.5 | ug/l | 25.0 | | 127 | 55-150 | | | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Isopropylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 88-141 | | | |
| p-Isopropyltoluene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Methylene Chloride | 22.9 | 1.0 | ug/l | 25.0 | | 92 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 30.7 | 5.0 | ug/l | 25.0 | | 123 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Naphthalene | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 78-143 | | | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Styrene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Tetrachloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Toluene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.1 | 1.0 | ug/l | 25.0 | | 100 | 80-137 | | | |
| 1,1,1-Trichloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 71-131 | | | |
| 1,1,2-Trichloroethane | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Trichloroethene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Trichlorofluoromethane | 32.9 | 0.50 | ug/l | 25.0 | | 132 | 69-150 | | | |
| 1,2,3-Trichloropropane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Vinyl Acetate | 44.6 | 2.0 | ug/l | 25.0 | | 179 | 67-148 | | | *L3* |
| Vinyl chloride | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 53.0 | 1.0 | ug/l | 50.0 | | 106 | 70-130 | | | |
| Freon 113 | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *22.5* | | *ug/l* | *25.0* | | *90* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.3* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/07/2013 (13C0265-BSD1)** | | | | | | | | | | |
| Acetone | 37.3 | 20 | ug/l | 25.0 | | 149 | 38-150 | 9 | 35 | |
| Benzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.3 | 20 | |
| Bromobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 2 | 20 | |
| Bromochloromethane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| Bromodichloromethane | 28.6 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 69-129 | 0.1 | 20 | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 57-138 | 3 | 20 | |
| 2-Butanone (MEK) | 29.9 | 5.0 | ug/l | 25.0 | | 119 | 53-150 | 13 | 35 | |
| n-Butylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 0.8 | 20 | |
| sec-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| tert-Butylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| Carbon disulfide | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 64-145 | 2 | 33 | |
| Carbon tetrachloride | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | 0.5 | 20 | |
| Chlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| Chloroethane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 66-131 | 1 | 20 | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| Chloromethane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 56-129 | 4 | 20 | |
| 2-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| 4-Chlorotoluene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Dibromochloromethane | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 0.4 | 20 | |
| 1,2-Dibromo-3-chloropropane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | 4 | 22 | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 46-144 | 0.1 | 23 | |
| 1,1-Dichloroethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,2-Dichloroethane | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 66-139 | 3 | 20 | |
| 1,1-Dichloroethene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 63-131 | 1 | 22 | |
| cis-1,2-Dichloroethene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | 2 | 20 | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 1,3-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 30.3 | 1.0 | ug/l | 25.0 | | 121 | 69-139 | 3 | 20 | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/07/2013 (13C0265-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 0.6 | 20 | |
| cis-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 0.9 | 20 | |
| trans-1,3-Dichloropropene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | 4 | 20 | |
| Ethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 4 | 20 | |
| Hexachlorobutadiene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 76-145 | 1 | 20 | |
| 2-Hexanone | 33.6 | 2.5 | ug/l | 25.0 | | 134 | 55-150 | 6 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 0.2 | 20 | |
| Isopropylbenzene | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 88-141 | 0.5 | 20 | |
| p-Isopropyltoluene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| Methylene Chloride | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | 1 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 32.4 | 5.0 | ug/l | 25.0 | | 130 | 64-142 | 5 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 5 | 20 | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 78-143 | 5 | 20 | |
| n-Propylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Styrene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 1 | 20 | |
| Tetrachloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 4 | 20 | |
| Toluene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.7 | 20 | |
| 1,2,3-Trichlorobenzene | 23.6 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 3 | 20 | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | 0.4 | 20 | |
| 1,1,1-Trichloroethane | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | 2 | 20 | |
| 1,1,2-Trichloroethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| Trichloroethene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 0.04 | 20 | |
| Trichlorofluoromethane | 32.5 | 0.50 | ug/l | 25.0 | | 130 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,2,4-Trimethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 1 | 20 | |
| 1,3,5-Trimethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Vinyl Acetate | 46.4 | 2.0 | ug/l | 25.0 | | 185 | 67-148 | 4 | 22 | *L3* |
| Vinyl chloride | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 65-137 | 3 | 20 | |
| Xylenes, Total | 51.5 | 1.0 | ug/l | 50.0 | | 103 | 70-130 | 3 | 20 | |
| Freon 113 | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 65-139 | 3 | 27 | |
| *Surrogate: Dibromofluoromethane* | *23.8* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/07/2013 (13C0265-MS1)** | | | | | **Source: PWC0150-03** | | | | | |
| Acetone | 30.5 | 20 | ug/l | 25.0 | ND | 122 | 29-139 | | | |
| Benzene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | | | |
| Bromobenzene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | | | |
| Bromochloromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 64-132 | | | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | | | |
| Bromoform | 27.7 | 1.0 | ug/l | 25.0 | ND | 111 | 60-128 | | | |
| Bromomethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 47-144 | | | |
| 2-Butanone (MEK) | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 31-143 | | | |
| n-Butylbenzene | 30.1 | 0.50 | ug/l | 25.0 | ND | 120 | 69-140 | | | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 72-136 | | | |
| tert-Butylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 74-135 | | | |
| Carbon disulfide | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 45-150 | | | |
| Carbon tetrachloride | 32.5 | 0.50 | ug/l | 25.0 | 0.220 | 129 | 65-147 | | | |
| Chlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 57-139 | | | |
| Chloroform | 28.4 | 0.50 | ug/l | 25.0 | 0.320 | 112 | 63-131 | | | |
| Chloromethane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| Dibromochloromethane | 28.9 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | ND | 146 | 53-145 | | | *M1* |
| 1,2-Dibromoethane (EDB) | 28.1 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromomethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dichlorodifluoromethane | 32.1 | 0.50 | ug/l | 25.0 | 0.150 | 128 | 40-148 | | | |
| 1,1-Dichloroethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 62-130 | | | |
| 1,2-Dichloroethane | 33.8 | 0.50 | ug/l | 25.0 | ND | 135 | 54-147 | | | |
| 1,1-Dichloroethene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 57-137 | | | |
| cis-1,2-Dichloroethene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 65-127 | | | |
| trans-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 62-131 | | | |
| 1,2-Dichloropropane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 68-126 | | | |
| 1,3-Dichloropropane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 68-129 | | | |
| 2,2-Dichloropropane | 31.3 | 1.0 | ug/l | 25.0 | ND | 125 | 60-146 | | | |

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/07/2013 (13C0265-MS1)** | | | | | **Source: PWC0150-03** | | | | | |
| 1,1-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 64-134 | | | |
| cis-1,3-Dichloropropene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | | | |
| trans-1,3-Dichloropropene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 58-136 | | | |
| Ethylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 74-134 | | | |
| Hexachlorobutadiene | 26.6 | 1.0 | ug/l | 25.0 | ND | 106 | 69-150 | | | |
| 2-Hexanone | 29.9 | 2.5 | ug/l | 25.0 | ND | 120 | 40-142 | | | |
| Iodomethane | 29.0 | 2.5 | ug/l | 25.0 | ND | 116 | 53-150 | | | |
| Isopropylbenzene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 80-146 | | | |
| p-Isopropyltoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-133 | | | |
| Methylene Chloride | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 31.8 | 5.0 | ug/l | 25.0 | ND | 127 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 67-138 | | | |
| Naphthalene | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 67-146 | | | |
| n-Propylbenzene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 74-140 | | | |
| Styrene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | | | |
| Tetrachloroethene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 67-131 | | | |
| Toluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 74-138 | | | |
| 1,1,1-Trichloroethane | 31.9 | 0.50 | ug/l | 25.0 | ND | 128 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | | | |
| Trichloroethene | 31.3 | 0.50 | ug/l | 25.0 | 3.18 | 112 | 66-132 | | | |
| Trichlorofluoromethane | 35.5 | 0.50 | ug/l | 25.0 | ND | 142 | 62-150 | | | |
| 1,2,3-Trichloropropane | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | | | |
| Vinyl Acetate | 44.5 | 2.0 | ug/l | 25.0 | ND | 178 | 47-150 | | | *N1* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 54.2 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/07/2013 (13C0265-MSD1)** | | | | | **Source: PWC0150-03** | | | | | |
| Acetone | 29.4 | 20 | ug/l | 25.0 | ND | 118 | 29-139 | 4 | 35 | |
| Benzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | 0.6 | 32 | |
| Bromobenzene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 70-130 | 3 | 28 | |
| Bromochloromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 64-132 | 0.04 | 35 | |
| Bromodichloromethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 117 | 63-138 | 0.4 | 31 | |
| Bromoform | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 60-128 | 3 | 31 | |
| Bromomethane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 31-143 | 5 | 35 | |
| n-Butylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | 4 | 33 | |
| tert-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-135 | 2 | 32 | |
| Carbon disulfide | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 45-150 | 4 | 35 | |
| Carbon tetrachloride | 31.4 | 0.50 | ug/l | 25.0 | 0.220 | 125 | 65-147 | 4 | 35 | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 1 | 30 | |
| Chloroethane | 27.1 | 1.0 | ug/l | 25.0 | ND | 108 | 57-139 | 2 | 35 | |
| Chloroform | 27.9 | 0.50 | ug/l | 25.0 | 0.320 | 110 | 63-131 | 2 | 33 | |
| Chloromethane | 28.3 | 1.0 | ug/l | 25.0 | ND | 113 | 47-134 | 2 | 35 | |
| 2-Chlorotoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 71-131 | 3 | 29 | |
| 4-Chlorotoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-134 | 3 | 33 | |
| 1,2-Dibromo-3-chloropropane | 35.9 | 5.0 | ug/l | 25.0 | ND | 143 | 53-145 | 2 | 35 | |
| 1,2-Dibromoethane (EDB) | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 1 | 33 | |
| Dibromomethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | 0.04 | 35 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 3 | 27 | |
| 1,3-Dichlorobenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 4 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 32.0 | 0.50 | ug/l | 25.0 | 0.150 | 127 | 40-148 | 0.3 | 35 | |
| 1,1-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 62-130 | 3 | 34 | |
| 1,2-Dichloroethane | 32.9 | 0.50 | ug/l | 25.0 | ND | 132 | 54-147 | 3 | 35 | |
| 1,1-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 65-127 | 5 | 34 | |
| trans-1,2-Dichloroethene | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 62-131 | 3 | 35 | |
| 1,2-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-126 | 0.2 | 32 | |
| 1,3-Dichloropropane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 68-129 | 3 | 33 | |
| 2,2-Dichloropropane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 60-146 | 12 | 35 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/07/2013 (13C0265-MSD1)** | | | | | **Source: PWC0150-03** | | | | | |
| 1,1-Dichloropropene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 64-134 | 3 | 34 | |
| cis-1,3-Dichloropropene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | 0.8 | 35 | |
| trans-1,3-Dichloropropene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 58-136 | 0.4 | 35 | |
| Ethylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-134 | 1 | 32 | |
| Hexachlorobutadiene | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 69-150 | 1 | 32 | |
| 2-Hexanone | 30.1 | 2.5 | ug/l | 25.0 | ND | 120 | 40-142 | 0.7 | 35 | |
| Iodomethane | 28.0 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | 4 | 35 | |
| Isopropylbenzene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 80-146 | 3 | 32 | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | 3 | 32 | |
| Methylene Chloride | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 55-133 | 5 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 32.5 | 5.0 | ug/l | 25.0 | ND | 130 | 52-143 | 2 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 67-138 | 5 | 21 | |
| Naphthalene | 28.1 | 5.0 | ug/l | 25.0 | ND | 112 | 67-146 | 1 | 29 | |
| n-Propylbenzene | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 74-140 | 3 | 32 | |
| Styrene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | 0.7 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 1 | 30 | |
| 1,1,2,2-Tetrachloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-137 | 2 | 32 | |
| Tetrachloroethene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 67-131 | 0.3 | 31 | |
| Toluene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 65-138 | 3 | 33 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 74-138 | 2 | 26 | |
| 1,1,1-Trichloroethane | 31.5 | 0.50 | ug/l | 25.0 | ND | 126 | 64-138 | 1 | 35 | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 63-132 | 2 | 35 | |
| Trichloroethene | 30.8 | 0.50 | ug/l | 25.0 | 3.18 | 111 | 66-132 | 1 | 29 | |
| Trichlorofluoromethane | 34.4 | 0.50 | ug/l | 25.0 | ND | 138 | 62-150 | 3 | 35 | |
| 1,2,3-Trichloropropane | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 68-130 | 7 | 32 | |
| 1,2,4-Trimethylbenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | 3 | 31 | |
| 1,3,5-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 66-137 | 3 | 30 | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | 4 | 35 | *N1* |
| Vinyl chloride | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 55-146 | 1 | 35 | |
| Xylenes, Total | 54.3 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | 0.1 | 31 | |
| Freon 113 | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Kylie Emily For Vic Nielsen
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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0527 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0527-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *4.63* | | *ug/l* | *20.0* | | *23* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *13.6* | | *ug/l* | *20.0* | | *68* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0527-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.49* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0527-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.8 | 1.0 | ug/l | 20.0 | | 104 | 85-116 | 5 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.45* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *14.3* | | *ug/l* | *20.0* | | *72* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0527-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 67.8 | 1.0 | ug/l | 20.4 | 3.03 | 317 | 65-138 | | | *M1* |
| *Surrogate: 1,4-Dioxane-d8* | *5.89* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *20.4* | | *78* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/20/2013 (13C0527-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 25.3 | 1.0 | ug/l | 20.4 | 3.03 | 109 | 65-138 | 91 | 20 | *N1a* |
| *Surrogate: 1,4-Dioxane-d8* | *5.99* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.4* | | *77* | *27-143* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

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Report Number: PWC0353

Sampled: 03/06/13
Received: 03/06/13

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **M1** | Matrix spike recovery was high; the associated blank spike recovery was acceptable. |
| **N1** | See case narrative. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Sampled: 03/06/13
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## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

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Project Manager

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TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM

[✓] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264



Client Name/Address: ERM
7272 E. Indian School Rd #100
Scottsdale, AZ 85251

Project/PO Number: 0080498

Project Manager: [illegible]

Phone Number: 480-998-2401

Sampler: [illegible]

Fax Number:

Analysis Required: VOCs 8260B; Dissolved Metals 6020

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOCs 8260B | Dissolved Metals 6020 | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OU3-HMR-M-030613 | W | 3 x 40ml 2 x 1L | 5 | 3/6/13 | 0830 | HCl | X | X | | | | PWC0353- | | | 01 | |
| OU3-HMR-M-[illegible] | | | | 3/6/13 | 0837 | | X | X | | | | | | | 02 | |
| OU3-HMR-M-[illegible] | | | | 3/6/13 | 0837 | | X | X | | | | | | | 03 | |
| OU3-HMR-[illegible] | | | | 3/6/13 | 1018 | | X | X | | | | | | | 04 | |
| OU3-HMR-[illegible] | | | | 3/6/13 | 1022 | | X | X | | | | | | | 05 | |
| OU3-EBD-[illegible] | | | | 3/6/13 | [illegible] | | X | X | | | | | | | 06 | |
| OU3-[illegible] | | [illegible] | 1 | 3/6/13 | — | HCl | X | | | | | | | | 07 | |
| | | | | | | | | | | | | | | | | |
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| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [signature] /ERM | 3/6 1447 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [signature] | Date/Time: 3/6/13 1442 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/06/13
Received: 03/06/13
Revised: 04/29/13 07:08

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0354-01 | OU3-12D-D-030613 | Water |

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.
N1a-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised on 042913 due to changes in QAPP.

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0354-01 (OU3-12D-D-030613 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0265 | 20 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Benzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromoform | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Bromomethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon disulfide | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloroform | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Chloromethane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dibromomethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Ethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0354-01 (OU3-12D-D-030613 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Iodomethane | EPA 8260B | 13C0265 | 2.5 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methylene Chloride | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Naphthalene | EPA 8260B | 13C0265 | 5.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Styrene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Toluene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichloroethene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0265 | 0.50 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Xylenes, Total | EPA 8260B | 13C0265 | 1.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| Freon 113 | EPA 8260B | 13C0265 | 2.0 | ND | 1 | 3/7/2013 | 3/7/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0354-01RE1 (OU3-12D-D-030613 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.06 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *27 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *62 %* | | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Blank Analyzed: 03/07/2013 (13C0265-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Blank Analyzed: 03/07/2013 (13C0265-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.2* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Analyzed: 03/07/2013 (13C0265-BS1)** | | | | | | | | | | |
| Acetone | 34.0 | 20 | ug/l | 25.0 | | 136 | 38-150 | | | |
| Benzene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromobenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromochloromethane | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| Bromodichloromethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromoform | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 69-129 | | | |
| Bromomethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 57-138 | | | |
| 2-Butanone (MEK) | 26.1 | 5.0 | ug/l | 25.0 | | 105 | 53-150 | | | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| sec-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| tert-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Carbon disulfide | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 64-145 | | | |
| Carbon tetrachloride | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | | | |
| Chlorobenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Chloroethane | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 66-131 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Chloromethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 56-129 | | | |
| 2-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 4-Chlorotoluene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 34.6 | 5.0 | ug/l | 25.0 | | 138 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Dibromomethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 46-144 | | | |
| 1,1-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2-Dichloroethane | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 66-139 | | | |
| 1,1-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 69-127 | | | |
| 1,2-Dichloropropane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,3-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 2,2-Dichloropropane | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Analyzed: 03/07/2013 (13C0265-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Ethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Hexachlorobutadiene | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 76-145 | | | |
| 2-Hexanone | 31.7 | 2.5 | ug/l | 25.0 | | 127 | 55-150 | | | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Isopropylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 88-141 | | | |
| p-Isopropyltoluene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Methylene Chloride | 22.9 | 1.0 | ug/l | 25.0 | | 92 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 30.7 | 5.0 | ug/l | 25.0 | | 123 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Naphthalene | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 78-143 | | | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Styrene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Tetrachloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Toluene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.1 | 1.0 | ug/l | 25.0 | | 100 | 80-137 | | | |
| 1,1,1-Trichloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 71-131 | | | |
| 1,1,2-Trichloroethane | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Trichloroethene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Trichlorofluoromethane | 32.9 | 0.50 | ug/l | 25.0 | | 132 | 69-150 | | | |
| 1,2,3-Trichloropropane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Vinyl Acetate | 44.6 | 2.0 | ug/l | 25.0 | | 179 | 67-148 | | | *L3* |
| Vinyl chloride | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 53.0 | 1.0 | ug/l | 50.0 | | 106 | 70-130 | | | |
| Freon 113 | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *22.5* | | *ug/l* | *25.0* | | *90* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.3* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/07/2013 (13C0265-BSD1)** | | | | | | | | | | |
| Acetone | 37.3 | 20 | ug/l | 25.0 | | 149 | 38-150 | 9 | 35 | |
| Benzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.3 | 20 | |
| Bromobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 2 | 20 | |
| Bromochloromethane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| Bromodichloromethane | 28.6 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 69-129 | 0.1 | 20 | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 57-138 | 3 | 20 | |
| 2-Butanone (MEK) | 29.9 | 5.0 | ug/l | 25.0 | | 119 | 53-150 | 13 | 35 | |
| n-Butylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 0.8 | 20 | |
| sec-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| tert-Butylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| Carbon disulfide | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 64-145 | 2 | 33 | |
| Carbon tetrachloride | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | 0.5 | 20 | |
| Chlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| Chloroethane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 66-131 | 1 | 20 | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| Chloromethane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 56-129 | 4 | 20 | |
| 2-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| 4-Chlorotoluene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Dibromochloromethane | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 0.4 | 20 | |
| 1,2-Dibromo-3-chloropropane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | 4 | 22 | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 1 | 20 | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 46-144 | 0.1 | 23 | |
| 1,1-Dichloroethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,2-Dichloroethane | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 66-139 | 3 | 20 | |
| 1,1-Dichloroethene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 63-131 | 1 | 22 | |
| cis-1,2-Dichloroethene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | 2 | 20 | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 1,3-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 30.3 | 1.0 | ug/l | 25.0 | | 121 | 69-139 | 3 | 20 | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/07/2013 (13C0265-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 0.6 | 20 | |
| cis-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 0.9 | 20 | |
| trans-1,3-Dichloropropene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | 4 | 20 | |
| Ethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 4 | 20 | |
| Hexachlorobutadiene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 76-145 | 1 | 20 | |
| 2-Hexanone | 33.6 | 2.5 | ug/l | 25.0 | | 134 | 55-150 | 6 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 0.2 | 20 | |
| Isopropylbenzene | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 88-141 | 0.5 | 20 | |
| p-Isopropyltoluene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| Methylene Chloride | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | 1 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 32.4 | 5.0 | ug/l | 25.0 | | 130 | 64-142 | 5 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 5 | 20 | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 78-143 | 5 | 20 | |
| n-Propylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Styrene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 1 | 20 | |
| Tetrachloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 4 | 20 | |
| Toluene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.7 | 20 | |
| 1,2,3-Trichlorobenzene | 23.6 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 3 | 20 | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | 0.4 | 20 | |
| 1,1,1-Trichloroethane | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | 2 | 20 | |
| 1,1,2-Trichloroethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| Trichloroethene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 0.04 | 20 | |
| Trichlorofluoromethane | 32.5 | 0.50 | ug/l | 25.0 | | 130 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| 1,2,4-Trimethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 1 | 20 | |
| 1,3,5-Trimethylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Vinyl Acetate | 46.4 | 2.0 | ug/l | 25.0 | | 185 | 67-148 | 4 | 22 | *L3* |
| Vinyl chloride | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 65-137 | 3 | 20 | |
| Xylenes, Total | 51.5 | 1.0 | ug/l | 50.0 | | 103 | 70-130 | 3 | 20 | |
| Freon 113 | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 65-139 | 3 | 27 | |
| *Surrogate: Dibromofluoromethane* | *23.8* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |

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Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/07/2013 (13C0265-MS1)** | | | | | **Source: PWC0150-03** | | | | | |
| Acetone | 30.5 | 20 | ug/l | 25.0 | ND | 122 | 29-139 | | | |
| Benzene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | | | |
| Bromobenzene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | | | |
| Bromochloromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 64-132 | | | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | | | |
| Bromoform | 27.7 | 1.0 | ug/l | 25.0 | ND | 111 | 60-128 | | | |
| Bromomethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 47-144 | | | |
| 2-Butanone (MEK) | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 31-143 | | | |
| n-Butylbenzene | 30.1 | 0.50 | ug/l | 25.0 | ND | 120 | 69-140 | | | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 72-136 | | | |
| tert-Butylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 74-135 | | | |
| Carbon disulfide | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 45-150 | | | |
| Carbon tetrachloride | 32.5 | 0.50 | ug/l | 25.0 | 0.220 | 129 | 65-147 | | | |
| Chlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 57-139 | | | |
| Chloroform | 28.4 | 0.50 | ug/l | 25.0 | 0.320 | 112 | 63-131 | | | |
| Chloromethane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| Dibromochloromethane | 28.9 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | ND | 146 | 53-145 | | | *M1* |
| 1,2-Dibromoethane (EDB) | 28.1 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromomethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dichlorodifluoromethane | 32.1 | 0.50 | ug/l | 25.0 | 0.150 | 128 | 40-148 | | | |
| 1,1-Dichloroethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 62-130 | | | |
| 1,2-Dichloroethane | 33.8 | 0.50 | ug/l | 25.0 | ND | 135 | 54-147 | | | |
| 1,1-Dichloroethene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 57-137 | | | |
| cis-1,2-Dichloroethene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 65-127 | | | |
| trans-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 62-131 | | | |
| 1,2-Dichloropropane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 68-126 | | | |
| 1,3-Dichloropropane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 68-129 | | | |
| 2,2-Dichloropropane | 31.3 | 1.0 | ug/l | 25.0 | ND | 125 | 60-146 | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/07/2013 (13C0265-MS1)** | | | | | **Source: PWC0150-03** | | | | | |
| 1,1-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 64-134 | | | |
| cis-1,3-Dichloropropene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | | | |
| trans-1,3-Dichloropropene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 58-136 | | | |
| Ethylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 74-134 | | | |
| Hexachlorobutadiene | 26.6 | 1.0 | ug/l | 25.0 | ND | 106 | 69-150 | | | |
| 2-Hexanone | 29.9 | 2.5 | ug/l | 25.0 | ND | 120 | 40-142 | | | |
| Iodomethane | 29.0 | 2.5 | ug/l | 25.0 | ND | 116 | 53-150 | | | |
| Isopropylbenzene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 80-146 | | | |
| p-Isopropyltoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-133 | | | |
| Methylene Chloride | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 31.8 | 5.0 | ug/l | 25.0 | ND | 127 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 67-138 | | | |
| Naphthalene | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 67-146 | | | |
| n-Propylbenzene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 74-140 | | | |
| Styrene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | | | |
| Tetrachloroethene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 67-131 | | | |
| Toluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 74-138 | | | |
| 1,1,1-Trichloroethane | 31.9 | 0.50 | ug/l | 25.0 | ND | 128 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | | | |
| Trichloroethene | 31.3 | 0.50 | ug/l | 25.0 | 3.18 | 112 | 66-132 | | | |
| Trichlorofluoromethane | 35.5 | 0.50 | ug/l | 25.0 | ND | 142 | 62-150 | | | |
| 1,2,3-Trichloropropane | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | | | |
| Vinyl Acetate | 44.5 | 2.0 | ug/l | 25.0 | ND | 178 | 47-150 | | | *N1* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 54.2 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/07/2013 (13C0265-MSD1)** | | | | | **Source: PWC0150-03** | | | | | |
| Acetone | 29.4 | 20 | ug/l | 25.0 | ND | 118 | 29-139 | 4 | 35 | |
| Benzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | 0.6 | 32 | |
| Bromobenzene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 70-130 | 3 | 28 | |
| Bromochloromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 64-132 | 0.04 | 35 | |
| Bromodichloromethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 117 | 63-138 | 0.4 | 31 | |
| Bromoform | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 60-128 | 3 | 31 | |
| Bromomethane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 31-143 | 5 | 35 | |
| n-Butylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | 4 | 33 | |
| tert-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-135 | 2 | 32 | |
| Carbon disulfide | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 45-150 | 4 | 35 | |
| Carbon tetrachloride | 31.4 | 0.50 | ug/l | 25.0 | 0.220 | 125 | 65-147 | 4 | 35 | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 1 | 30 | |
| Chloroethane | 27.1 | 1.0 | ug/l | 25.0 | ND | 108 | 57-139 | 2 | 35 | |
| Chloroform | 27.9 | 0.50 | ug/l | 25.0 | 0.320 | 110 | 63-131 | 2 | 33 | |
| Chloromethane | 28.3 | 1.0 | ug/l | 25.0 | ND | 113 | 47-134 | 2 | 35 | |
| 2-Chlorotoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 71-131 | 3 | 29 | |
| 4-Chlorotoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-134 | 3 | 33 | |
| 1,2-Dibromo-3-chloropropane | 35.9 | 5.0 | ug/l | 25.0 | ND | 143 | 53-145 | 2 | 35 | |
| 1,2-Dibromoethane (EDB) | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 1 | 33 | |
| Dibromomethane | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | 0.04 | 35 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 3 | 27 | |
| 1,3-Dichlorobenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 4 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 32.0 | 0.50 | ug/l | 25.0 | 0.150 | 127 | 40-148 | 0.3 | 35 | |
| 1,1-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 62-130 | 3 | 34 | |
| 1,2-Dichloroethane | 32.9 | 0.50 | ug/l | 25.0 | ND | 132 | 54-147 | 3 | 35 | |
| 1,1-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 65-127 | 5 | 34 | |
| trans-1,2-Dichloroethene | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 62-131 | 3 | 35 | |
| 1,2-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-126 | 0.2 | 32 | |
| 1,3-Dichloropropane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 68-129 | 3 | 33 | |
| 2,2-Dichloropropane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 60-146 | 12 | 35 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0265 Extracted: 03/07/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/07/2013 (13C0265-MSD1)** | | | | | **Source: PWC0150-03** | | | | | |
| 1,1-Dichloropropene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 64-134 | 3 | 34 | |
| cis-1,3-Dichloropropene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | 0.8 | 35 | |
| trans-1,3-Dichloropropene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 58-136 | 0.4 | 35 | |
| Ethylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-134 | 1 | 32 | |
| Hexachlorobutadiene | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 69-150 | 1 | 32 | |
| 2-Hexanone | 30.1 | 2.5 | ug/l | 25.0 | ND | 120 | 40-142 | 0.7 | 35 | |
| Iodomethane | 28.0 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | 4 | 35 | |
| Isopropylbenzene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 80-146 | 3 | 32 | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | 3 | 32 | |
| Methylene Chloride | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 55-133 | 5 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 32.5 | 5.0 | ug/l | 25.0 | ND | 130 | 52-143 | 2 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 67-138 | 5 | 21 | |
| Naphthalene | 28.1 | 5.0 | ug/l | 25.0 | ND | 112 | 67-146 | 1 | 29 | |
| n-Propylbenzene | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 74-140 | 3 | 32 | |
| Styrene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | 0.7 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 1 | 30 | |
| 1,1,2,2-Tetrachloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-137 | 2 | 32 | |
| Tetrachloroethene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 67-131 | 0.3 | 31 | |
| Toluene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 65-138 | 3 | 33 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 74-138 | 2 | 26 | |
| 1,1,1-Trichloroethane | 31.5 | 0.50 | ug/l | 25.0 | ND | 126 | 64-138 | 1 | 35 | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 63-132 | 2 | 35 | |
| Trichloroethene | 30.8 | 0.50 | ug/l | 25.0 | 3.18 | 111 | 66-132 | 1 | 29 | |
| Trichlorofluoromethane | 34.4 | 0.50 | ug/l | 25.0 | ND | 138 | 62-150 | 3 | 35 | |
| 1,2,3-Trichloropropane | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 68-130 | 7 | 32 | |
| 1,2,4-Trimethylbenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | 3 | 31 | |
| 1,3,5-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 66-137 | 3 | 30 | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | 4 | 35 | *N1* |
| Vinyl chloride | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 55-146 | 1 | 35 | |
| Xylenes, Total | 54.3 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | 0.1 | 31 | |
| Freon 113 | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0527 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0527-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *4.63* | | *ug/l* | *20.0* | | *23* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *13.6* | | *ug/l* | *20.0* | | *68* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0527-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.49* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0527-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.8 | 1.0 | ug/l | 20.0 | | 104 | 85-116 | 5 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.45* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *14.3* | | *ug/l* | *20.0* | | *72* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0527-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 67.8 | 1.0 | ug/l | 20.4 | 3.03 | 317 | 65-138 | | | *M1* |
| *Surrogate: 1,4-Dioxane-d8* | *5.89* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *20.4* | | *78* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/20/2013 (13C0527-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 25.3 | 1.0 | ug/l | 20.4 | 3.03 | 109 | 65-138 | 91 | 20 | *N1a* |
| *Surrogate: 1,4-Dioxane-d8* | *5.99* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.4* | | *77* | *27-143* | | | |

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/06/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0354 | Received: 03/06/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **M1** | Matrix spike recovery was high; the associated blank spike recovery was acceptable. |
| **N1** | See case narrative. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0354

Sampled: 03/06/13
Received: 03/06/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name/Address: ERM [illegible]

Project/PO Number: [illegible]

Project Manager: [illegible]

Phone Number: [illegible]

Sampler: [illegible]

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | 5 | 3/6/13 | 1435 | [illegible] | X | X | | | PWC0354- | | | 01 | | Level IV |
| | | | | | | | | | | | | | | | | |
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| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [illegible] ERM | 3/6 1447 | | | same day _____ 72 hours _____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours _____ 5 days _____ |
| | | | | 48 hours _____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [illegible] | Date/Time: 3/6/13 1442 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/07/13
Received: 03/07/13
Revised: 04/23/13 16:15

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0492-01 | OU3-6D-D-030713 -MS/MSD | Water |
| PWC0492-02 | OU3-7M2-M-030713 | Water |
| PWC0492-03 | OU3-7M2-M-030713 -Q1 | Water |
| PWC0492-04 | OU3-7S-S-030713 | Water |
| PWC0492-05 | GB-EB3-030713 | Water |
| PWC0492-06 | GW-L1-3-030713 | Water |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 1°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.<br>H4-Sample was extracted past required extraction holding time, but analyzed within analysis holding time for confirmation only. The original extraction had low surrogates; both sets of data reported. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.<br>S7-Surrogate recovery was below acceptance limits. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 04/23/13 due to QAPP changes. |

Reviewed By:

Tina Paulauskas

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-01 (OU3-6D-D-030713 -MS/MSD - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroform | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3, N1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-01 (OU3-6D-D-030713 -MS/MSD - Water) - cont.** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3, N1 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *92 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0492-02 (OU3-7M2-M-030713 - Water)** | | | | **Sampled: 03/07/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **0.54** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-02 (OU3-7M2-M-030713 - Water) - cont.** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **1.4** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **0.87** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-03 (OU3-7M2-M-030713 -Q1 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **0.54** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0492-03 (OU3-7M2-M-030713 -Q1 - Water) - cont.** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **1.3** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **0.77** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *93 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-04 (OU3-7S-S-030713 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.4** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0492-04 (OU3-7S-S-030713 - Water) - cont.** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **3.0** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-05 (GB-EB3-030713 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0383 | 0.50 | **2.1** | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.3** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0383 | 0.50 | **2.7** | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-05 (GB-EB3-030713 - Water) - cont.** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-06 (GW-L1-3-030713 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroform | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0492-06 (GW-L1-3-030713 - Water) - cont.** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0492-01 (OU3-6D-D-030713 -MS/MSD - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.06 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *36 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *93 %* | | | | |
| **Sample ID: PWC0492-02 (OU3-7M2-M-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.03 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *33 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *85 %* | | | | |
| **Sample ID: PWC0492-03 (OU3-7M2-M-030713 -Q1 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.05 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *35 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *93 %* | | | | |
| **Sample ID: PWC0492-04 (OU3-7S-S-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.06 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *32 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *82 %* | | | | |
| **Sample ID: PWC0492-05 (GB-EB3-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.1 | ND | 1.12 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *8 %* | | | | *S7* |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *17 %* | | | | *S7* |
| **Sample ID: PWC0492-05RE1 (GB-EB3-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | **H4** |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.2 | ND | 1.22 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *79 %* | | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0383-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | *V1* |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0383-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.6* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.8* | | *ug/l* | *25.0* | | *91* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Analyzed: 03/11/2013 (13C0383-BS1)** | | | | | | | | | | |
| Acetone | 35.7 | 20 | ug/l | 25.0 | | 143 | 38-150 | | | *V1* |
| Benzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Bromobenzene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Bromochloromethane | 22.9 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| Bromodichloromethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromoform | 28.6 | 1.0 | ug/l | 25.0 | | 114 | 69-129 | | | |
| Bromomethane | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 57-138 | | | |
| 2-Butanone (MEK) | 28.9 | 5.0 | ug/l | 25.0 | | 116 | 53-150 | | | |
| n-Butylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | | | |
| sec-Butylbenzene | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| tert-Butylbenzene | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Carbon disulfide | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 64-145 | | | |
| Carbon tetrachloride | 32.7 | 0.50 | ug/l | 25.0 | | 131 | 70-143 | | | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Chloroethane | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 66-131 | | | |
| Chloroform | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Chloromethane | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 56-129 | | | |
| 2-Chlorotoluene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromochloromethane | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 40.5 | 5.0 | ug/l | 25.0 | | 162 | 63-146 | | | *V1, L3* |
| 1,2-Dibromoethane (EDB) | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromomethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Dichlorodifluoromethane | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 46-144 | | | |
| 1,1-Dichloroethane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2-Dichloroethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 66-139 | | | |
| 1,1-Dichloroethene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 63-131 | | | |
| cis-1,2-Dichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 69-127 | | | |
| 1,2-Dichloropropane | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,3-Dichloropropane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Analyzed: 03/11/2013 (13C0383-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Ethylbenzene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Hexachlorobutadiene | 28.0 | 1.0 | ug/l | 25.0 | | 112 | 76-145 | | | |
| 2-Hexanone | 34.7 | 2.5 | ug/l | 25.0 | | 139 | 55-150 | | | |
| Iodomethane | 28.4 | 2.5 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Isopropylbenzene | 31.5 | 0.50 | ug/l | 25.0 | | 126 | 88-141 | | | |
| p-Isopropyltoluene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Methylene Chloride | 22.0 | 1.0 | ug/l | 25.0 | | 88 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 33.0 | 5.0 | ug/l | 25.0 | | 132 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 29.8 | 5.0 | ug/l | 25.0 | | 119 | 78-143 | | | |
| n-Propylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | | | |
| Styrene | 28.1 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Tetrachloroethene | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 80-137 | | | |
| 1,1,1-Trichloroethane | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Trichloroethene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Trichlorofluoromethane | 33.9 | 0.50 | ug/l | 25.0 | | 136 | 69-150 | | | |
| 1,2,3-Trichloropropane | 29.9 | 2.0 | ug/l | 25.0 | | 119 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Vinyl Acetate | 42.1 | 2.0 | ug/l | 25.0 | | 168 | 67-148 | | | *L3* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | | | |
| Xylenes, Total | 55.8 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *21.1* | | *ug/l* | *25.0* | | *84* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0383-BSD1)** | | | | | | | | | | |
| Acetone | 34.5 | 20 | ug/l | 25.0 | | 138 | 38-150 | 3 | 35 | *V1* |
| Benzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| Bromobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Bromochloromethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Bromodichloromethane | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 0.2 | 20 | |
| Bromoform | 27.3 | 1.0 | ug/l | 25.0 | | 109 | 69-129 | 5 | 20 | |
| Bromomethane | 24.6 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 5 | 20 | |
| 2-Butanone (MEK) | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 53-150 | 2 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 5 | 20 | |
| sec-Butylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 4 | 20 | |
| Carbon disulfide | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 31.3 | 0.50 | ug/l | 25.0 | | 125 | 70-143 | 4 | 20 | |
| Chlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 3 | 20 | |
| Chloroethane | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 66-131 | 3 | 20 | |
| Chloroform | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 0.2 | 20 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 56-129 | 7 | 20 | |
| 2-Chlorotoluene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 2 | 20 | |
| 4-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Dibromochloromethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 0.7 | 20 | |
| 1,2-Dibromo-3-chloropropane | 39.5 | 5.0 | ug/l | 25.0 | | 158 | 63-146 | 3 | 22 | *V1, L3* |
| 1,2-Dibromoethane (EDB) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| Dibromomethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 3 | 20 | |
| Dichlorodifluoromethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 46-144 | 6 | 23 | |
| 1,1-Dichloroethane | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 0.9 | 20 | |
| 1,2-Dichloroethane | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 66-139 | 2 | 20 | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 63-131 | 6 | 22 | |
| cis-1,2-Dichloroethene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 1 | 20 | |
| trans-1,2-Dichloroethene | 25.1 | 0.50 | ug/l | 25.0 | | 101 | 69-127 | 0.9 | 20 | |
| 1,2-Dichloropropane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 0.4 | 20 | |
| 1,3-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 29.4 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | 2 | 20 | |

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Sampled: 03/07/13
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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0383-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 1 | 20 | |
| trans-1,3-Dichloropropene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 0 | 20 | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 4 | 20 | |
| Hexachlorobutadiene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 76-145 | 6 | 20 | |
| 2-Hexanone | 33.1 | 2.5 | ug/l | 25.0 | | 132 | 55-150 | 5 | 35 | |
| Iodomethane | 27.9 | 2.5 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Isopropylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 88-141 | 4 | 20 | |
| p-Isopropyltoluene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Methylene Chloride | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 63-128 | 2 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 33.0 | 5.0 | ug/l | 25.0 | | 132 | 64-142 | 0.2 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 0.2 | 20 | |
| Naphthalene | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 78-143 | 3 | 20 | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 4 | 20 | |
| Styrene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 3 | 20 | |
| Tetrachloroethene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 6 | 20 | |
| Toluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 79-139 | 1 | 20 | |
| 1,2,4-Trichlorobenzene | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 80-137 | 2 | 20 | |
| 1,1,1-Trichloroethane | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 71-131 | 3 | 20 | |
| 1,1,2-Trichloroethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Trichloroethene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Trichlorofluoromethane | 33.5 | 0.50 | ug/l | 25.0 | | 134 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 3 | 20 | |
| 1,3,5-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Vinyl Acetate | 41.0 | 2.0 | ug/l | 25.0 | | 164 | 67-148 | 3 | 22 | *L3* |
| Vinyl chloride | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 65-137 | 8 | 20 | |
| Xylenes, Total | 53.3 | 1.0 | ug/l | 50.0 | | 107 | 70-130 | 5 | 20 | |
| Freon 113 | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 65-139 | 4 | 27 | |
| *Surrogate: Dibromofluoromethane* | *22.3* | | *ug/l* | *25.0* | | *89* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2013 (13C0383-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| Acetone | 22.2 | 20 | ug/l | 25.0 | ND | 89 | 29-139 | | | *V1* |
| Benzene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 68-131 | | | |
| Bromobenzene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 70-130 | | | |
| Bromochloromethane | 21.0 | 0.50 | ug/l | 25.0 | ND | 84 | 64-132 | | | |
| Bromodichloromethane | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 63-138 | | | |
| Bromoform | 23.9 | 1.0 | ug/l | 25.0 | ND | 95 | 60-128 | | | |
| Bromomethane | 21.0 | 1.0 | ug/l | 25.0 | ND | 84 | 47-144 | | | |
| 2-Butanone (MEK) | 21.5 | 5.0 | ug/l | 25.0 | ND | 86 | 31-143 | | | |
| n-Butylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | | | |
| sec-Butylbenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | | | |
| tert-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 74-135 | | | |
| Carbon disulfide | 20.0 | 1.0 | ug/l | 25.0 | ND | 80 | 45-150 | | | |
| Carbon tetrachloride | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 65-147 | | | |
| Chlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Chloroethane | 22.0 | 1.0 | ug/l | 25.0 | ND | 88 | 57-139 | | | |
| Chloroform | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 63-131 | | | |
| Chloromethane | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 47-134 | | | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | ND | 95 | 71-131 | | | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| Dibromochloromethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 31.3 | 5.0 | ug/l | 25.0 | ND | 125 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| Dibromomethane | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 66-136 | | | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-130 | | | |
| 1,3-Dichlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Dichlorodifluoromethane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 40-148 | | | |
| 1,1-Dichloroethane | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 62-130 | | | |
| 1,2-Dichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 57-137 | | | |
| cis-1,2-Dichloroethene | 22.3 | 0.50 | ug/l | 25.0 | ND | 89 | 65-127 | | | |
| trans-1,2-Dichloroethene | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 62-131 | | | |
| 1,2-Dichloropropane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 68-126 | | | |
| 1,3-Dichloropropane | 23.9 | 0.50 | ug/l | 25.0 | ND | 95 | 68-129 | | | |
| 2,2-Dichloropropane | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2013 (13C0383-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | ND | 87 | 64-134 | | | |
| cis-1,3-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 58-136 | | | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | | | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | | | |
| 2-Hexanone | 24.6 | 2.5 | ug/l | 25.0 | ND | 98 | 40-142 | | | |
| Iodomethane | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 53-150 | | | |
| Isopropylbenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 106 | 80-146 | | | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 70-133 | | | |
| Methylene Chloride | 19.5 | 1.0 | ug/l | 25.0 | ND | 78 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 27.7 | 5.0 | ug/l | 25.0 | ND | 111 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-138 | | | |
| Naphthalene | 23.4 | 5.0 | ug/l | 25.0 | ND | 94 | 67-146 | | | |
| n-Propylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | | | |
| Styrene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 63-137 | | | |
| Tetrachloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | | | |
| Toluene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 20.8 | 1.0 | ug/l | 25.0 | ND | 83 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 23.1 | 1.0 | ug/l | 25.0 | ND | 93 | 74-138 | | | |
| 1,1,1-Trichloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 64-138 | | | |
| 1,1,2-Trichloroethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 63-132 | | | |
| Trichloroethene | 23.8 | 0.50 | ug/l | 25.0 | 0.260 | 94 | 66-132 | | | |
| Trichlorofluoromethane | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 62-150 | | | |
| 1,2,3-Trichloropropane | 22.8 | 2.0 | ug/l | 25.0 | ND | 91 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | | | |
| Vinyl Acetate | 39.5 | 2.0 | ug/l | 25.0 | ND | 158 | 47-150 | | | *N1* |
| Vinyl chloride | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 55-146 | | | |
| Xylenes, Total | 46.9 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | | | |
| Freon 113 | 23.1 | 2.0 | ug/l | 25.0 | ND | 92 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/11/2013 (13C0383-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| Acetone | 27.4 | 20 | ug/l | 25.0 | ND | 110 | 29-139 | 21 | 35 | *V1* |
| Benzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 68-131 | 15 | 32 | |
| Bromobenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 14 | 28 | |
| Bromochloromethane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 64-132 | 14 | 35 | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | 14 | 31 | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | ND | 113 | 60-128 | 17 | 31 | |
| Bromomethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 26.4 | 5.0 | ug/l | 25.0 | ND | 106 | 31-143 | 20 | 35 | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 13 | 32 | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-135 | 13 | 32 | |
| Carbon disulfide | 23.2 | 1.0 | ug/l | 25.0 | ND | 93 | 45-150 | 15 | 35 | |
| Carbon tetrachloride | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 65-147 | 16 | 35 | |
| Chlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 15 | 30 | |
| Chloroethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | 15 | 35 | |
| Chloroform | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 63-131 | 14 | 33 | |
| Chloromethane | 25.1 | 1.0 | ug/l | 25.0 | ND | 100 | 47-134 | 14 | 35 | |
| 2-Chlorotoluene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | 16 | 29 | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | 16 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.7 | 5.0 | ug/l | 25.0 | ND | 147 | 53-145 | 16 | 35 | *V1, N1* |
| 1,2-Dibromoethane (EDB) | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 15 | 33 | |
| Dibromomethane | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 66-136 | 16 | 35 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 12 | 27 | |
| 1,3-Dichlorobenzene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | 14 | 28 | |
| 1,4-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 13 | 26 | |
| Dichlorodifluoromethane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 40-148 | 15 | 35 | |
| 1,1-Dichloroethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 62-130 | 13 | 34 | |
| 1,2-Dichloroethane | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 54-147 | 16 | 35 | |
| 1,1-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 57-137 | 14 | 35 | |
| cis-1,2-Dichloroethene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 65-127 | 15 | 34 | |
| trans-1,2-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 62-131 | 11 | 35 | |
| 1,2-Dichloropropane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 68-126 | 13 | 32 | |
| 1,3-Dichloropropane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | 12 | 33 | |
| 2,2-Dichloropropane | 29.7 | 1.0 | ug/l | 25.0 | ND | 119 | 60-146 | 10 | 35 | |

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/11/2013 (13C0383-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,1-Dichloropropene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 64-134 | 15 | 34 | |
| cis-1,3-Dichloropropene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 63-135 | 15 | 35 | |
| trans-1,3-Dichloropropene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 58-136 | 15 | 35 | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | 14 | 32 | |
| Hexachlorobutadiene | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 69-150 | 10 | 32 | |
| 2-Hexanone | 31.5 | 2.5 | ug/l | 25.0 | ND | 126 | 40-142 | 25 | 35 | |
| Iodomethane | 27.0 | 2.5 | ug/l | 25.0 | ND | 108 | 53-150 | 12 | 35 | |
| Isopropylbenzene | 30.5 | 0.50 | ug/l | 25.0 | ND | 122 | 80-146 | 14 | 32 | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | 12 | 32 | |
| Methylene Chloride | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 55-133 | 14 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 34.6 | 5.0 | ug/l | 25.0 | ND | 138 | 52-143 | 22 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 67-138 | 16 | 21 | |
| Naphthalene | 28.0 | 5.0 | ug/l | 25.0 | ND | 112 | 67-146 | 18 | 29 | |
| n-Propylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 74-140 | 15 | 32 | |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 43-144 | 13 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | 13 | 30 | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | 20 | 32 | |
| Tetrachloroethene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 67-131 | 14 | 31 | |
| Toluene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | 16 | 33 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 74-139 | 12 | 26 | |
| 1,2,4-Trichlorobenzene | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 74-138 | 9 | 26 | |
| 1,1,1-Trichloroethane | 30.1 | 0.50 | ug/l | 25.0 | ND | 120 | 64-138 | 14 | 35 | |
| 1,1,2-Trichloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | 17 | 35 | |
| Trichloroethene | 28.3 | 0.50 | ug/l | 25.0 | 0.260 | 112 | 66-132 | 17 | 29 | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | ND | 130 | 62-150 | 13 | 35 | |
| 1,2,3-Trichloropropane | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 68-130 | 24 | 32 | |
| 1,2,4-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | 14 | 31 | |
| 1,3,5-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 113 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 47.4 | 2.0 | ug/l | 25.0 | ND | 190 | 47-150 | 18 | 35 | *N1* |
| Vinyl chloride | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 16 | 35 | |
| Xylenes, Total | 54.3 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | 15 | 31 | |
| Freon 113 | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 52-149 | 15 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.5* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0419 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0419-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.38* | | *ug/l* | *20.0* | | *37* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.9* | | *ug/l* | *20.0* | | *95* | *27-143* | | | |
| **LCS Analyzed: 03/16/2013 (13C0419-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.12* | | *ug/l* | *20.0* | | *36* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.4* | | *ug/l* | *20.0* | | *97* | *28-150* | | | |
| **LCS Dup Analyzed: 03/16/2013 (13C0419-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.6 | 1.0 | ug/l | 20.0 | | 108 | 85-116 | 4 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *7.51* | | *ug/l* | *20.0* | | *38* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.9* | | *ug/l* | *20.0* | | *95* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/16/2013 (13C0419-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,4-Dioxane | 23.9 | 1.0 | ug/l | 21.7 | ND | 110 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.67* | | *ug/l* | *21.7* | | *35* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.4* | | *ug/l* | *21.7* | | *89* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/16/2013 (13C0419-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,4-Dioxane | 23.6 | 1.0 | ug/l | 21.7 | ND | 108 | 65-138 | 1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *8.78* | | *ug/l* | *21.7* | | *40* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *22.0* | | *ug/l* | *21.7* | | *101* | *27-143* | | | |
| **Batch: 13C0690 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/23/2013 (13C0690-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.18* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.9* | | *ug/l* | *20.0* | | *90* | *27-143* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0690 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Analyzed: 03/23/2013 (13C0690-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 112 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.23* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.8* | | *ug/l* | *20.0* | | *84* | *28-150* | | | |
| **LCS Dup Analyzed: 03/23/2013 (13C0690-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | 0.1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.64* | | *ug/l* | *20.0* | | *28* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/23/2013 (13C0690-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,4-Dioxane | 24.2 | 1.0 | ug/l | 21.2 | ND | 114 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.26* | | *ug/l* | *21.2* | | *30* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.4* | | *ug/l* | *21.2* | | *87* | *27-143* | | | |
| **Matrix Spike Analyzed: 03/23/2013 (13C0690-MS2)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,4-Dioxane | 26.2 | 1.0 | ug/l | 22.0 | 2.09 | 110 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.53* | | *ug/l* | *22.0* | | *25* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *22.0* | | *73* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/23/2013 (13C0690-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,4-Dioxane | 23.4 | 1.0 | ug/l | 20.9 | ND | 112 | 65-138 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.33* | | *ug/l* | *20.9* | | *25* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.9* | | *79* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/23/2013 (13C0690-MSD2)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,4-Dioxane | 25.4 | 1.0 | ug/l | 21.3 | 2.09 | 110 | 65-138 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.78* | | *ug/l* | *21.3* | | *32* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.7* | | *ug/l* | *21.3* | | *97* | *27-143* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **H4** | Sample was extracted past required extraction holding time, but analyzed within analysis holding time. |
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **S7** | Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0492

Sampled: 03/07/13
Received: 03/07/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

## CHAIN OF CUSTODY FORM PWC 0492

[x] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E. Indian School Rd #100
Scottsdale AZ 85251

Project/PO Number: OB
0056493

Project Manager: Jason.Kiler@erm.com

Phone Number: 480-998-2461

Sampler: Adam Nagle Adam.Nagle@erm.com 602-249-8817

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260B | SVOC 8270C-SIM | Cr(VI) 7196A | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB3-GD-B3-030713-MS/MSD | W | Glass Vial | 10 | 3/7/13 | 0903 | HCL | X | X | X | | -01 | | | | | |
| OB3-7M2-M-030713 | | Glass Vial | 5 | 3/7/13 | 1150 | | X | X | | | 02 | | | | | |
| OB3-7M2-M-030713-Q | | | | 3/7/13 | 1159 | | X | X | | | 03 | | | | | |
| OB3-7B-S-030713 | | | | 3/7/13 | 1600 | | X | X | | | 04 | | | | | |
| GW-EB3-030713 | | | | 3/7/13 | 1540 | | X | X | | | 05 | | | | | |
| GW-LB-3-030713 | | Glass | 1 | 3/7/13 | — | HCL | X | | | | 06 | | | | | Trip Blank |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| CRN/ERM | 3/7/13 1622 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: Sharon Malone | Date/Time: 3/8/13 1622 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.4°C + 0.5°C

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/07/13
Received: 03/07/13
Revised: 04/23/13 16:29

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0493-01 | OU3-6M-M-030713 | Water |
| PWC0493-02 | OU3-17S-S-030713 | Water |
| PWC0493-03 | OU3-4S-S-030713 | Water |

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised on 04/23/13 due to QAPP changes.

Reviewed By:

Tina Paulauskas

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0493-01 (OU3-6M-M-030713 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **0.79** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0493-01 (OU3-6M-M-030713 - Water) - cont.** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **0.65** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *93 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0493-02 (OU3-17S-S-030713 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **2.9** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0493-02 (OU3-17S-S-030713 - Water) - cont.** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **0.63** | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichlorofluoromethane** | EPA 8260B | 13C0383 | 0.50 | **0.70** | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0493-03 (OU3-4S-S-030713 - Water)** **Sampled: 03/07/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.1** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0493-03 (OU3-4S-S-030713 - Water) - cont.** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **2.5** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0493-01 (OU3-6M-M-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.03 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *36 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *94 %* | | | | |
| **Sample ID: PWC0493-02 (OU3-17S-S-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.09 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *36 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *88 %* | | | | |
| **Sample ID: PWC0493-03 (OU3-4S-S-030713 - Water)** | | | | | **Sampled: 03/07/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0419 | 1.0 | ND | 1.04 | 3/11/2013 | 3/16/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *37 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *92 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0383-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | *V1* |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0383-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.6* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.8* | | *ug/l* | *25.0* | | *91* | *70-130* | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Analyzed: 03/11/2013 (13C0383-BS1)** | | | | | | | | | | |
| Acetone | 35.7 | 20 | ug/l | 25.0 | | 143 | 38-150 | | | *V1* |
| Benzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Bromobenzene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Bromochloromethane | 22.9 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| Bromodichloromethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromoform | 28.6 | 1.0 | ug/l | 25.0 | | 114 | 69-129 | | | |
| Bromomethane | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 57-138 | | | |
| 2-Butanone (MEK) | 28.9 | 5.0 | ug/l | 25.0 | | 116 | 53-150 | | | |
| n-Butylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | | | |
| sec-Butylbenzene | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| tert-Butylbenzene | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Carbon disulfide | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 64-145 | | | |
| Carbon tetrachloride | 32.7 | 0.50 | ug/l | 25.0 | | 131 | 70-143 | | | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Chloroethane | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 66-131 | | | |
| Chloroform | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Chloromethane | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 56-129 | | | |
| 2-Chlorotoluene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromochloromethane | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 40.5 | 5.0 | ug/l | 25.0 | | 162 | 63-146 | | | *V1, L3* |
| 1,2-Dibromoethane (EDB) | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromomethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Dichlorodifluoromethane | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 46-144 | | | |
| 1,1-Dichloroethane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2-Dichloroethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 66-139 | | | |
| 1,1-Dichloroethene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 63-131 | | | |
| cis-1,2-Dichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 69-127 | | | |
| 1,2-Dichloropropane | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,3-Dichloropropane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Analyzed: 03/11/2013 (13C0383-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Ethylbenzene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Hexachlorobutadiene | 28.0 | 1.0 | ug/l | 25.0 | | 112 | 76-145 | | | |
| 2-Hexanone | 34.7 | 2.5 | ug/l | 25.0 | | 139 | 55-150 | | | |
| Iodomethane | 28.4 | 2.5 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Isopropylbenzene | 31.5 | 0.50 | ug/l | 25.0 | | 126 | 88-141 | | | |
| p-Isopropyltoluene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Methylene Chloride | 22.0 | 1.0 | ug/l | 25.0 | | 88 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 33.0 | 5.0 | ug/l | 25.0 | | 132 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 29.8 | 5.0 | ug/l | 25.0 | | 119 | 78-143 | | | |
| n-Propylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | | | |
| Styrene | 28.1 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Tetrachloroethene | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 80-137 | | | |
| 1,1,1-Trichloroethane | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Trichloroethene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Trichlorofluoromethane | 33.9 | 0.50 | ug/l | 25.0 | | 136 | 69-150 | | | |
| 1,2,3-Trichloropropane | 29.9 | 2.0 | ug/l | 25.0 | | 119 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Vinyl Acetate | 42.1 | 2.0 | ug/l | 25.0 | | 168 | 67-148 | | | *L3* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | | | |
| Xylenes, Total | 55.8 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *21.1* | | *ug/l* | *25.0* | | *84* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0383-BSD1)** | | | | | | | | | | |
| Acetone | 34.5 | 20 | ug/l | 25.0 | | 138 | 38-150 | 3 | 35 | *V1* |
| Benzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| Bromobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Bromochloromethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Bromodichloromethane | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 0.2 | 20 | |
| Bromoform | 27.3 | 1.0 | ug/l | 25.0 | | 109 | 69-129 | 5 | 20 | |
| Bromomethane | 24.6 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 5 | 20 | |
| 2-Butanone (MEK) | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 53-150 | 2 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 5 | 20 | |
| sec-Butylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 4 | 20 | |
| Carbon disulfide | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 31.3 | 0.50 | ug/l | 25.0 | | 125 | 70-143 | 4 | 20 | |
| Chlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 3 | 20 | |
| Chloroethane | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 66-131 | 3 | 20 | |
| Chloroform | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 0.2 | 20 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 56-129 | 7 | 20 | |
| 2-Chlorotoluene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 2 | 20 | |
| 4-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Dibromochloromethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 0.7 | 20 | |
| 1,2-Dibromo-3-chloropropane | 39.5 | 5.0 | ug/l | 25.0 | | 158 | 63-146 | 3 | 22 | *V1, L3* |
| 1,2-Dibromoethane (EDB) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| Dibromomethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 3 | 20 | |
| Dichlorodifluoromethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 46-144 | 6 | 23 | |
| 1,1-Dichloroethane | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 0.9 | 20 | |
| 1,2-Dichloroethane | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 66-139 | 2 | 20 | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 63-131 | 6 | 22 | |
| cis-1,2-Dichloroethene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 1 | 20 | |
| trans-1,2-Dichloroethene | 25.1 | 0.50 | ug/l | 25.0 | | 101 | 69-127 | 0.9 | 20 | |
| 1,2-Dichloropropane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 0.4 | 20 | |
| 1,3-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 29.4 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | 2 | 20 | |

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Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0383-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 1 | 20 | |
| trans-1,3-Dichloropropene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 0 | 20 | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 4 | 20 | |
| Hexachlorobutadiene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 76-145 | 6 | 20 | |
| 2-Hexanone | 33.1 | 2.5 | ug/l | 25.0 | | 132 | 55-150 | 5 | 35 | |
| Iodomethane | 27.9 | 2.5 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Isopropylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 88-141 | 4 | 20 | |
| p-Isopropyltoluene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Methylene Chloride | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 63-128 | 2 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 33.0 | 5.0 | ug/l | 25.0 | | 132 | 64-142 | 0.2 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 0.2 | 20 | |
| Naphthalene | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 78-143 | 3 | 20 | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 4 | 20 | |
| Styrene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 3 | 20 | |
| Tetrachloroethene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 6 | 20 | |
| Toluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 79-139 | 1 | 20 | |
| 1,2,4-Trichlorobenzene | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 80-137 | 2 | 20 | |
| 1,1,1-Trichloroethane | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 71-131 | 3 | 20 | |
| 1,1,2-Trichloroethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Trichloroethene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Trichlorofluoromethane | 33.5 | 0.50 | ug/l | 25.0 | | 134 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 3 | 20 | |
| 1,3,5-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Vinyl Acetate | 41.0 | 2.0 | ug/l | 25.0 | | 164 | 67-148 | 3 | 22 | *L3* |
| Vinyl chloride | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 65-137 | 8 | 20 | |
| Xylenes, Total | 53.3 | 1.0 | ug/l | 50.0 | | 107 | 70-130 | 5 | 20 | |
| Freon 113 | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 65-139 | 4 | 27 | |
| *Surrogate: Dibromofluoromethane* | *22.3* | | *ug/l* | *25.0* | | *89* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2013 (13C0383-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| Acetone | 22.2 | 20 | ug/l | 25.0 | ND | 89 | 29-139 | | | *V1* |
| Benzene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 68-131 | | | |
| Bromobenzene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 70-130 | | | |
| Bromochloromethane | 21.0 | 0.50 | ug/l | 25.0 | ND | 84 | 64-132 | | | |
| Bromodichloromethane | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 63-138 | | | |
| Bromoform | 23.9 | 1.0 | ug/l | 25.0 | ND | 95 | 60-128 | | | |
| Bromomethane | 21.0 | 1.0 | ug/l | 25.0 | ND | 84 | 47-144 | | | |
| 2-Butanone (MEK) | 21.5 | 5.0 | ug/l | 25.0 | ND | 86 | 31-143 | | | |
| n-Butylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | | | |
| sec-Butylbenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | | | |
| tert-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 74-135 | | | |
| Carbon disulfide | 20.0 | 1.0 | ug/l | 25.0 | ND | 80 | 45-150 | | | |
| Carbon tetrachloride | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 65-147 | | | |
| Chlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Chloroethane | 22.0 | 1.0 | ug/l | 25.0 | ND | 88 | 57-139 | | | |
| Chloroform | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 63-131 | | | |
| Chloromethane | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 47-134 | | | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | ND | 95 | 71-131 | | | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| Dibromochloromethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 31.3 | 5.0 | ug/l | 25.0 | ND | 125 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| Dibromomethane | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 66-136 | | | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-130 | | | |
| 1,3-Dichlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Dichlorodifluoromethane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 40-148 | | | |
| 1,1-Dichloroethane | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 62-130 | | | |
| 1,2-Dichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 57-137 | | | |
| cis-1,2-Dichloroethene | 22.3 | 0.50 | ug/l | 25.0 | ND | 89 | 65-127 | | | |
| trans-1,2-Dichloroethene | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 62-131 | | | |
| 1,2-Dichloropropane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 68-126 | | | |
| 1,3-Dichloropropane | 23.9 | 0.50 | ug/l | 25.0 | ND | 95 | 68-129 | | | |
| 2,2-Dichloropropane | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2013 (13C0383-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | ND | 87 | 64-134 | | | |
| cis-1,3-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 58-136 | | | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | | | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | | | |
| 2-Hexanone | 24.6 | 2.5 | ug/l | 25.0 | ND | 98 | 40-142 | | | |
| Iodomethane | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 53-150 | | | |
| Isopropylbenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 106 | 80-146 | | | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 70-133 | | | |
| Methylene Chloride | 19.5 | 1.0 | ug/l | 25.0 | ND | 78 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 27.7 | 5.0 | ug/l | 25.0 | ND | 111 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-138 | | | |
| Naphthalene | 23.4 | 5.0 | ug/l | 25.0 | ND | 94 | 67-146 | | | |
| n-Propylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | | | |
| Styrene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 63-137 | | | |
| Tetrachloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | | | |
| Toluene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 20.8 | 1.0 | ug/l | 25.0 | ND | 83 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 23.1 | 1.0 | ug/l | 25.0 | ND | 93 | 74-138 | | | |
| 1,1,1-Trichloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 64-138 | | | |
| 1,1,2-Trichloroethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 63-132 | | | |
| Trichloroethene | 23.8 | 0.50 | ug/l | 25.0 | 0.260 | 94 | 66-132 | | | |
| Trichlorofluoromethane | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 62-150 | | | |
| 1,2,3-Trichloropropane | 22.8 | 2.0 | ug/l | 25.0 | ND | 91 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | | | |
| Vinyl Acetate | 39.5 | 2.0 | ug/l | 25.0 | ND | 158 | 47-150 | | | *N1* |
| Vinyl chloride | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 55-146 | | | |
| Xylenes, Total | 46.9 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | | | |
| Freon 113 | 23.1 | 2.0 | ug/l | 25.0 | ND | 92 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Attention: Jason Hilker

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Sampled: 03/07/13
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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/11/2013 (13C0383-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| Acetone | 27.4 | 20 | ug/l | 25.0 | ND | 110 | 29-139 | 21 | 35 | *V1* |
| Benzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 68-131 | 15 | 32 | |
| Bromobenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 14 | 28 | |
| Bromochloromethane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 64-132 | 14 | 35 | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | 14 | 31 | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | ND | 113 | 60-128 | 17 | 31 | |
| Bromomethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 26.4 | 5.0 | ug/l | 25.0 | ND | 106 | 31-143 | 20 | 35 | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 13 | 32 | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-135 | 13 | 32 | |
| Carbon disulfide | 23.2 | 1.0 | ug/l | 25.0 | ND | 93 | 45-150 | 15 | 35 | |
| Carbon tetrachloride | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 65-147 | 16 | 35 | |
| Chlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 15 | 30 | |
| Chloroethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | 15 | 35 | |
| Chloroform | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 63-131 | 14 | 33 | |
| Chloromethane | 25.1 | 1.0 | ug/l | 25.0 | ND | 100 | 47-134 | 14 | 35 | |
| 2-Chlorotoluene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | 16 | 29 | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | 16 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.7 | 5.0 | ug/l | 25.0 | ND | 147 | 53-145 | 16 | 35 | *V1, N1* |
| 1,2-Dibromoethane (EDB) | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 15 | 33 | |
| Dibromomethane | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 66-136 | 16 | 35 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 12 | 27 | |
| 1,3-Dichlorobenzene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | 14 | 28 | |
| 1,4-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 13 | 26 | |
| Dichlorodifluoromethane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 40-148 | 15 | 35 | |
| 1,1-Dichloroethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 62-130 | 13 | 34 | |
| 1,2-Dichloroethane | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 54-147 | 16 | 35 | |
| 1,1-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 57-137 | 14 | 35 | |
| cis-1,2-Dichloroethene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 65-127 | 15 | 34 | |
| trans-1,2-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 62-131 | 11 | 35 | |
| 1,2-Dichloropropane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 68-126 | 13 | 32 | |
| 1,3-Dichloropropane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | 12 | 33 | |
| 2,2-Dichloropropane | 29.7 | 1.0 | ug/l | 25.0 | ND | 119 | 60-146 | 10 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/11/2013 (13C0383-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,1-Dichloropropene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 64-134 | 15 | 34 | |
| cis-1,3-Dichloropropene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 63-135 | 15 | 35 | |
| trans-1,3-Dichloropropene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 58-136 | 15 | 35 | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | 14 | 32 | |
| Hexachlorobutadiene | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 69-150 | 10 | 32 | |
| 2-Hexanone | 31.5 | 2.5 | ug/l | 25.0 | ND | 126 | 40-142 | 25 | 35 | |
| Iodomethane | 27.0 | 2.5 | ug/l | 25.0 | ND | 108 | 53-150 | 12 | 35 | |
| Isopropylbenzene | 30.5 | 0.50 | ug/l | 25.0 | ND | 122 | 80-146 | 14 | 32 | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | 12 | 32 | |
| Methylene Chloride | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 55-133 | 14 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 34.6 | 5.0 | ug/l | 25.0 | ND | 138 | 52-143 | 22 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 67-138 | 16 | 21 | |
| Naphthalene | 28.0 | 5.0 | ug/l | 25.0 | ND | 112 | 67-146 | 18 | 29 | |
| n-Propylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 74-140 | 15 | 32 | |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 43-144 | 13 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | 13 | 30 | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | 20 | 32 | |
| Tetrachloroethene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 67-131 | 14 | 31 | |
| Toluene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | 16 | 33 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 74-139 | 12 | 26 | |
| 1,2,4-Trichlorobenzene | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 74-138 | 9 | 26 | |
| 1,1,1-Trichloroethane | 30.1 | 0.50 | ug/l | 25.0 | ND | 120 | 64-138 | 14 | 35 | |
| 1,1,2-Trichloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | 17 | 35 | |
| Trichloroethene | 28.3 | 0.50 | ug/l | 25.0 | 0.260 | 112 | 66-132 | 17 | 29 | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | ND | 130 | 62-150 | 13 | 35 | |
| 1,2,3-Trichloropropane | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 68-130 | 24 | 32 | |
| 1,2,4-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | 14 | 31 | |
| 1,3,5-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 113 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 47.4 | 2.0 | ug/l | 25.0 | ND | 190 | 47-150 | 18 | 35 | *N1* |
| Vinyl chloride | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 16 | 35 | |
| Xylenes, Total | 54.3 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | 15 | 31 | |
| Freon 113 | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 52-149 | 15 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.5* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0419 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0419-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.38* | | *ug/l* | *20.0* | | *37* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.9* | | *ug/l* | *20.0* | | *95* | *27-143* | | | |
| **LCS Analyzed: 03/16/2013 (13C0419-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.12* | | *ug/l* | *20.0* | | *36* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.4* | | *ug/l* | *20.0* | | *97* | *28-150* | | | |
| **LCS Dup Analyzed: 03/16/2013 (13C0419-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.6 | 1.0 | ug/l | 20.0 | | 108 | 85-116 | 4 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *7.51* | | *ug/l* | *20.0* | | *38* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.9* | | *ug/l* | *20.0* | | *95* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/16/2013 (13C0419-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,4-Dioxane | 23.9 | 1.0 | ug/l | 21.7 | ND | 110 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *7.67* | | *ug/l* | *21.7* | | *35* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.4* | | *ug/l* | *21.7* | | *89* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/16/2013 (13C0419-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,4-Dioxane | 23.6 | 1.0 | ug/l | 21.7 | ND | 108 | 65-138 | 1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *8.78* | | *ug/l* | *21.7* | | *40* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *22.0* | | *ug/l* | *21.7* | | *101* | *27-143* | | | |

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Project Manager

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/07/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0493 | Received: 03/07/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0493

Sampled: 03/07/13
Received: 03/07/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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PWC0493

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

## CHAIN OF CUSTODY FORM

[✓] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
22222 E Indian School Rd #101
Scottsdale AZ 85251

Project/PO Number: 013
0050498

Project Manager: Jesse Killen Brennan

Phone Number: 480-998-2401

Sampler: Adam Magh 602-247-8817

Fax Number:

Analysis Required: VOC 8260B; VH Diesel 8270

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260B | VH Diesel 8270 | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OW3-GM-01-030713 | W | Amber Glass | 5 | 3/7/13 | 1014 | HCl/ice | X | X | | -01 | | | | | | Level IV |
| OW3-17mw-030713 | W | Amber Glass | 5 | 3/7/13 | 1407 | HCl/ice | X | X | | 02 | | | | | | Level IV |
| OW3-40-01-030713 | W | Amber Glass | 5 | 3/7/13 | 1516 | HCl/ice | X | X | | 03 | | | | | | |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| Chris Ferm | 3/7/13 1622 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: Sharon Malone | Date/Time: 3/7/13 1622 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.4°C + 0.5°C

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/08/13
Received: 03/08/13
Revised: 04/29/13 08:51

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0592-01 | OU3-9M2-M-030813 | Water |
| PWC0592-02 | OU3-9M2-M-030813-Q1 | Water |
| PWC0592-03 | OU3-9S-S-030813 | Water |
| PWC0592-04 | OU3-8M2-M-030813 | Water |
| PWC0592-05 | OU3-8M2-M-030813-Q1 | Water |
| PWC0592-06 | OU3-8S-S-030813-MS/MSD | Water |
| PWC0592-07 | GW-EB4-030813 | Water |
| PWC0592-08 | GW-LI-4-030813 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/08/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0592 | Received: 03/08/13 |
| Attention: Jason Hilker | | |

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 0°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.<br>H4-Sample was extracted past required extraction holding time, but analyzed within analysis holding time for confirmation only. The original extraction had low surrogates; both sets of data are reported. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1/N1a on 11C0383 MS and MSD-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>N1a-Vinyl Acetate-The second source initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1a-8310-Due to employee oversight 1,4-Dioxane was not spiked in the Matrix Spike and Matrix Spike Duplicate for batch 13C0469<br>N1b-RPD exceeded acceptance limits for the LCS/LCSD and the LCS and/or LCSD recovery exceeded acceptance limits. The analyte was not detected in the associated samples; therefore, the data is not impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.<br>S7-Surrogate recovery was below acceptance limits. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Revised report 042913 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-01 (OU3-9M2-M-030813 - Water)** | | | | **Sampled: 03/08/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.7** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-01 (OU3-9M2-M-030813 - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **2.9** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **1.3** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-02 (OU3-9M2-M-030813-Q1 - Water)** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.8** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-02 (OU3-9M2-M-030813-Q1 - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **2.7** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **1.2** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-03 (OU3-9S-S-030813 - Water)** | | | | **Sampled: 03/08/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.4** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-03 (OU3-9S-S-030813 - Water) - cont.** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **2.1** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-04 (OU3-8M2-M-030813 - Water)** | | | | **Sampled: 03/08/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **0.50** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0383 | 0.50 | **1.4** | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-04 (OU3-8M2-M-030813 - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **0.76** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **17** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-05 (OU3-8M2-M-030813-Q1 - Water)** | | | | **Sampled: 03/08/13** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **0.50** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0383 | 0.50 | **1.7** | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-05 (OU3-8M2-M-030813-Q1 - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0383 | 0.50 | **0.72** | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0383 | 0.50 | **17** | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-06 (OU3-8S-S-030813-MS/MSD - Water)** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0485 | 10 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Benzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0485 | 0.50 | **1.4** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0485 | 0.50 | **0.84** | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-06 (OU3-8S-S-030813-MS/MSD - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0485 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0485 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0485 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0485 | 0.50 | **0.75** | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0485 | 0.50 | **5.6** | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0485 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0485 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0485 | 1.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0485 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *101 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-07 (GW-EB4-030813 - Water)** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0383 | 20 | ND | 1 | 3/11/2013 | 3/11/2013 | V1 |
| Benzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromochloromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0383 | 0.50 | **2.9** | 1 | 3/11/2013 | 3/11/2013 | |
| Bromoform | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Bromomethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon disulfide | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Chloroethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Chloroform** | EPA 8260B | 13C0383 | 0.50 | **1.7** | 1 | 3/11/2013 | 3/11/2013 | |
| Chloromethane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0383 | 0.50 | **3.2** | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | V1, L3 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dibromomethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Ethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-07 (GW-EB4-030813 - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Iodomethane | EPA 8260B | 13C0383 | 2.5 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methylene Chloride | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Naphthalene | EPA 8260B | 13C0383 | 5.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Styrene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Toluene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichloroethene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0383 | 0.50 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Xylenes, Total | EPA 8260B | 13C0383 | 1.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| Freon 113 | EPA 8260B | 13C0383 | 2.0 | ND | 1 | 3/11/2013 | 3/11/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-08 (GW-LI-4-030813 - Water)** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0447 | 20 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Benzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Carbon disulfide | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloroform | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0592-08 (GW-LI-4-030813 - Water) - cont.** **Sampled: 03/08/13**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0447 | 2.5 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0447 | 2.5 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| p-Isopropyltoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Styrene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | V1, N1a |
| Vinyl chloride | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *100 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-01 (OU3-9M2-M-030813 - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.0 | ND | 1.08 | 3/12/2013 | 3/19/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *47 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *71 %* | | | | |
| **Sample ID: PWC0592-02 (OU3-9M2-M-030813-Q1 - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.0 | ND | 1.07 | 3/12/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *69 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *88 %* | | | | |
| **Sample ID: PWC0592-03 (OU3-9S-S-030813 - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.0 | ND | 1.05 | 3/12/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *72 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *89 %* | | | | |
| **Sample ID: PWC0592-04 (OU3-8M2-M-030813 - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.1 | ND | 1.11 | 3/12/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *70 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *87 %* | | | | |
| **Sample ID: PWC0592-05 (OU3-8M2-M-030813-Q1 - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.1 | ND | 1.11 | 3/12/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *76 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *91 %* | | | | |
| **Sample ID: PWC0592-06 (OU3-8S-S-030813-MS/MSD - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.1 | ND | 1.14 | 3/12/2013 | 3/19/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *10 %* | | | | *S7* |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *13 %* | | | | *S7* |
| **Sample ID: PWC0592-06RE1 (OU3-8S-S-030813-MS/MSD - Water)** | | | | | **Sampled: 03/08/13** | | | **H4** |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0862 | 1.0 | ND | 1.03 | 3/21/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *75 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *103 %* | | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0592-07 (GW-EB4-030813 - Water)** | | | | | **Sampled: 03/08/13** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.0 | ND | 1.08 | 3/12/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *63 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *82 %* | | | | |

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Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0383-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | *V1* |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Blank Analyzed: 03/11/2013 (13C0383-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.6* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.8* | | *ug/l* | *25.0* | | *91* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Analyzed: 03/11/2013 (13C0383-BS1)** | | | | | | | | | | |
| Acetone | 35.7 | 20 | ug/l | 25.0 | | 143 | 38-150 | | | *V1* |
| Benzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Bromobenzene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Bromochloromethane | 22.9 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| Bromodichloromethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromoform | 28.6 | 1.0 | ug/l | 25.0 | | 114 | 69-129 | | | |
| Bromomethane | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 57-138 | | | |
| 2-Butanone (MEK) | 28.9 | 5.0 | ug/l | 25.0 | | 116 | 53-150 | | | |
| n-Butylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | | | |
| sec-Butylbenzene | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| tert-Butylbenzene | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Carbon disulfide | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 64-145 | | | |
| Carbon tetrachloride | 32.7 | 0.50 | ug/l | 25.0 | | 131 | 70-143 | | | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Chloroethane | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 66-131 | | | |
| Chloroform | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Chloromethane | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 56-129 | | | |
| 2-Chlorotoluene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromochloromethane | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 40.5 | 5.0 | ug/l | 25.0 | | 162 | 63-146 | | | *V1, L3* |
| 1,2-Dibromoethane (EDB) | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Dibromomethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Dichlorodifluoromethane | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 46-144 | | | |
| 1,1-Dichloroethane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2-Dichloroethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 66-139 | | | |
| 1,1-Dichloroethene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 63-131 | | | |
| cis-1,2-Dichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 69-127 | | | |
| 1,2-Dichloropropane | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,3-Dichloropropane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Analyzed: 03/11/2013 (13C0383-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Ethylbenzene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Hexachlorobutadiene | 28.0 | 1.0 | ug/l | 25.0 | | 112 | 76-145 | | | |
| 2-Hexanone | 34.7 | 2.5 | ug/l | 25.0 | | 139 | 55-150 | | | |
| Iodomethane | 28.4 | 2.5 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Isopropylbenzene | 31.5 | 0.50 | ug/l | 25.0 | | 126 | 88-141 | | | |
| p-Isopropyltoluene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Methylene Chloride | 22.0 | 1.0 | ug/l | 25.0 | | 88 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 33.0 | 5.0 | ug/l | 25.0 | | 132 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 29.8 | 5.0 | ug/l | 25.0 | | 119 | 78-143 | | | |
| n-Propylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | | | |
| Styrene | 28.1 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Tetrachloroethene | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 80-137 | | | |
| 1,1,1-Trichloroethane | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Trichloroethene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Trichlorofluoromethane | 33.9 | 0.50 | ug/l | 25.0 | | 136 | 69-150 | | | |
| 1,2,3-Trichloropropane | 29.9 | 2.0 | ug/l | 25.0 | | 119 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Vinyl Acetate | 42.1 | 2.0 | ug/l | 25.0 | | 168 | 67-148 | | | *L3* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | | | |
| Xylenes, Total | 55.8 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *21.1* | | *ug/l* | *25.0* | | *84* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0383-BSD1)** | | | | | | | | | | |
| Acetone | 34.5 | 20 | ug/l | 25.0 | | 138 | 38-150 | 3 | 35 | *V1* |
| Benzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 1 | 20 | |
| Bromobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Bromochloromethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Bromodichloromethane | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 0.2 | 20 | |
| Bromoform | 27.3 | 1.0 | ug/l | 25.0 | | 109 | 69-129 | 5 | 20 | |
| Bromomethane | 24.6 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 5 | 20 | |
| 2-Butanone (MEK) | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 53-150 | 2 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 5 | 20 | |
| sec-Butylbenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 4 | 20 | |
| Carbon disulfide | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 31.3 | 0.50 | ug/l | 25.0 | | 125 | 70-143 | 4 | 20 | |
| Chlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 3 | 20 | |
| Chloroethane | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 66-131 | 3 | 20 | |
| Chloroform | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 0.2 | 20 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 56-129 | 7 | 20 | |
| 2-Chlorotoluene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 2 | 20 | |
| 4-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Dibromochloromethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 0.7 | 20 | |
| 1,2-Dibromo-3-chloropropane | 39.5 | 5.0 | ug/l | 25.0 | | 158 | 63-146 | 3 | 22 | *V1, L3* |
| 1,2-Dibromoethane (EDB) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| Dibromomethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 3 | 20 | |
| Dichlorodifluoromethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 46-144 | 6 | 23 | |
| 1,1-Dichloroethane | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 0.9 | 20 | |
| 1,2-Dichloroethane | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 66-139 | 2 | 20 | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 63-131 | 6 | 22 | |
| cis-1,2-Dichloroethene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 1 | 20 | |
| trans-1,2-Dichloroethene | 25.1 | 0.50 | ug/l | 25.0 | | 101 | 69-127 | 0.9 | 20 | |
| 1,2-Dichloropropane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 0.4 | 20 | |
| 1,3-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 29.4 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | 2 | 20 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/11/2013 (13C0383-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 1 | 20 | |
| trans-1,3-Dichloropropene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 0 | 20 | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 4 | 20 | |
| Hexachlorobutadiene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 76-145 | 6 | 20 | |
| 2-Hexanone | 33.1 | 2.5 | ug/l | 25.0 | | 132 | 55-150 | 5 | 35 | |
| Iodomethane | 27.9 | 2.5 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Isopropylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 88-141 | 4 | 20 | |
| p-Isopropyltoluene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Methylene Chloride | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 63-128 | 2 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 33.0 | 5.0 | ug/l | 25.0 | | 132 | 64-142 | 0.2 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 0.2 | 20 | |
| Naphthalene | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 78-143 | 3 | 20 | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 4 | 20 | |
| Styrene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 3 | 20 | |
| Tetrachloroethene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 6 | 20 | |
| Toluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 79-139 | 1 | 20 | |
| 1,2,4-Trichlorobenzene | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 80-137 | 2 | 20 | |
| 1,1,1-Trichloroethane | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 71-131 | 3 | 20 | |
| 1,1,2-Trichloroethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| Trichloroethene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Trichlorofluoromethane | 33.5 | 0.50 | ug/l | 25.0 | | 134 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 3 | 20 | |
| 1,3,5-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Vinyl Acetate | 41.0 | 2.0 | ug/l | 25.0 | | 164 | 67-148 | 3 | 22 | *L3* |
| Vinyl chloride | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 65-137 | 8 | 20 | |
| Xylenes, Total | 53.3 | 1.0 | ug/l | 50.0 | | 107 | 70-130 | 5 | 20 | |
| Freon 113 | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 65-139 | 4 | 27 | |
| *Surrogate: Dibromofluoromethane* | *22.3* | | *ug/l* | *25.0* | | *89* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2013 (13C0383-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| Acetone | 22.2 | 20 | ug/l | 25.0 | ND | 89 | 29-139 | | | *V1* |
| Benzene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 68-131 | | | |
| Bromobenzene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 70-130 | | | |
| Bromochloromethane | 21.0 | 0.50 | ug/l | 25.0 | ND | 84 | 64-132 | | | |
| Bromodichloromethane | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 63-138 | | | |
| Bromoform | 23.9 | 1.0 | ug/l | 25.0 | ND | 95 | 60-128 | | | |
| Bromomethane | 21.0 | 1.0 | ug/l | 25.0 | ND | 84 | 47-144 | | | |
| 2-Butanone (MEK) | 21.5 | 5.0 | ug/l | 25.0 | ND | 86 | 31-143 | | | |
| n-Butylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | | | |
| sec-Butylbenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | | | |
| tert-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 74-135 | | | |
| Carbon disulfide | 20.0 | 1.0 | ug/l | 25.0 | ND | 80 | 45-150 | | | |
| Carbon tetrachloride | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 65-147 | | | |
| Chlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Chloroethane | 22.0 | 1.0 | ug/l | 25.0 | ND | 88 | 57-139 | | | |
| Chloroform | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 63-131 | | | |
| Chloromethane | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 47-134 | | | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | ND | 95 | 71-131 | | | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| Dibromochloromethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 31.3 | 5.0 | ug/l | 25.0 | ND | 125 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| Dibromomethane | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 66-136 | | | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-130 | | | |
| 1,3-Dichlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Dichlorodifluoromethane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 40-148 | | | |
| 1,1-Dichloroethane | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 62-130 | | | |
| 1,2-Dichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 57-137 | | | |
| cis-1,2-Dichloroethene | 22.3 | 0.50 | ug/l | 25.0 | ND | 89 | 65-127 | | | |
| trans-1,2-Dichloroethene | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 62-131 | | | |
| 1,2-Dichloropropane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 68-126 | | | |
| 1,3-Dichloropropane | 23.9 | 0.50 | ug/l | 25.0 | ND | 95 | 68-129 | | | |
| 2,2-Dichloropropane | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 60-146 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2013 (13C0383-MS1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | ND | 87 | 64-134 | | | |
| cis-1,3-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 58-136 | | | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | | | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | | | |
| 2-Hexanone | 24.6 | 2.5 | ug/l | 25.0 | ND | 98 | 40-142 | | | |
| Iodomethane | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 53-150 | | | |
| Isopropylbenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 106 | 80-146 | | | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 70-133 | | | |
| Methylene Chloride | 19.5 | 1.0 | ug/l | 25.0 | ND | 78 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 27.7 | 5.0 | ug/l | 25.0 | ND | 111 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-138 | | | |
| Naphthalene | 23.4 | 5.0 | ug/l | 25.0 | ND | 94 | 67-146 | | | |
| n-Propylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | | | |
| Styrene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 63-137 | | | |
| Tetrachloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | | | |
| Toluene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 20.8 | 1.0 | ug/l | 25.0 | ND | 83 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 23.1 | 1.0 | ug/l | 25.0 | ND | 93 | 74-138 | | | |
| 1,1,1-Trichloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 64-138 | | | |
| 1,1,2-Trichloroethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 63-132 | | | |
| Trichloroethene | 23.8 | 0.50 | ug/l | 25.0 | 0.260 | 94 | 66-132 | | | |
| Trichlorofluoromethane | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 62-150 | | | |
| 1,2,3-Trichloropropane | 22.8 | 2.0 | ug/l | 25.0 | ND | 91 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | | | |
| Vinyl Acetate | 39.5 | 2.0 | ug/l | 25.0 | ND | 158 | 47-150 | | | *N1a* |
| Vinyl chloride | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 55-146 | | | |
| Xylenes, Total | 46.9 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | | | |
| Freon 113 | 23.1 | 2.0 | ug/l | 25.0 | ND | 92 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/11/2013 (13C0383-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| Acetone | 27.4 | 20 | ug/l | 25.0 | ND | 110 | 29-139 | 21 | 35 | *V1* |
| Benzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 68-131 | 15 | 32 | |
| Bromobenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 14 | 28 | |
| Bromochloromethane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 64-132 | 14 | 35 | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | 14 | 31 | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | ND | 113 | 60-128 | 17 | 31 | |
| Bromomethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 26.4 | 5.0 | ug/l | 25.0 | ND | 106 | 31-143 | 20 | 35 | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 13 | 32 | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-135 | 13 | 32 | |
| Carbon disulfide | 23.2 | 1.0 | ug/l | 25.0 | ND | 93 | 45-150 | 15 | 35 | |
| Carbon tetrachloride | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 65-147 | 16 | 35 | |
| Chlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 15 | 30 | |
| Chloroethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | 15 | 35 | |
| Chloroform | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 63-131 | 14 | 33 | |
| Chloromethane | 25.1 | 1.0 | ug/l | 25.0 | ND | 100 | 47-134 | 14 | 35 | |
| 2-Chlorotoluene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | 16 | 29 | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | 16 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.7 | 5.0 | ug/l | 25.0 | ND | 147 | 53-145 | 16 | 35 | *V1, N1* |
| 1,2-Dibromoethane (EDB) | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 15 | 33 | |
| Dibromomethane | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 66-136 | 16 | 35 | |
| 1,2-Dichlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 12 | 27 | |
| 1,3-Dichlorobenzene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | 14 | 28 | |
| 1,4-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 13 | 26 | |
| Dichlorodifluoromethane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 40-148 | 15 | 35 | |
| 1,1-Dichloroethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 62-130 | 13 | 34 | |
| 1,2-Dichloroethane | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 54-147 | 16 | 35 | |
| 1,1-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 57-137 | 14 | 35 | |
| cis-1,2-Dichloroethene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 65-127 | 15 | 34 | |
| trans-1,2-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 62-131 | 11 | 35 | |
| 1,2-Dichloropropane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 68-126 | 13 | 32 | |
| 1,3-Dichloropropane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | 12 | 33 | |
| 2,2-Dichloropropane | 29.7 | 1.0 | ug/l | 25.0 | ND | 119 | 60-146 | 10 | 35 | |

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Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0383 Extracted: 03/11/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/11/2013 (13C0383-MSD1)** | | | | | **Source: PWC0492-01** | | | | | |
| 1,1-Dichloropropene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 64-134 | 15 | 34 | |
| cis-1,3-Dichloropropene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 63-135 | 15 | 35 | |
| trans-1,3-Dichloropropene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 58-136 | 15 | 35 | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | 14 | 32 | |
| Hexachlorobutadiene | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 69-150 | 10 | 32 | |
| 2-Hexanone | 31.5 | 2.5 | ug/l | 25.0 | ND | 126 | 40-142 | 25 | 35 | |
| Iodomethane | 27.0 | 2.5 | ug/l | 25.0 | ND | 108 | 53-150 | 12 | 35 | |
| Isopropylbenzene | 30.5 | 0.50 | ug/l | 25.0 | ND | 122 | 80-146 | 14 | 32 | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | 12 | 32 | |
| Methylene Chloride | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 55-133 | 14 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 34.6 | 5.0 | ug/l | 25.0 | ND | 138 | 52-143 | 22 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 67-138 | 16 | 21 | |
| Naphthalene | 28.0 | 5.0 | ug/l | 25.0 | ND | 112 | 67-146 | 18 | 29 | |
| n-Propylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 74-140 | 15 | 32 | |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 43-144 | 13 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | 13 | 30 | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | 20 | 32 | |
| Tetrachloroethene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 67-131 | 14 | 31 | |
| Toluene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | 16 | 33 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 74-139 | 12 | 26 | |
| 1,2,4-Trichlorobenzene | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 74-138 | 9 | 26 | |
| 1,1,1-Trichloroethane | 30.1 | 0.50 | ug/l | 25.0 | ND | 120 | 64-138 | 14 | 35 | |
| 1,1,2-Trichloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | 17 | 35 | |
| Trichloroethene | 28.3 | 0.50 | ug/l | 25.0 | 0.260 | 112 | 66-132 | 17 | 29 | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | ND | 130 | 62-150 | 13 | 35 | |
| 1,2,3-Trichloropropane | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 68-130 | 24 | 32 | |
| 1,2,4-Trimethylbenzene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | 14 | 31 | |
| 1,3,5-Trimethylbenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 113 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 47.4 | 2.0 | ug/l | 25.0 | ND | 190 | 47-150 | 18 | 35 | *N1a* |
| Vinyl chloride | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 16 | 35 | |
| Xylenes, Total | 54.3 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | 15 | 31 | |
| Freon 113 | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 52-149 | 15 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.5* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/12/2013 (13C0447-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/12/2013 (13C0447-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *V1, N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Analyzed: 03/12/2013 (13C0447-BS1)** | | | | | | | | | | |
| Acetone | 39.1 | 20 | ug/l | 25.0 | | 156 | 38-150 | | | *L3* |
| Benzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromobenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| Bromochloromethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Bromodichloromethane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromoform | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 69-129 | | | |
| Bromomethane | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | | | |
| 2-Butanone (MEK) | 31.6 | 5.0 | ug/l | 25.0 | | 126 | 53-150 | | | |
| n-Butylbenzene | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | | | |
| sec-Butylbenzene | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | | | |
| tert-Butylbenzene | 31.4 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | | | |
| Carbon disulfide | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 64-145 | | | |
| Carbon tetrachloride | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 70-143 | | | |
| Chlorobenzene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Chloroethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 66-131 | | | |
| Chloroform | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Chloromethane | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 56-129 | | | |
| 2-Chlorotoluene | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Dibromochloromethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Dibromomethane | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Dichlorodifluoromethane | 28.4 | 0.50 | ug/l | 25.0 | | 113 | 46-144 | | | |
| 1,1-Dichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 66-139 | | | |
| 1,1-Dichloroethene | 30.7 | 0.50 | ug/l | 25.0 | | 123 | 63-131 | | | |
| cis-1,2-Dichloroethene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| trans-1,2-Dichloroethene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 69-127 | | | |
| 1,2-Dichloropropane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,3-Dichloropropane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 2,2-Dichloropropane | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 69-139 | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Analyzed: 03/12/2013 (13C0447-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| cis-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Ethylbenzene | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Hexachlorobutadiene | 31.4 | 1.0 | ug/l | 25.0 | | 125 | 76-145 | | | |
| 2-Hexanone | 34.2 | 2.5 | ug/l | 25.0 | | 137 | 55-150 | | | |
| Iodomethane | 25.8 | 2.5 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Isopropylbenzene | 33.6 | 0.50 | ug/l | 25.0 | | 135 | 88-141 | | | |
| p-Isopropyltoluene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | | | |
| Methylene Chloride | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| Naphthalene | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 78-143 | | | |
| n-Propylbenzene | 31.9 | 0.50 | ug/l | 25.0 | | 127 | 70-130 | | | |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Toluene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 80-137 | | | |
| 1,1,1-Trichloroethane | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Trichloroethene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Trichlorofluoromethane | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 69-150 | | | |
| 1,2,3-Trichloropropane | 30.1 | 2.0 | ug/l | 25.0 | | 120 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Vinyl Acetate | 37.0 | 2.0 | ug/l | 25.0 | | 148 | 67-148 | | | *V1, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 56.2 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 29.2 | 2.0 | ug/l | 25.0 | | 117 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/12/2013 (13C0447-BSD1)** | | | | | | | | | | |
| Acetone | 27.2 | 20 | ug/l | 25.0 | | 109 | 38-150 | 36 | 35 | *N1b* |
| Benzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Bromobenzene | 30.1 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 7 | 20 | |
| Bromochloromethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.5 | 20 | |
| Bromoform | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 69-129 | 6 | 20 | |
| Bromomethane | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | 0.1 | 20 | |
| 2-Butanone (MEK) | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 53-150 | 16 | 35 | |
| n-Butylbenzene | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 34.1 | 0.50 | ug/l | 25.0 | | 137 | 70-130 | 9 | 20 | *L3* |
| tert-Butylbenzene | 35.2 | 0.50 | ug/l | 25.0 | | 141 | 70-130 | 11 | 20 | *L3* |
| Carbon disulfide | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 70-143 | 6 | 20 | |
| Chlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Chloroethane | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 66-131 | 0.9 | 20 | |
| Chloroform | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| Chloromethane | 25.9 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 2 | 20 | |
| 2-Chlorotoluene | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 70-130 | 7 | 20 | |
| 4-Chlorotoluene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 5 | 20 | |
| Dibromochloromethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 63-146 | 0.03 | 22 | |
| 1,2-Dibromoethane (EDB) | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.4 | 20 | |
| Dibromomethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 5 | 20 | |
| 1,2-Dichlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | 29.1 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.4 | 20 | |
| Dichlorodifluoromethane | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 46-144 | 2 | 23 | |
| 1,1-Dichloroethane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.7 | 20 | |
| 1,2-Dichloroethane | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 66-139 | 4 | 20 | |
| 1,1-Dichloroethene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 63-131 | 3 | 22 | |
| cis-1,2-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 69-127 | 1 | 20 | |
| 1,2-Dichloropropane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 0.2 | 20 | |
| 1,3-Dichloropropane | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 0.08 | 20 | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 115 | 69-139 | 7 | 20 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/12/2013 (13C0447-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 0.9 | 20 | |
| trans-1,3-Dichloropropene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 5 | 20 | |
| Ethylbenzene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 3 | 20 | |
| Hexachlorobutadiene | 29.9 | 1.0 | ug/l | 25.0 | | 119 | 76-145 | 5 | 20 | |
| 2-Hexanone | 29.3 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | 15 | 35 | |
| Iodomethane | 26.0 | 2.5 | ug/l | 25.0 | | 104 | 70-130 | 0.8 | 20 | |
| Isopropylbenzene | 37.2 | 0.50 | ug/l | 25.0 | | 149 | 88-141 | 10 | 20 | *L3* |
| p-Isopropyltoluene | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 6 | 20 | |
| Methylene Chloride | 23.3 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | 0.9 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 64-142 | 4 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 3 | 20 | |
| Naphthalene | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 34.8 | 0.50 | ug/l | 25.0 | | 139 | 70-130 | 9 | 20 | *L3* |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.04 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 30.6 | 0.50 | ug/l | 25.0 | | 122 | 70-130 | 4 | 20 | |
| Tetrachloroethene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | 6 | 20 | |
| Toluene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 79-139 | 13 | 20 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 80-137 | 14 | 20 | |
| 1,1,1-Trichloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 71-131 | 3 | 20 | |
| 1,1,2-Trichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 4 | 20 | |
| Trichloroethene | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 33.7 | 0.50 | ug/l | 25.0 | | 135 | 69-150 | 5 | 22 | |
| 1,2,3-Trichloropropane | 31.5 | 2.0 | ug/l | 25.0 | | 126 | 70-130 | 4 | 20 | |
| 1,2,4-Trimethylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 5 | 20 | |
| 1,3,5-Trimethylbenzene | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 33.8 | 2.0 | ug/l | 25.0 | | 135 | 67-148 | 9 | 22 | *V1, N1a* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | 3 | 20 | |
| Xylenes, Total | 58.1 | 1.0 | ug/l | 50.0 | | 116 | 70-130 | 3 | 20 | |
| Freon 113 | 31.2 | 2.0 | ug/l | 25.0 | | 125 | 65-139 | 6 | 27 | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.8* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/12/2013 (13C0447-MS1)** | | | | | **Source: PWC0597-01** | | | | | |
| Acetone | 17.8 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | | | |
| Benzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 68-131 | | | |
| Bromobenzene | 30.4 | 0.50 | ug/l | 25.0 | ND | 121 | 70-130 | | | |
| Bromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 64-132 | | | |
| Bromodichloromethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-138 | | | |
| Bromoform | 29.5 | 1.0 | ug/l | 25.0 | ND | 118 | 60-128 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 47-144 | | | |
| 2-Butanone (MEK) | 21.4 | 5.0 | ug/l | 25.0 | ND | 86 | 31-143 | | | |
| n-Butylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 125 | 69-140 | | | |
| sec-Butylbenzene | 32.7 | 0.50 | ug/l | 25.0 | ND | 131 | 72-136 | | | |
| tert-Butylbenzene | 33.6 | 0.50 | ug/l | 25.0 | ND | 134 | 74-135 | | | |
| Carbon disulfide | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 45-150 | | | |
| Carbon tetrachloride | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 65-147 | | | |
| Chlorobenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | | | |
| Chloroethane | 28.6 | 1.0 | ug/l | 25.0 | ND | 114 | 57-139 | | | |
| Chloroform | 27.3 | 0.50 | ug/l | 25.0 | 0.430 | 107 | 63-131 | | | |
| Chloromethane | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 47-134 | | | |
| 2-Chlorotoluene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 71-131 | | | |
| 4-Chlorotoluene | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 70-130 | | | |
| Dibromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 66-136 | | | |
| 1,2-Dichlorobenzene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| 1,3-Dichlorobenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 70-130 | | | |
| 1,4-Dichlorobenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| Dichlorodifluoromethane | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 40-148 | | | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 62-130 | | | |
| 1,2-Dichloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 54-147 | | | |
| 1,1-Dichloroethene | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 57-137 | | | |
| cis-1,2-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 65-127 | | | |
| trans-1,2-Dichloroethene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 62-131 | | | |
| 1,2-Dichloropropane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 68-126 | | | |
| 1,3-Dichloropropane | 27.0 | 0.50 | ug/l | 25.0 | 0.660 | 105 | 68-129 | | | |
| 2,2-Dichloropropane | 28.1 | 1.0 | ug/l | 25.0 | ND | 112 | 60-146 | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/12/2013 (13C0447-MS1)** | | | | | **Source: PWC0597-01** | | | | | |
| 1,1-Dichloropropene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 58-136 | | | |
| Ethylbenzene | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 74-134 | | | |
| Hexachlorobutadiene | 29.0 | 1.0 | ug/l | 25.0 | ND | 116 | 69-150 | | | |
| 2-Hexanone | 25.2 | 2.5 | ug/l | 25.0 | ND | 101 | 40-142 | | | |
| Iodomethane | 27.7 | 2.5 | ug/l | 25.0 | ND | 111 | 53-150 | | | |
| Isopropylbenzene | 36.2 | 0.50 | ug/l | 25.0 | ND | 145 | 80-146 | | | |
| p-Isopropyltoluene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 70-133 | | | |
| Methylene Chloride | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.8 | 5.0 | ug/l | 25.0 | ND | 99 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 67-138 | | | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | ND | 103 | 67-146 | | | |
| n-Propylbenzene | 33.8 | 0.50 | ug/l | 25.0 | ND | 135 | 74-140 | | | |
| Styrene | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 30.4 | 0.50 | ug/l | 25.0 | ND | 122 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 117 | 63-137 | | | |
| Tetrachloroethene | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 67-131 | | | |
| Toluene | 28.6 | 0.50 | ug/l | 25.0 | ND | 115 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 25.9 | 1.0 | ug/l | 25.0 | ND | 104 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | | | |
| Trichloroethene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 66-132 | | | |
| Trichlorofluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 31.7 | 0.50 | ug/l | 25.0 | ND | 127 | 66-137 | | | |
| Vinyl Acetate | 33.1 | 2.0 | ug/l | 25.0 | ND | 132 | 47-150 | | | *V1, N1a* |
| Vinyl chloride | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 55-146 | | | |
| Xylenes, Total | 58.7 | 1.0 | ug/l | 50.0 | ND | 117 | 68-131 | | | |
| Freon 113 | 31.1 | 2.0 | ug/l | 25.0 | ND | 124 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.4* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/12/2013 (13C0447-MSD1)** | | | | | **Source: PWC0597-01** | | | | | |
| Acetone | 16.6 | 20 | ug/l | 25.0 | ND | 66 | 29-139 | 7 | 35 | |
| Benzene | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-131 | 9 | 32 | |
| Bromobenzene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 10 | 28 | |
| Bromochloromethane | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 64-132 | 13 | 35 | |
| Bromodichloromethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 63-138 | 11 | 31 | |
| Bromoform | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 60-128 | 8 | 31 | |
| Bromomethane | 23.0 | 1.0 | ug/l | 25.0 | ND | 92 | 47-144 | 11 | 35 | |
| 2-Butanone (MEK) | 22.1 | 5.0 | ug/l | 25.0 | ND | 88 | 31-143 | 3 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 69-140 | 9 | 32 | |
| sec-Butylbenzene | 30.3 | 0.50 | ug/l | 25.0 | ND | 121 | 72-136 | 7 | 33 | |
| tert-Butylbenzene | 30.8 | 0.50 | ug/l | 25.0 | ND | 123 | 74-135 | 9 | 32 | |
| Carbon disulfide | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 45-150 | 9 | 35 | |
| Carbon tetrachloride | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-147 | 7 | 35 | |
| Chlorobenzene | 25.9 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 10 | 30 | |
| Chloroethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | 11 | 35 | |
| Chloroform | 24.4 | 0.50 | ug/l | 25.0 | 0.430 | 96 | 63-131 | 11 | 33 | |
| Chloromethane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 47-134 | 11 | 35 | |
| 2-Chlorotoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | 10 | 29 | |
| 4-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 11 | 28 | |
| Dibromochloromethane | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 65-134 | 10 | 33 | |
| 1,2-Dibromo-3-chloropropane | 26.4 | 5.0 | ug/l | 25.0 | ND | 105 | 53-145 | 4 | 35 | |
| 1,2-Dibromoethane (EDB) | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 70-130 | 7 | 33 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 11 | 35 | |
| 1,2-Dichlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 10 | 27 | |
| 1,3-Dichlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | 10 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 10 | 26 | |
| Dichlorodifluoromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 40-148 | 10 | 35 | |
| 1,1-Dichloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 62-130 | 11 | 34 | |
| 1,2-Dichloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 54-147 | 10 | 35 | |
| 1,1-Dichloroethene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 57-137 | 10 | 35 | |
| cis-1,2-Dichloroethene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 62-131 | 10 | 35 | |
| 1,2-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 68-126 | 10 | 32 | |
| 1,3-Dichloropropane | 25.2 | 0.50 | ug/l | 25.0 | 0.660 | 98 | 68-129 | 7 | 33 | |
| 2,2-Dichloropropane | 25.6 | 1.0 | ug/l | 25.0 | ND | 103 | 60-146 | 9 | 35 | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/12/2013 (13C0447-MSD1)** | | | | | **Source: PWC0597-01** | | | | | |
| 1,1-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 64-134 | 9 | 34 | |
| cis-1,3-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | 12 | 35 | |
| trans-1,3-Dichloropropene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 58-136 | 11 | 35 | |
| Ethylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-134 | 9 | 32 | |
| Hexachlorobutadiene | 28.7 | 1.0 | ug/l | 25.0 | ND | 115 | 69-150 | 0.8 | 32 | |
| 2-Hexanone | 25.1 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | 0.3 | 35 | |
| Iodomethane | 24.8 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 11 | 35 | |
| Isopropylbenzene | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 80-146 | 9 | 32 | |
| p-Isopropyltoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-133 | 8 | 32 | |
| Methylene Chloride | 22.3 | 1.0 | ug/l | 25.0 | ND | 89 | 55-133 | 12 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 23.9 | 5.0 | ug/l | 25.0 | ND | 96 | 52-143 | 4 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 67-138 | 11 | 21 | |
| Naphthalene | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 67-146 | 0.5 | 29 | |
| n-Propylbenzene | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 74-140 | 10 | 32 | |
| Styrene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 43-144 | 12 | 35 | |
| 1,1,1,2-Tetrachloroethane | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 11 | 30 | |
| 1,1,2,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-137 | 4 | 32 | |
| Tetrachloroethene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 67-131 | 7 | 31 | |
| Toluene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 65-138 | 11 | 33 | |
| 1,2,3-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 74-139 | 4 | 26 | |
| 1,2,4-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 74-138 | 5 | 26 | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | 10 | 35 | |
| 1,1,2-Trichloroethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 63-132 | 10 | 35 | |
| Trichloroethene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 66-132 | 10 | 29 | |
| Trichlorofluoromethane | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 62-150 | 10 | 35 | |
| 1,2,3-Trichloropropane | 27.1 | 2.0 | ug/l | 25.0 | ND | 108 | 68-130 | 5 | 32 | |
| 1,2,4-Trimethylbenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 10 | 31 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | 10 | 30 | |
| Vinyl Acetate | 30.0 | 2.0 | ug/l | 25.0 | ND | 120 | 47-150 | 10 | 35 | *V1, N1a* |
| Vinyl chloride | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 8 | 35 | |
| Xylenes, Total | 53.7 | 1.0 | ug/l | 50.0 | ND | 107 | 68-131 | 9 | 31 | |
| Freon 113 | 28.7 | 2.0 | ug/l | 25.0 | ND | 115 | 52-149 | 8 | 35 | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0485-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0485-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0485-BS1)** | | | | | | | | | | |
| Acetone | 40.8 | 20 | ug/l | 25.0 | | 163 | 38-150 | | | *L3* |
| Benzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Bromobenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Bromochloromethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Bromodichloromethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | | 114 | 69-129 | | | |
| Bromomethane | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 57-138 | | | |
| 2-Butanone (MEK) | 33.2 | 5.0 | ug/l | 25.0 | | 133 | 53-150 | | | |
| n-Butylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| tert-Butylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | | | |
| Carbon disulfide | 26.2 | 1.0 | ug/l | 25.0 | | 105 | 64-145 | | | |
| Carbon tetrachloride | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | | | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Chloroethane | 28.2 | 1.0 | ug/l | 25.0 | | 113 | 66-131 | | | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Chloromethane | 27.3 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | | | |
| 2-Chlorotoluene | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| 4-Chlorotoluene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Dibromochloromethane | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 46-144 | | | |
| 1,1-Dichloroethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,2-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 66-139 | | | |
| 1,1-Dichloroethene | 31.8 | 0.50 | ug/l | 25.0 | | 127 | 63-131 | | | |
| cis-1,2-Dichloroethene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| trans-1,2-Dichloroethene | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 69-127 | | | |
| 1,2-Dichloropropane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,3-Dichloropropane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 2,2-Dichloropropane | 30.5 | 1.0 | ug/l | 25.0 | | 122 | 69-139 | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0485-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| trans-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Hexachlorobutadiene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 76-145 | | | |
| 2-Hexanone | 31.6 | 2.5 | ug/l | 25.0 | | 126 | 55-150 | | | |
| Iodomethane | 28.2 | 2.5 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Isopropylbenzene | 32.9 | 0.50 | ug/l | 25.0 | | 132 | 88-141 | | | |
| p-Isopropyltoluene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Methylene Chloride | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 78-143 | | | |
| n-Propylbenzene | 30.8 | 0.50 | ug/l | 25.0 | | 123 | 70-130 | | | |
| Styrene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Tetrachloroethene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Toluene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 80-137 | | | |
| 1,1,1-Trichloroethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | | 130 | 69-150 | | | |
| 1,2,3-Trichloropropane | 27.9 | 2.0 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Vinyl Acetate | 40.1 | 2.0 | ug/l | 25.0 | | 160 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 65-137 | | | |
| Xylenes, Total | 56.0 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 28.9 | 2.0 | ug/l | 25.0 | | 116 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0485-BSD1)** | | | | | | | | | | |
| Acetone | 30.7 | 20 | ug/l | 25.0 | | 123 | 38-150 | 28 | 35 | |
| Benzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 5 | 20 | |
| Bromobenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Bromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 4 | 20 | |
| Bromoform | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 69-129 | 7 | 20 | |
| Bromomethane | 25.1 | 1.0 | ug/l | 25.0 | | 101 | 57-138 | 7 | 20 | |
| 2-Butanone (MEK) | 27.1 | 5.0 | ug/l | 25.0 | | 109 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 1 | 20 | |
| sec-Butylbenzene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 0.8 | 20 | |
| tert-Butylbenzene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | 1 | 20 | |
| Carbon disulfide | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 64-145 | 7 | 33 | |
| Carbon tetrachloride | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-143 | 5 | 20 | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.2 | 20 | |
| Chloroethane | 27.0 | 1.0 | ug/l | 25.0 | | 108 | 66-131 | 4 | 20 | |
| Chloroform | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 4 | 20 | |
| Chloromethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 6 | 20 | |
| 2-Chlorotoluene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 3 | 20 | |
| 4-Chlorotoluene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 23.0 | 5.0 | ug/l | 25.0 | | 92 | 63-146 | 17 | 22 | |
| 1,2-Dibromoethane (EDB) | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 5 | 20 | |
| Dibromomethane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 7 | 20 | |
| 1,2-Dichlorobenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| 1,4-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.8 | 20 | |
| Dichlorodifluoromethane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 4 | 20 | |
| 1,2-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | | 107 | 66-139 | 5 | 20 | |
| 1,1-Dichloroethene | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 63-131 | 7 | 22 | |
| cis-1,2-Dichloroethene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| trans-1,2-Dichloroethene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 69-127 | 5 | 20 | |
| 1,2-Dichloropropane | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 1,3-Dichloropropane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| 2,2-Dichloropropane | 28.4 | 1.0 | ug/l | 25.0 | | 114 | 69-139 | 7 | 20 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0485-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| trans-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 4 | 20 | |
| Ethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Hexachlorobutadiene | 26.2 | 1.0 | ug/l | 25.0 | | 105 | 76-145 | 0.7 | 20 | |
| 2-Hexanone | 28.4 | 2.5 | ug/l | 25.0 | | 113 | 55-150 | 11 | 35 | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | 5 | 20 | |
| Isopropylbenzene | 32.4 | 0.50 | ug/l | 25.0 | | 130 | 88-141 | 2 | 20 | |
| p-Isopropyltoluene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 0.6 | 20 | |
| Methylene Chloride | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 63-128 | 5 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 22.9 | 5.0 | ug/l | 25.0 | | 92 | 64-142 | 14 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 5 | 20 | |
| Naphthalene | 23.7 | 5.0 | ug/l | 25.0 | | 95 | 78-143 | 13 | 20 | |
| n-Propylbenzene | 30.8 | 0.50 | ug/l | 25.0 | | 123 | 70-130 | 0.03 | 20 | |
| Styrene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.04 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 0.4 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 9 | 20 | |
| Tetrachloroethene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Toluene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 4 | 20 | |
| 1,2,3-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 79-139 | 7 | 20 | |
| 1,2,4-Trichlorobenzene | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 80-137 | 3 | 20 | |
| 1,1,1-Trichloroethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 71-131 | 4 | 20 | |
| 1,1,2-Trichloroethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 4 | 20 | |
| Trichloroethene | 28.1 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | 5 | 22 | |
| 1,2,3-Trichloropropane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 2 | 20 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Vinyl Acetate | 35.5 | 2.0 | ug/l | 25.0 | | 142 | 67-148 | 12 | 22 | *N1a* |
| Vinyl chloride | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 65-137 | 5 | 20 | |
| Xylenes, Total | 55.8 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | 0.3 | 20 | |
| Freon 113 | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 65-139 | 5 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0485-MS1)** | | | | | **Source: PWC0592-06** | | | | | |
| Acetone | 15.5 | 20 | ug/l | 25.0 | ND | 62 | 29-139 | | | |
| Benzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | | | |
| Bromobenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Bromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 64-132 | | | |
| Bromodichloromethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-138 | | | |
| Bromoform | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 60-128 | | | |
| Bromomethane | 24.1 | 1.0 | ug/l | 25.0 | ND | 96 | 47-144 | | | |
| 2-Butanone (MEK) | 22.2 | 5.0 | ug/l | 25.0 | ND | 89 | 31-143 | | | |
| n-Butylbenzene | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 69-140 | | | |
| sec-Butylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 72-136 | | | |
| tert-Butylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 74-135 | | | |
| Carbon disulfide | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 45-150 | | | |
| Carbon tetrachloride | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 65-147 | | | |
| Chlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| Chloroethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 57-139 | | | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | 1.37 | 102 | 63-131 | | | |
| Chloromethane | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 47-134 | | | |
| 2-Chlorotoluene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | | | |
| 4-Chlorotoluene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromochloromethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| Dibromomethane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| Dichlorodifluoromethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 40-148 | | | |
| 1,1-Dichloroethane | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 62-130 | | | |
| 1,2-Dichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 57-137 | | | |
| cis-1,2-Dichloroethene | 27.9 | 0.50 | ug/l | 25.0 | 0.840 | 108 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | | | |
| 1,3-Dichloropropane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | | | |
| 2,2-Dichloropropane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0485-MS1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,1-Dichloropropene | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| trans-1,3-Dichloropropene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 58-136 | | | |
| Ethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | | | |
| Hexachlorobutadiene | 27.3 | 1.0 | ug/l | 25.0 | ND | 109 | 69-150 | | | |
| 2-Hexanone | 25.1 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | | | |
| Iodomethane | 26.4 | 2.5 | ug/l | 25.0 | ND | 106 | 53-150 | | | |
| Isopropylbenzene | 31.9 | 0.50 | ug/l | 25.0 | ND | 127 | 80-146 | | | |
| p-Isopropyltoluene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-133 | | | |
| Methylene Chloride | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 67-138 | | | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | ND | 104 | 67-146 | | | |
| n-Propylbenzene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | | | |
| Tetrachloroethene | 29.2 | 0.50 | ug/l | 25.0 | 0.750 | 114 | 67-131 | | | |
| Toluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 33.8 | 0.50 | ug/l | 25.0 | 5.57 | 113 | 66-132 | | | |
| Trichlorofluoromethane | 30.3 | 0.50 | ug/l | 25.0 | ND | 121 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 66-137 | | | |
| Vinyl Acetate | 36.0 | 2.0 | ug/l | 25.0 | ND | 144 | 47-150 | | | *N1a* |
| Vinyl chloride | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | | | |
| Xylenes, Total | 55.5 | 1.0 | ug/l | 50.0 | ND | 111 | 68-131 | | | |
| Freon 113 | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0485-MSD1)** | | | | | **Source: PWC0592-06** | | | | | |
| Acetone | 17.1 | 20 | ug/l | 25.0 | ND | 68 | 29-139 | 10 | 35 | |
| Benzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 68-131 | 0.9 | 32 | |
| Bromobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 0.2 | 28 | |
| Bromochloromethane | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 64-132 | 1 | 35 | |
| Bromodichloromethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-138 | 0.7 | 31 | |
| Bromoform | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 60-128 | 0.8 | 31 | |
| Bromomethane | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 47-144 | 3 | 35 | |
| 2-Butanone (MEK) | 23.1 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 4 | 35 | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 72-136 | 2 | 33 | |
| tert-Butylbenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 119 | 74-135 | 0.6 | 32 | |
| Carbon disulfide | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 45-150 | 2 | 35 | |
| Carbon tetrachloride | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-147 | 0.4 | 35 | |
| Chlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 0.07 | 30 | |
| Chloroethane | 27.4 | 1.0 | ug/l | 25.0 | ND | 109 | 57-139 | 5 | 35 | |
| Chloroform | 27.4 | 0.50 | ug/l | 25.0 | 1.37 | 104 | 63-131 | 2 | 33 | |
| Chloromethane | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 47-134 | 3 | 35 | |
| 2-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 71-131 | 3 | 29 | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 65-134 | 0.7 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.7 | 5.0 | ug/l | 25.0 | ND | 103 | 53-145 | 0.9 | 35 | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 0.1 | 33 | |
| Dibromomethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | 3 | 35 | |
| 1,2-Dichlorobenzene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | 1 | 27 | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 3 | 28 | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 40-148 | 0.2 | 35 | |
| 1,1-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 62-130 | 3 | 34 | |
| 1,2-Dichloroethane | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 54-147 | 2 | 35 | |
| 1,1-Dichloroethene | 30.4 | 0.50 | ug/l | 25.0 | ND | 122 | 57-137 | 2 | 35 | |
| cis-1,2-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | 0.840 | 110 | 65-127 | 2 | 34 | |
| trans-1,2-Dichloroethene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 62-131 | 3 | 35 | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | 0.4 | 32 | |
| 1,3-Dichloropropane | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 68-129 | 0.5 | 33 | |
| 2,2-Dichloropropane | 29.1 | 1.0 | ug/l | 25.0 | ND | 117 | 60-146 | 5 | 35 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0485-MSD1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,1-Dichloropropene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 64-134 | 2 | 34 | |
| cis-1,3-Dichloropropene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 1 | 35 | |
| trans-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 58-136 | 2 | 35 | |
| Ethylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | 0.3 | 32 | |
| Hexachlorobutadiene | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 69-150 | 1 | 32 | |
| 2-Hexanone | 24.9 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | 0.8 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | ND | 109 | 53-150 | 3 | 35 | |
| Isopropylbenzene | 32.6 | 0.50 | ug/l | 25.0 | ND | 130 | 80-146 | 2 | 32 | |
| p-Isopropyltoluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-133 | 2 | 32 | |
| Methylene Chloride | 24.4 | 1.0 | ug/l | 25.0 | ND | 97 | 55-133 | 2 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 52-143 | 1 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | 3 | 21 | |
| Naphthalene | 27.0 | 5.0 | ug/l | 25.0 | ND | 108 | 67-146 | 4 | 29 | |
| n-Propylbenzene | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 74-140 | 2 | 32 | |
| Styrene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 43-144 | 2 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 2 | 30 | |
| 1,1,2,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-137 | 2 | 32 | |
| Tetrachloroethene | 29.0 | 0.50 | ug/l | 25.0 | 0.750 | 113 | 67-131 | 0.7 | 31 | |
| Toluene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 65-138 | 1 | 33 | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 74-139 | 3 | 26 | |
| 1,2,4-Trichlorobenzene | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 74-138 | 3 | 26 | |
| 1,1,1-Trichloroethane | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 64-138 | 4 | 35 | |
| 1,1,2-Trichloroethane | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | 0.7 | 35 | |
| Trichloroethene | 34.2 | 0.50 | ug/l | 25.0 | 5.57 | 115 | 66-132 | 1 | 29 | |
| Trichlorofluoromethane | 31.6 | 0.50 | ug/l | 25.0 | ND | 126 | 62-150 | 4 | 35 | |
| 1,2,3-Trichloropropane | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 68-130 | 0.5 | 32 | |
| 1,2,4-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | 2 | 31 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | 2 | 30 | |
| Vinyl Acetate | 35.9 | 2.0 | ug/l | 25.0 | ND | 144 | 47-150 | 0.4 | 35 | *N1a* |
| Vinyl chloride | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 55-146 | 2 | 35 | |
| Xylenes, Total | 56.5 | 1.0 | ug/l | 50.0 | ND | 113 | 68-131 | 2 | 31 | |
| Freon 113 | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 52-149 | 4 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.6* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0469 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0469-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *13.8* | | *ug/l* | *20.0* | | *69* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.7* | | *ug/l* | *20.0* | | *89* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0469-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.4 | 1.0 | ug/l | 20.0 | | 102 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *14.8* | | *ug/l* | *20.0* | | *74* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.8* | | *ug/l* | *20.0* | | *89* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0469-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.4 | 1.0 | ug/l | 20.0 | | 102 | 85-116 | 0.05 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *14.9* | | *ug/l* | *20.0* | | *74* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.4* | | *ug/l* | *20.0* | | *92* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0469-MS1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | 21.3 | ND | | 65-138 | | | *N1a* |
| *Surrogate: 1,4-Dioxane-d8* | *14.3* | | *ug/l* | *21.3* | | *67* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.3* | | *ug/l* | *21.3* | | *86* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/19/2013 (13C0469-MSD1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | 21.9 | ND | | 65-138 | | 20 | *N1a* |
| *Surrogate: 1,4-Dioxane-d8* | *16.4* | | *ug/l* | *21.9* | | *75* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.3* | | *ug/l* | *21.9* | | *93* | *27-143* | | | |
| **Batch: 13C0862 Extracted: 03/21/13** | | | | | | | | | | |
| **Blank Analyzed: 03/23/2013 (13C0862-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *15.9* | | *ug/l* | *20.0* | | *80* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.6* | | *ug/l* | *20.0* | | *103* | *27-143* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0862 Extracted: 03/21/13** | | | | | | | | | | |
| **LCS Analyzed: 03/23/2013 (13C0862-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.0 | 1.0 | ug/l | 20.0 | | 105 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *15.2* | | *ug/l* | *20.0* | | *76* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *21.0* | | *ug/l* | *20.0* | | *105* | *28-150* | | | |
| **LCS Dup Analyzed: 03/23/2013 (13C0862-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.1 | 1.0 | ug/l | 20.0 | | 106 | 85-116 | 0.4 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *15.6* | | *ug/l* | *20.0* | | *78* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *21.3* | | *ug/l* | *20.0* | | *106* | *28-150* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/08/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0592 | Received: 03/08/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **H4** | Sample was extracted past required extraction holding time, but analyzed within analysis holding time. |
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **S7** | Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0592

Sampled: 03/08/13
Received: 03/08/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

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Kylie Emily For Vic Nielsen
Project Manager

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PWC0592

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

## CHAIN OF CUSTODY FORM

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[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: [illegible]
7272 E Indian School Rd #100
Scottsdale AZ 85251

Project/PO Number: [illegible]

Project Manager: [illegible]

Phone Number: 480-[illegible]

Sampler: [illegible] (602-[illegible])

Fax Number:

Analysis Required: VOC 8260B; 1,4-Dioxane 8270D; RA 226/228

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260B | 1,4-Dioxane 8270D | RA 226/228 | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | W | [illegible] | 5 | 3/5/13 | 0833 | HCl | X | X | | | 01 | | | | | | |
| [illegible] | | | | 3/5/13 | 0833 | | X | X | | | 02 | | | | | | |
| [illegible] | | | | 3/5/13 | 0930 | | X | X | | | 03 | | | | | | |
| [illegible] | | | | 3/5/13 | 1007 | | X | X | | | 04 | | | | | | |
| [illegible] | | | | 3/5/13 | 1007 | | X | X | | | 05 | | | | | | |
| [illegible] | | [illegible] | 10 | 3/5/13 | 1345 | | X | X | X | | 06 | | | | | | |
| [illegible] | | [illegible] | 5 | 3/5/13 | 1350 | | X | X | | | 07 | | | | | | |
| [illegible] | | [illegible] | 1 | 3/5/13 | – | HCl | X | | | | 08 | | | | | | Trip Blank |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [illegible] TEAM | 3/5/13 1356 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: Aharon Malone | Date/Time: 3/8/13 1356 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

6.2°C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/08/13
Received: 03/08/13
Revised: 04/28/13 14:35

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0593-01 | OU3-8D-D-030813 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 0°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-Vinyl Acetate-The initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1-1,4 Dioxane -Due to employee oversight 1,4-Dioxane was not spiked in the Matrix Spike and Matrix Spike Duplicate for batch 13C0469..<br>N1a-RPD exceeded acceptance limits for the LCS/LCSD and the LCS and/or LCSD recovery exceeded acceptance limits. The analyte was not detected in the associated samples; therefore, the data is not impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 042813 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0593-01 (OU3-8D-D-030813 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0447 | 20 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Benzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Carbon disulfide | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloroform | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0593-01 (OU3-8D-D-030813 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0447 | 2.5 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0447 | 2.5 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| p-Isopropyltoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Styrene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | V1, N1 |
| Vinyl chloride | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *100 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0593-01 (OU3-8D-D-030813 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0469 | 1.0 | ND | 1.03 | 3/12/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *66 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *82 %* | | | | |

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Scottsdale, AZ 85251
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Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/12/2013 (13C0447-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/12/2013 (13C0447-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *V1, N1* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Analyzed: 03/12/2013 (13C0447-BS1)** | | | | | | | | | | |
| Acetone | 39.1 | 20 | ug/l | 25.0 | | 156 | 38-150 | | | *L3* |
| Benzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromobenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| Bromochloromethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Bromodichloromethane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromoform | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 69-129 | | | |
| Bromomethane | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | | | |
| 2-Butanone (MEK) | 31.6 | 5.0 | ug/l | 25.0 | | 126 | 53-150 | | | |
| n-Butylbenzene | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | | | |
| sec-Butylbenzene | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | | | |
| tert-Butylbenzene | 31.4 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | | | |
| Carbon disulfide | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 64-145 | | | |
| Carbon tetrachloride | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 70-143 | | | |
| Chlorobenzene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Chloroethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 66-131 | | | |
| Chloroform | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Chloromethane | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 56-129 | | | |
| 2-Chlorotoluene | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Dibromochloromethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Dibromomethane | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Dichlorodifluoromethane | 28.4 | 0.50 | ug/l | 25.0 | | 113 | 46-144 | | | |
| 1,1-Dichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 66-139 | | | |
| 1,1-Dichloroethene | 30.7 | 0.50 | ug/l | 25.0 | | 123 | 63-131 | | | |
| cis-1,2-Dichloroethene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| trans-1,2-Dichloroethene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 69-127 | | | |
| 1,2-Dichloropropane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,3-Dichloropropane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 2,2-Dichloropropane | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 69-139 | | | |

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Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Analyzed: 03/12/2013 (13C0447-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| cis-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Ethylbenzene | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Hexachlorobutadiene | 31.4 | 1.0 | ug/l | 25.0 | | 125 | 76-145 | | | |
| 2-Hexanone | 34.2 | 2.5 | ug/l | 25.0 | | 137 | 55-150 | | | |
| Iodomethane | 25.8 | 2.5 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Isopropylbenzene | 33.6 | 0.50 | ug/l | 25.0 | | 135 | 88-141 | | | |
| p-Isopropyltoluene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | | | |
| Methylene Chloride | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| Naphthalene | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 78-143 | | | |
| n-Propylbenzene | 31.9 | 0.50 | ug/l | 25.0 | | 127 | 70-130 | | | |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Toluene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 80-137 | | | |
| 1,1,1-Trichloroethane | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Trichloroethene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Trichlorofluoromethane | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 69-150 | | | |
| 1,2,3-Trichloropropane | 30.1 | 2.0 | ug/l | 25.0 | | 120 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Vinyl Acetate | 37.0 | 2.0 | ug/l | 25.0 | | 148 | 67-148 | | | *V1, N1* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 56.2 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 29.2 | 2.0 | ug/l | 25.0 | | 117 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/12/2013 (13C0447-BSD1)** | | | | | | | | | | |
| Acetone | 27.2 | 20 | ug/l | 25.0 | | 109 | 38-150 | 36 | 35 | *N1a* |
| Benzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Bromobenzene | 30.1 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 7 | 20 | |
| Bromochloromethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.5 | 20 | |
| Bromoform | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 69-129 | 6 | 20 | |
| Bromomethane | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | 0.1 | 20 | |
| 2-Butanone (MEK) | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 53-150 | 16 | 35 | |
| n-Butylbenzene | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 34.1 | 0.50 | ug/l | 25.0 | | 137 | 70-130 | 9 | 20 | *L3* |
| tert-Butylbenzene | 35.2 | 0.50 | ug/l | 25.0 | | 141 | 70-130 | 11 | 20 | *L3* |
| Carbon disulfide | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 70-143 | 6 | 20 | |
| Chlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Chloroethane | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 66-131 | 0.9 | 20 | |
| Chloroform | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| Chloromethane | 25.9 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 2 | 20 | |
| 2-Chlorotoluene | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 70-130 | 7 | 20 | |
| 4-Chlorotoluene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 5 | 20 | |
| Dibromochloromethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 63-146 | 0.03 | 22 | |
| 1,2-Dibromoethane (EDB) | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.4 | 20 | |
| Dibromomethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 5 | 20 | |
| 1,2-Dichlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | 29.1 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.4 | 20 | |
| Dichlorodifluoromethane | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 46-144 | 2 | 23 | |
| 1,1-Dichloroethane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.7 | 20 | |
| 1,2-Dichloroethane | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 66-139 | 4 | 20 | |
| 1,1-Dichloroethene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 63-131 | 3 | 22 | |
| cis-1,2-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 69-127 | 1 | 20 | |
| 1,2-Dichloropropane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 0.2 | 20 | |
| 1,3-Dichloropropane | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 0.08 | 20 | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 115 | 69-139 | 7 | 20 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/12/2013 (13C0447-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 0.9 | 20 | |
| trans-1,3-Dichloropropene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 5 | 20 | |
| Ethylbenzene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 3 | 20 | |
| Hexachlorobutadiene | 29.9 | 1.0 | ug/l | 25.0 | | 119 | 76-145 | 5 | 20 | |
| 2-Hexanone | 29.3 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | 15 | 35 | |
| Iodomethane | 26.0 | 2.5 | ug/l | 25.0 | | 104 | 70-130 | 0.8 | 20 | |
| Isopropylbenzene | 37.2 | 0.50 | ug/l | 25.0 | | 149 | 88-141 | 10 | 20 | *L3* |
| p-Isopropyltoluene | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 6 | 20 | |
| Methylene Chloride | 23.3 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | 0.9 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 64-142 | 4 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 3 | 20 | |
| Naphthalene | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 34.8 | 0.50 | ug/l | 25.0 | | 139 | 70-130 | 9 | 20 | *L3* |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.04 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 30.6 | 0.50 | ug/l | 25.0 | | 122 | 70-130 | 4 | 20 | |
| Tetrachloroethene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | 6 | 20 | |
| Toluene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 79-139 | 13 | 20 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 80-137 | 14 | 20 | |
| 1,1,1-Trichloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 71-131 | 3 | 20 | |
| 1,1,2-Trichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 4 | 20 | |
| Trichloroethene | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 33.7 | 0.50 | ug/l | 25.0 | | 135 | 69-150 | 5 | 22 | |
| 1,2,3-Trichloropropane | 31.5 | 2.0 | ug/l | 25.0 | | 126 | 70-130 | 4 | 20 | |
| 1,2,4-Trimethylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 5 | 20 | |
| 1,3,5-Trimethylbenzene | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 33.8 | 2.0 | ug/l | 25.0 | | 135 | 67-148 | 9 | 22 | *V1, N1* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | 3 | 20 | |
| Xylenes, Total | 58.1 | 1.0 | ug/l | 50.0 | | 116 | 70-130 | 3 | 20 | |
| Freon 113 | 31.2 | 2.0 | ug/l | 25.0 | | 125 | 65-139 | 6 | 27 | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.8* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/12/2013 (13C0447-MS1)** | | | | | **Source: PWC0597-01** | | | | | |
| Acetone | 17.8 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | | | |
| Benzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 68-131 | | | |
| Bromobenzene | 30.4 | 0.50 | ug/l | 25.0 | ND | 121 | 70-130 | | | |
| Bromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 64-132 | | | |
| Bromodichloromethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-138 | | | |
| Bromoform | 29.5 | 1.0 | ug/l | 25.0 | ND | 118 | 60-128 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 47-144 | | | |
| 2-Butanone (MEK) | 21.4 | 5.0 | ug/l | 25.0 | ND | 86 | 31-143 | | | |
| n-Butylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 125 | 69-140 | | | |
| sec-Butylbenzene | 32.7 | 0.50 | ug/l | 25.0 | ND | 131 | 72-136 | | | |
| tert-Butylbenzene | 33.6 | 0.50 | ug/l | 25.0 | ND | 134 | 74-135 | | | |
| Carbon disulfide | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 45-150 | | | |
| Carbon tetrachloride | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 65-147 | | | |
| Chlorobenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | | | |
| Chloroethane | 28.6 | 1.0 | ug/l | 25.0 | ND | 114 | 57-139 | | | |
| Chloroform | 27.3 | 0.50 | ug/l | 25.0 | 0.430 | 107 | 63-131 | | | |
| Chloromethane | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 47-134 | | | |
| 2-Chlorotoluene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 71-131 | | | |
| 4-Chlorotoluene | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 70-130 | | | |
| Dibromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 66-136 | | | |
| 1,2-Dichlorobenzene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| 1,3-Dichlorobenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 70-130 | | | |
| 1,4-Dichlorobenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| Dichlorodifluoromethane | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 40-148 | | | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 62-130 | | | |
| 1,2-Dichloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 54-147 | | | |
| 1,1-Dichloroethene | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 57-137 | | | |
| cis-1,2-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 65-127 | | | |
| trans-1,2-Dichloroethene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 62-131 | | | |
| 1,2-Dichloropropane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 68-126 | | | |
| 1,3-Dichloropropane | 27.0 | 0.50 | ug/l | 25.0 | 0.660 | 105 | 68-129 | | | |
| 2,2-Dichloropropane | 28.1 | 1.0 | ug/l | 25.0 | ND | 112 | 60-146 | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/12/2013 (13C0447-MS1)** | | | | | **Source: PWC0597-01** | | | | | |
| 1,1-Dichloropropene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 58-136 | | | |
| Ethylbenzene | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 74-134 | | | |
| Hexachlorobutadiene | 29.0 | 1.0 | ug/l | 25.0 | ND | 116 | 69-150 | | | |
| 2-Hexanone | 25.2 | 2.5 | ug/l | 25.0 | ND | 101 | 40-142 | | | |
| Iodomethane | 27.7 | 2.5 | ug/l | 25.0 | ND | 111 | 53-150 | | | |
| Isopropylbenzene | 36.2 | 0.50 | ug/l | 25.0 | ND | 145 | 80-146 | | | |
| p-Isopropyltoluene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 70-133 | | | |
| Methylene Chloride | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.8 | 5.0 | ug/l | 25.0 | ND | 99 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 67-138 | | | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | ND | 103 | 67-146 | | | |
| n-Propylbenzene | 33.8 | 0.50 | ug/l | 25.0 | ND | 135 | 74-140 | | | |
| Styrene | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 30.4 | 0.50 | ug/l | 25.0 | ND | 122 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 117 | 63-137 | | | |
| Tetrachloroethene | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 67-131 | | | |
| Toluene | 28.6 | 0.50 | ug/l | 25.0 | ND | 115 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 25.9 | 1.0 | ug/l | 25.0 | ND | 104 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | | | |
| Trichloroethene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 66-132 | | | |
| Trichlorofluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 31.7 | 0.50 | ug/l | 25.0 | ND | 127 | 66-137 | | | |
| Vinyl Acetate | 33.1 | 2.0 | ug/l | 25.0 | ND | 132 | 47-150 | | | *V1, N1* |
| Vinyl chloride | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 55-146 | | | |
| Xylenes, Total | 58.7 | 1.0 | ug/l | 50.0 | ND | 117 | 68-131 | | | |
| Freon 113 | 31.1 | 2.0 | ug/l | 25.0 | ND | 124 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.4* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/12/2013 (13C0447-MSD1)** | | | | | **Source: PWC0597-01** | | | | | |
| Acetone | 16.6 | 20 | ug/l | 25.0 | ND | 66 | 29-139 | 7 | 35 | |
| Benzene | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-131 | 9 | 32 | |
| Bromobenzene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 10 | 28 | |
| Bromochloromethane | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 64-132 | 13 | 35 | |
| Bromodichloromethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 63-138 | 11 | 31 | |
| Bromoform | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 60-128 | 8 | 31 | |
| Bromomethane | 23.0 | 1.0 | ug/l | 25.0 | ND | 92 | 47-144 | 11 | 35 | |
| 2-Butanone (MEK) | 22.1 | 5.0 | ug/l | 25.0 | ND | 88 | 31-143 | 3 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 69-140 | 9 | 32 | |
| sec-Butylbenzene | 30.3 | 0.50 | ug/l | 25.0 | ND | 121 | 72-136 | 7 | 33 | |
| tert-Butylbenzene | 30.8 | 0.50 | ug/l | 25.0 | ND | 123 | 74-135 | 9 | 32 | |
| Carbon disulfide | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 45-150 | 9 | 35 | |
| Carbon tetrachloride | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-147 | 7 | 35 | |
| Chlorobenzene | 25.9 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 10 | 30 | |
| Chloroethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | 11 | 35 | |
| Chloroform | 24.4 | 0.50 | ug/l | 25.0 | 0.430 | 96 | 63-131 | 11 | 33 | |
| Chloromethane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 47-134 | 11 | 35 | |
| 2-Chlorotoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | 10 | 29 | |
| 4-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 11 | 28 | |
| Dibromochloromethane | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 65-134 | 10 | 33 | |
| 1,2-Dibromo-3-chloropropane | 26.4 | 5.0 | ug/l | 25.0 | ND | 105 | 53-145 | 4 | 35 | |
| 1,2-Dibromoethane (EDB) | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 70-130 | 7 | 33 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 11 | 35 | |
| 1,2-Dichlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 10 | 27 | |
| 1,3-Dichlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | 10 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 10 | 26 | |
| Dichlorodifluoromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 40-148 | 10 | 35 | |
| 1,1-Dichloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 62-130 | 11 | 34 | |
| 1,2-Dichloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 54-147 | 10 | 35 | |
| 1,1-Dichloroethene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 57-137 | 10 | 35 | |
| cis-1,2-Dichloroethene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 62-131 | 10 | 35 | |
| 1,2-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 68-126 | 10 | 32 | |
| 1,3-Dichloropropane | 25.2 | 0.50 | ug/l | 25.0 | 0.660 | 98 | 68-129 | 7 | 33 | |
| 2,2-Dichloropropane | 25.6 | 1.0 | ug/l | 25.0 | ND | 103 | 60-146 | 9 | 35 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/12/2013 (13C0447-MSD1)** | | | | | **Source: PWC0597-01** | | | | | |
| 1,1-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 64-134 | 9 | 34 | |
| cis-1,3-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | 12 | 35 | |
| trans-1,3-Dichloropropene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 58-136 | 11 | 35 | |
| Ethylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-134 | 9 | 32 | |
| Hexachlorobutadiene | 28.7 | 1.0 | ug/l | 25.0 | ND | 115 | 69-150 | 0.8 | 32 | |
| 2-Hexanone | 25.1 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | 0.3 | 35 | |
| Iodomethane | 24.8 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 11 | 35 | |
| Isopropylbenzene | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 80-146 | 9 | 32 | |
| p-Isopropyltoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-133 | 8 | 32 | |
| Methylene Chloride | 22.3 | 1.0 | ug/l | 25.0 | ND | 89 | 55-133 | 12 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 23.9 | 5.0 | ug/l | 25.0 | ND | 96 | 52-143 | 4 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 67-138 | 11 | 21 | |
| Naphthalene | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 67-146 | 0.5 | 29 | |
| n-Propylbenzene | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 74-140 | 10 | 32 | |
| Styrene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 43-144 | 12 | 35 | |
| 1,1,1,2-Tetrachloroethane | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 11 | 30 | |
| 1,1,2,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-137 | 4 | 32 | |
| Tetrachloroethene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 67-131 | 7 | 31 | |
| Toluene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 65-138 | 11 | 33 | |
| 1,2,3-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 74-139 | 4 | 26 | |
| 1,2,4-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 74-138 | 5 | 26 | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | 10 | 35 | |
| 1,1,2-Trichloroethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 63-132 | 10 | 35 | |
| Trichloroethene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 66-132 | 10 | 29 | |
| Trichlorofluoromethane | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 62-150 | 10 | 35 | |
| 1,2,3-Trichloropropane | 27.1 | 2.0 | ug/l | 25.0 | ND | 108 | 68-130 | 5 | 32 | |
| 1,2,4-Trimethylbenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 10 | 31 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | 10 | 30 | |
| Vinyl Acetate | 30.0 | 2.0 | ug/l | 25.0 | ND | 120 | 47-150 | 10 | 35 | *V1, N1* |
| Vinyl chloride | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 8 | 35 | |
| Xylenes, Total | 53.7 | 1.0 | ug/l | 50.0 | ND | 107 | 68-131 | 9 | 31 | |
| Freon 113 | 28.7 | 2.0 | ug/l | 25.0 | ND | 115 | 52-149 | 8 | 35 | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0469 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0469-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *13.8* | | *ug/l* | *20.0* | | *69* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.7* | | *ug/l* | *20.0* | | *89* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0469-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.4 | 1.0 | ug/l | 20.0 | | 102 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *14.8* | | *ug/l* | *20.0* | | *74* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.8* | | *ug/l* | *20.0* | | *89* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0469-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.4 | 1.0 | ug/l | 20.0 | | 102 | 85-116 | 0.05 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *14.9* | | *ug/l* | *20.0* | | *74* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.4* | | *ug/l* | *20.0* | | *92* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0469-MS1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | 21.3 | ND | | 65-138 | | | *N1* |
| *Surrogate: 1,4-Dioxane-d8* | *14.3* | | *ug/l* | *21.3* | | *67* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.3* | | *ug/l* | *21.3* | | *86* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/19/2013 (13C0469-MSD1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | 21.9 | ND | | 65-138 | | 20 | *N1* |
| *Surrogate: 1,4-Dioxane-d8* | *16.4* | | *ug/l* | *21.9* | | *75* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.3* | | *ug/l* | *21.9* | | *93* | *27-143* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/08/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0593 | Received: 03/08/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0593

Sampled: 03/08/13
Received: 03/08/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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PWC0593

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

## CHAIN OF CUSTODY FORM

[✓] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: PCM

Project/PO Number:

Project Manager:

Phone Number:

Sampler:

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | [illegible] | [illegible] | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | W | [illegible] | 5 | 3/8/13 | 1152 | HNO3 | X | X | | | -01 | | | | | Level II |
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| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [signature] /EAN | 3/8/13 1356 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: Sharon Malone | Date/Time: 3/18/13 1356 | Sample Integrity: (Check) intact X on ice X 0.2°C |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/11/13
Received: 03/11/13
Revised: 04/28/13 14:55

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0675-01 | OU3-16M-M-031113-MS/MSD | Water |
| PWC0675-02 | OU3-10M-M-031113 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1/N1a-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>N1a-Vinyl Acetate- The initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl acetate. All associated samples have results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1b-RPD exceeded acceptance limits for the LCS/LCSD and the LCS and/or LCSD recovery exceeded acceptance limits. The analyte was not detected in the associated samples; therefore, the data is not impacted.<br>N1c-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Revised report on 042813 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0675-01 (OU3-16M-M-031113-MS/MSD - Water)**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0501 | 10 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| Chlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0501 | 0.50 | **1.8** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | V1, M1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0501 | 0.50 | **6.7** | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0501 | 0.50 | **10** | 1 | 3/13/2013 | 3/13/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0501 | 0.50 | **15** | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0675-01 (OU3-16M-M-031113-MS/MSD - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0501 | 0.50 | **4.2** | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0501 | 0.50 | **92** | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3, N1 |
| Vinyl chloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0501 | 1.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0675-02 (OU3-10M-M-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0447 | 20 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Benzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Carbon disulfide | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0447 | 0.50 | **3.6** | 1 | 3/12/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0447 | 0.50 | **1.4** | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0447 | 0.50 | **2.2** | 1 | 3/12/2013 | 3/13/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0447 | 0.50 | **1.7** | 1 | 3/12/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0675-02 (OU3-10M-M-031113 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0447 | 2.5 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0447 | 2.5 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| p-Isopropyltoluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0447 | 5.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | L3 |
| Styrene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0447 | 0.50 | **7.2** | 1 | 3/12/2013 | 3/13/2013 | |
| **Trichlorofluoromethane** | EPA 8260B | 13C0447 | 0.50 | **0.53** | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | V1, N1a |
| Vinyl chloride | EPA 8260B | 13C0447 | 0.50 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0447 | 1.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0447 | 2.0 | ND | 1 | 3/12/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *100 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0675-01 (OU3-16M-M-031113-MS/MSD - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0527 | 1.0 | **3.0** | 1 | 3/13/2013 | 3/19/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *78 %* | | | | |
| **Sample ID: PWC0675-02 (OU3-10M-M-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0527 | 1.0 | **1.0** | 1 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *33 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *86 %* | | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/12/2013 (13C0447-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Blank Analyzed: 03/12/2013 (13C0447-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *V1, N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.0* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Analyzed: 03/12/2013 (13C0447-BS1)** | | | | | | | | | | |
| Acetone | 39.1 | 20 | ug/l | 25.0 | | 156 | 38-150 | | | *L3* |
| Benzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromobenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| Bromochloromethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Bromodichloromethane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromoform | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 69-129 | | | |
| Bromomethane | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | | | |
| 2-Butanone (MEK) | 31.6 | 5.0 | ug/l | 25.0 | | 126 | 53-150 | | | |
| n-Butylbenzene | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | | | |
| sec-Butylbenzene | 31.2 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | | | |
| tert-Butylbenzene | 31.4 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | | | |
| Carbon disulfide | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 64-145 | | | |
| Carbon tetrachloride | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 70-143 | | | |
| Chlorobenzene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Chloroethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 66-131 | | | |
| Chloroform | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Chloromethane | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 56-129 | | | |
| 2-Chlorotoluene | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Dibromochloromethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Dibromomethane | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Dichlorodifluoromethane | 28.4 | 0.50 | ug/l | 25.0 | | 113 | 46-144 | | | |
| 1,1-Dichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 66-139 | | | |
| 1,1-Dichloroethene | 30.7 | 0.50 | ug/l | 25.0 | | 123 | 63-131 | | | |
| cis-1,2-Dichloroethene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| trans-1,2-Dichloroethene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 69-127 | | | |
| 1,2-Dichloropropane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,3-Dichloropropane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 2,2-Dichloropropane | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Analyzed: 03/12/2013 (13C0447-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| cis-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Ethylbenzene | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Hexachlorobutadiene | 31.4 | 1.0 | ug/l | 25.0 | | 125 | 76-145 | | | |
| 2-Hexanone | 34.2 | 2.5 | ug/l | 25.0 | | 137 | 55-150 | | | |
| Iodomethane | 25.8 | 2.5 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Isopropylbenzene | 33.6 | 0.50 | ug/l | 25.0 | | 135 | 88-141 | | | |
| p-Isopropyltoluene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | | | |
| Methylene Chloride | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| Naphthalene | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 78-143 | | | |
| n-Propylbenzene | 31.9 | 0.50 | ug/l | 25.0 | | 127 | 70-130 | | | |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Toluene | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 80-137 | | | |
| 1,1,1-Trichloroethane | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Trichloroethene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Trichlorofluoromethane | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 69-150 | | | |
| 1,2,3-Trichloropropane | 30.1 | 2.0 | ug/l | 25.0 | | 120 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| Vinyl Acetate | 37.0 | 2.0 | ug/l | 25.0 | | 148 | 67-148 | | | *V1, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 56.2 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 29.2 | 2.0 | ug/l | 25.0 | | 117 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/12/2013 (13C0447-BSD1)** | | | | | | | | | | |
| Acetone | 27.2 | 20 | ug/l | 25.0 | | 109 | 38-150 | 36 | 35 | *N1b* |
| Benzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Bromobenzene | 30.1 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 7 | 20 | |
| Bromochloromethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.5 | 20 | |
| Bromoform | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 69-129 | 6 | 20 | |
| Bromomethane | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | 0.1 | 20 | |
| 2-Butanone (MEK) | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 53-150 | 16 | 35 | |
| n-Butylbenzene | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 34.1 | 0.50 | ug/l | 25.0 | | 137 | 70-130 | 9 | 20 | *L3* |
| tert-Butylbenzene | 35.2 | 0.50 | ug/l | 25.0 | | 141 | 70-130 | 11 | 20 | *L3* |
| Carbon disulfide | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 70-143 | 6 | 20 | |
| Chlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| Chloroethane | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 66-131 | 0.9 | 20 | |
| Chloroform | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| Chloromethane | 25.9 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 2 | 20 | |
| 2-Chlorotoluene | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 70-130 | 7 | 20 | |
| 4-Chlorotoluene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 5 | 20 | |
| Dibromochloromethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 63-146 | 0.03 | 22 | |
| 1,2-Dibromoethane (EDB) | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.4 | 20 | |
| Dibromomethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 5 | 20 | |
| 1,2-Dichlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | 29.1 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.4 | 20 | |
| Dichlorodifluoromethane | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 46-144 | 2 | 23 | |
| 1,1-Dichloroethane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 0.7 | 20 | |
| 1,2-Dichloroethane | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 66-139 | 4 | 20 | |
| 1,1-Dichloroethene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 63-131 | 3 | 22 | |
| cis-1,2-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 69-127 | 1 | 20 | |
| 1,2-Dichloropropane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 0.2 | 20 | |
| 1,3-Dichloropropane | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 0.08 | 20 | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 115 | 69-139 | 7 | 20 | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/12/2013 (13C0447-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 0.9 | 20 | |
| trans-1,3-Dichloropropene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 5 | 20 | |
| Ethylbenzene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 3 | 20 | |
| Hexachlorobutadiene | 29.9 | 1.0 | ug/l | 25.0 | | 119 | 76-145 | 5 | 20 | |
| 2-Hexanone | 29.3 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | 15 | 35 | |
| Iodomethane | 26.0 | 2.5 | ug/l | 25.0 | | 104 | 70-130 | 0.8 | 20 | |
| Isopropylbenzene | 37.2 | 0.50 | ug/l | 25.0 | | 149 | 88-141 | 10 | 20 | *L3* |
| p-Isopropyltoluene | 32.0 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 6 | 20 | |
| Methylene Chloride | 23.3 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | 0.9 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 64-142 | 4 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 3 | 20 | |
| Naphthalene | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 34.8 | 0.50 | ug/l | 25.0 | | 139 | 70-130 | 9 | 20 | *L3* |
| Styrene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.04 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 30.6 | 0.50 | ug/l | 25.0 | | 122 | 70-130 | 4 | 20 | |
| Tetrachloroethene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | 6 | 20 | |
| Toluene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 79-139 | 13 | 20 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 80-137 | 14 | 20 | |
| 1,1,1-Trichloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 71-131 | 3 | 20 | |
| 1,1,2-Trichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 4 | 20 | |
| Trichloroethene | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 33.7 | 0.50 | ug/l | 25.0 | | 135 | 69-150 | 5 | 22 | |
| 1,2,3-Trichloropropane | 31.5 | 2.0 | ug/l | 25.0 | | 126 | 70-130 | 4 | 20 | |
| 1,2,4-Trimethylbenzene | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 5 | 20 | |
| 1,3,5-Trimethylbenzene | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 33.8 | 2.0 | ug/l | 25.0 | | 135 | 67-148 | 9 | 22 | *V1, N1a* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | 3 | 20 | |
| Xylenes, Total | 58.1 | 1.0 | ug/l | 50.0 | | 116 | 70-130 | 3 | 20 | |
| Freon 113 | 31.2 | 2.0 | ug/l | 25.0 | | 125 | 65-139 | 6 | 27 | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.8* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/12/2013 (13C0447-MS1)** | | | | | **Source: PWC0597-01** | | | | | |
| Acetone | 17.8 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | | | |
| Benzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 68-131 | | | |
| Bromobenzene | 30.4 | 0.50 | ug/l | 25.0 | ND | 121 | 70-130 | | | |
| Bromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 64-132 | | | |
| Bromodichloromethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-138 | | | |
| Bromoform | 29.5 | 1.0 | ug/l | 25.0 | ND | 118 | 60-128 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 47-144 | | | |
| 2-Butanone (MEK) | 21.4 | 5.0 | ug/l | 25.0 | ND | 86 | 31-143 | | | |
| n-Butylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 125 | 69-140 | | | |
| sec-Butylbenzene | 32.7 | 0.50 | ug/l | 25.0 | ND | 131 | 72-136 | | | |
| tert-Butylbenzene | 33.6 | 0.50 | ug/l | 25.0 | ND | 134 | 74-135 | | | |
| Carbon disulfide | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 45-150 | | | |
| Carbon tetrachloride | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 65-147 | | | |
| Chlorobenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | | | |
| Chloroethane | 28.6 | 1.0 | ug/l | 25.0 | ND | 114 | 57-139 | | | |
| Chloroform | 27.3 | 0.50 | ug/l | 25.0 | 0.430 | 107 | 63-131 | | | |
| Chloromethane | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 47-134 | | | |
| 2-Chlorotoluene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 71-131 | | | |
| 4-Chlorotoluene | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 70-130 | | | |
| Dibromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 66-136 | | | |
| 1,2-Dichlorobenzene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| 1,3-Dichlorobenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 70-130 | | | |
| 1,4-Dichlorobenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| Dichlorodifluoromethane | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 40-148 | | | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 62-130 | | | |
| 1,2-Dichloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 54-147 | | | |
| 1,1-Dichloroethene | 32.2 | 0.50 | ug/l | 25.0 | ND | 129 | 57-137 | | | |
| cis-1,2-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 65-127 | | | |
| trans-1,2-Dichloroethene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 62-131 | | | |
| 1,2-Dichloropropane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 68-126 | | | |
| 1,3-Dichloropropane | 27.0 | 0.50 | ug/l | 25.0 | 0.660 | 105 | 68-129 | | | |
| 2,2-Dichloropropane | 28.1 | 1.0 | ug/l | 25.0 | ND | 112 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/12/2013 (13C0447-MS1)** | | | | | **Source: PWC0597-01** | | | | | |
| 1,1-Dichloropropene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 58-136 | | | |
| Ethylbenzene | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 74-134 | | | |
| Hexachlorobutadiene | 29.0 | 1.0 | ug/l | 25.0 | ND | 116 | 69-150 | | | |
| 2-Hexanone | 25.2 | 2.5 | ug/l | 25.0 | ND | 101 | 40-142 | | | |
| Iodomethane | 27.7 | 2.5 | ug/l | 25.0 | ND | 111 | 53-150 | | | |
| Isopropylbenzene | 36.2 | 0.50 | ug/l | 25.0 | ND | 145 | 80-146 | | | |
| p-Isopropyltoluene | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 70-133 | | | |
| Methylene Chloride | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.8 | 5.0 | ug/l | 25.0 | ND | 99 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 67-138 | | | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | ND | 103 | 67-146 | | | |
| n-Propylbenzene | 33.8 | 0.50 | ug/l | 25.0 | ND | 135 | 74-140 | | | |
| Styrene | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 30.4 | 0.50 | ug/l | 25.0 | ND | 122 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 117 | 63-137 | | | |
| Tetrachloroethene | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 67-131 | | | |
| Toluene | 28.6 | 0.50 | ug/l | 25.0 | ND | 115 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 25.9 | 1.0 | ug/l | 25.0 | ND | 104 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | | | |
| Trichloroethene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 66-132 | | | |
| Trichlorofluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 31.7 | 0.50 | ug/l | 25.0 | ND | 127 | 66-137 | | | |
| Vinyl Acetate | 33.1 | 2.0 | ug/l | 25.0 | ND | 132 | 47-150 | | | *V1, N1a* |
| Vinyl chloride | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 55-146 | | | |
| Xylenes, Total | 58.7 | 1.0 | ug/l | 50.0 | ND | 117 | 68-131 | | | |
| Freon 113 | 31.1 | 2.0 | ug/l | 25.0 | ND | 124 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.4* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/12/2013 (13C0447-MSD1)** | | | | | **Source: PWC0597-01** | | | | | |
| Acetone | 16.6 | 20 | ug/l | 25.0 | ND | 66 | 29-139 | 7 | 35 | |
| Benzene | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-131 | 9 | 32 | |
| Bromobenzene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 10 | 28 | |
| Bromochloromethane | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 64-132 | 13 | 35 | |
| Bromodichloromethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 63-138 | 11 | 31 | |
| Bromoform | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 60-128 | 8 | 31 | |
| Bromomethane | 23.0 | 1.0 | ug/l | 25.0 | ND | 92 | 47-144 | 11 | 35 | |
| 2-Butanone (MEK) | 22.1 | 5.0 | ug/l | 25.0 | ND | 88 | 31-143 | 3 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 69-140 | 9 | 32 | |
| sec-Butylbenzene | 30.3 | 0.50 | ug/l | 25.0 | ND | 121 | 72-136 | 7 | 33 | |
| tert-Butylbenzene | 30.8 | 0.50 | ug/l | 25.0 | ND | 123 | 74-135 | 9 | 32 | |
| Carbon disulfide | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 45-150 | 9 | 35 | |
| Carbon tetrachloride | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-147 | 7 | 35 | |
| Chlorobenzene | 25.9 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 10 | 30 | |
| Chloroethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | 11 | 35 | |
| Chloroform | 24.4 | 0.50 | ug/l | 25.0 | 0.430 | 96 | 63-131 | 11 | 33 | |
| Chloromethane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 47-134 | 11 | 35 | |
| 2-Chlorotoluene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | 10 | 29 | |
| 4-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 11 | 28 | |
| Dibromochloromethane | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 65-134 | 10 | 33 | |
| 1,2-Dibromo-3-chloropropane | 26.4 | 5.0 | ug/l | 25.0 | ND | 105 | 53-145 | 4 | 35 | |
| 1,2-Dibromoethane (EDB) | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 70-130 | 7 | 33 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 11 | 35 | |
| 1,2-Dichlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 10 | 27 | |
| 1,3-Dichlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | 10 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 10 | 26 | |
| Dichlorodifluoromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 40-148 | 10 | 35 | |
| 1,1-Dichloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 62-130 | 11 | 34 | |
| 1,2-Dichloroethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 54-147 | 10 | 35 | |
| 1,1-Dichloroethene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 57-137 | 10 | 35 | |
| cis-1,2-Dichloroethene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 62-131 | 10 | 35 | |
| 1,2-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 68-126 | 10 | 32 | |
| 1,3-Dichloropropane | 25.2 | 0.50 | ug/l | 25.0 | 0.660 | 98 | 68-129 | 7 | 33 | |
| 2,2-Dichloropropane | 25.6 | 1.0 | ug/l | 25.0 | ND | 103 | 60-146 | 9 | 35 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0447 Extracted: 03/12/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/12/2013 (13C0447-MSD1)** | | | | | **Source: PWC0597-01** | | | | | |
| 1,1-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 64-134 | 9 | 34 | |
| cis-1,3-Dichloropropene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-135 | 12 | 35 | |
| trans-1,3-Dichloropropene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 58-136 | 11 | 35 | |
| Ethylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 74-134 | 9 | 32 | |
| Hexachlorobutadiene | 28.7 | 1.0 | ug/l | 25.0 | ND | 115 | 69-150 | 0.8 | 32 | |
| 2-Hexanone | 25.1 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | 0.3 | 35 | |
| Iodomethane | 24.8 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 11 | 35 | |
| Isopropylbenzene | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 80-146 | 9 | 32 | |
| p-Isopropyltoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-133 | 8 | 32 | |
| Methylene Chloride | 22.3 | 1.0 | ug/l | 25.0 | ND | 89 | 55-133 | 12 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 23.9 | 5.0 | ug/l | 25.0 | ND | 96 | 52-143 | 4 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 67-138 | 11 | 21 | |
| Naphthalene | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 67-146 | 0.5 | 29 | |
| n-Propylbenzene | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 74-140 | 10 | 32 | |
| Styrene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 43-144 | 12 | 35 | |
| 1,1,1,2-Tetrachloroethane | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 11 | 30 | |
| 1,1,2,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-137 | 4 | 32 | |
| Tetrachloroethene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 67-131 | 7 | 31 | |
| Toluene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 65-138 | 11 | 33 | |
| 1,2,3-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 74-139 | 4 | 26 | |
| 1,2,4-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 74-138 | 5 | 26 | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | 10 | 35 | |
| 1,1,2-Trichloroethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 63-132 | 10 | 35 | |
| Trichloroethene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 66-132 | 10 | 29 | |
| Trichlorofluoromethane | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 62-150 | 10 | 35 | |
| 1,2,3-Trichloropropane | 27.1 | 2.0 | ug/l | 25.0 | ND | 108 | 68-130 | 5 | 32 | |
| 1,2,4-Trimethylbenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 10 | 31 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | 10 | 30 | |
| Vinyl Acetate | 30.0 | 2.0 | ug/l | 25.0 | ND | 120 | 47-150 | 10 | 35 | *V1, N1a* |
| Vinyl chloride | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 8 | 35 | |
| Xylenes, Total | 53.7 | 1.0 | ug/l | 50.0 | ND | 107 | 68-131 | 9 | 31 | |
| Freon 113 | 28.7 | 2.0 | ug/l | 25.0 | ND | 115 | 52-149 | 8 | 35 | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0501-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | *V1* |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0501-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.5* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0501-BS1)** | | | | | | | | | | |
| Acetone | 27.1 | 20 | ug/l | 25.0 | | 108 | 38-150 | | | |
| Benzene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Bromobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Bromochloromethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Bromodichloromethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Bromoform | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 69-129 | | | |
| Bromomethane | 23.1 | 1.0 | ug/l | 25.0 | | 92 | 57-138 | | | |
| 2-Butanone (MEK) | 23.7 | 5.0 | ug/l | 25.0 | | 95 | 53-150 | | | |
| n-Butylbenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| sec-Butylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| tert-Butylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Carbon disulfide | 21.6 | 1.0 | ug/l | 25.0 | | 86 | 64-145 | | | |
| Carbon tetrachloride | 31.1 | 0.50 | ug/l | 25.0 | | 124 | 70-143 | | | *V1* |
| Chlorobenzene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Chloroethane | 24.4 | 1.0 | ug/l | 25.0 | | 97 | 66-131 | | | |
| Chloroform | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Chloromethane | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 56-129 | | | |
| 2-Chlorotoluene | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 4-Chlorotoluene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Dibromochloromethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 33.2 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Dibromomethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,3-Dichlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,4-Dichlorobenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Dichlorodifluoromethane | 22.9 | 0.50 | ug/l | 25.0 | | 91 | 46-144 | | | |
| 1,1-Dichloroethane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,2-Dichloroethane | 31.1 | 0.50 | ug/l | 25.0 | | 124 | 66-139 | | | |
| 1,1-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 63-131 | | | |
| cis-1,2-Dichloroethene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 69-127 | | | |
| 1,2-Dichloropropane | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| 1,3-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0501-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| cis-1,3-Dichloropropene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.1 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| Ethylbenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Hexachlorobutadiene | 24.6 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 55-150 | | | |
| Iodomethane | 26.4 | 2.5 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Isopropylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 88-141 | | | |
| p-Isopropyltoluene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Methylene Chloride | 22.1 | 1.0 | ug/l | 25.0 | | 88 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 24.9 | 5.0 | ug/l | 25.0 | | 100 | 78-143 | | | |
| n-Propylbenzene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Styrene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 23.3 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Tetrachloroethene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Toluene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 22.2 | 1.0 | ug/l | 25.0 | | 89 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 80-137 | | | |
| 1,1,1-Trichloroethane | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | | | |
| 1,1,2-Trichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Trichloroethene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | | 129 | 69-150 | | | |
| 1,2,3-Trichloropropane | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Vinyl Acetate | 41.4 | 2.0 | ug/l | 25.0 | | 165 | 67-148 | | | *L3* |
| Vinyl chloride | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 65-137 | | | |
| Xylenes, Total | 50.8 | 1.0 | ug/l | 50.0 | | 102 | 70-130 | | | |
| Freon 113 | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0501-BSD1)** | | | | | | | | | | |
| Acetone | 31.4 | 20 | ug/l | 25.0 | | 126 | 38-150 | 15 | 35 | |
| Benzene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 5 | 20 | |
| Bromobenzene | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 4 | 20 | |
| Bromochloromethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | 3 | 20 | |
| Bromoform | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 69-129 | 6 | 20 | |
| Bromomethane | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 57-138 | 1 | 20 | |
| 2-Butanone (MEK) | 26.4 | 5.0 | ug/l | 25.0 | | 105 | 53-150 | 11 | 35 | |
| n-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| tert-Butylbenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| Carbon disulfide | 21.9 | 1.0 | ug/l | 25.0 | | 87 | 64-145 | 1 | 33 | |
| Carbon tetrachloride | 32.2 | 0.50 | ug/l | 25.0 | | 129 | 70-143 | 4 | 20 | *V1* |
| Chlorobenzene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Chloroethane | 24.4 | 1.0 | ug/l | 25.0 | | 97 | 66-131 | 0.04 | 20 | |
| Chloroform | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| Chloromethane | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 56-129 | 4 | 20 | |
| 2-Chlorotoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| 4-Chlorotoluene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 3 | 20 | |
| Dibromochloromethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | | 145 | 63-146 | 9 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 6 | 20 | |
| Dibromomethane | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 2 | 20 | |
| Dichlorodifluoromethane | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 46-144 | 4 | 23 | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 2 | 20 | |
| 1,2-Dichloroethane | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 66-139 | 3 | 20 | |
| 1,1-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 63-131 | 0.2 | 22 | |
| cis-1,2-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 69-127 | 4 | 20 | |
| 1,2-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 7 | 20 | |
| 1,3-Dichloropropane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| 2,2-Dichloropropane | 29.1 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | 0.5 | 20 | |

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Report Number: PWC0675

Sampled: 03/11/13
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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0501-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 5 | 20 | |
| trans-1,3-Dichloropropene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 8 | 20 | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Hexachlorobutadiene | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 76-145 | 1 | 20 | |
| 2-Hexanone | 29.8 | 2.5 | ug/l | 25.0 | | 119 | 55-150 | 9 | 35 | |
| Iodomethane | 27.1 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| Isopropylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 88-141 | 2 | 20 | |
| p-Isopropyltoluene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 1 | 20 | |
| Methylene Chloride | 22.5 | 1.0 | ug/l | 25.0 | | 90 | 63-128 | 2 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 32.2 | 5.0 | ug/l | 25.0 | | 129 | 64-142 | 11 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 4 | 20 | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | | 103 | 78-143 | 4 | 20 | |
| n-Propylbenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 0.9 | 20 | |
| Styrene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 4 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 5 | 20 | |
| Tetrachloroethene | 25.9 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Toluene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 4 | 20 | |
| 1,2,3-Trichlorobenzene | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 79-139 | 0.6 | 20 | |
| 1,2,4-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 80-137 | 1 | 20 | |
| 1,1,1-Trichloroethane | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 71-131 | 0.4 | 20 | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 4 | 20 | |
| Trichloroethene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 1 | 20 | |
| Trichlorofluoromethane | 32.3 | 0.50 | ug/l | 25.0 | | 129 | 69-150 | 0.3 | 22 | |
| 1,2,3-Trichloropropane | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| 1,3,5-Trimethylbenzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 3 | 20 | |
| Vinyl Acetate | 44.3 | 2.0 | ug/l | 25.0 | | 177 | 67-148 | 7 | 22 | *L3* |
| Vinyl chloride | 25.9 | 0.50 | ug/l | 25.0 | | 103 | 65-137 | 3 | 20 | |
| Xylenes, Total | 51.8 | 1.0 | ug/l | 50.0 | | 104 | 70-130 | 2 | 20 | |
| Freon 113 | 26.1 | 2.0 | ug/l | 25.0 | | 105 | 65-139 | 0.8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.1* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0501-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| Acetone | 30.7 | 20 | ug/l | 25.0 | ND | 123 | 29-139 | | | |
| Benzene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Bromochloromethane | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 64-132 | | | |
| Bromodichloromethane | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 63-138 | | | |
| Bromoform | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 60-128 | | | |
| Bromomethane | 24.6 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | | | |
| 2-Butanone (MEK) | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 31-143 | | | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | | | |
| sec-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 72-136 | | | |
| tert-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-135 | | | |
| Carbon disulfide | 23.1 | 1.0 | ug/l | 25.0 | ND | 93 | 45-150 | | | |
| Carbon tetrachloride | 32.6 | 0.50 | ug/l | 25.0 | ND | 131 | 65-147 | | | *V1* |
| Chlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Chloroethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | | | |
| Chloroform | 29.4 | 0.50 | ug/l | 25.0 | 1.84 | 110 | 63-131 | | | |
| Chloromethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-134 | | | |
| 2-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 71-131 | | | |
| 4-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| Dibromochloromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 37.9 | 5.0 | ug/l | 25.0 | ND | 152 | 53-145 | | | *V1, M1* |
| 1,2-Dibromoethane (EDB) | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromomethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 66-136 | | | |
| 1,2-Dichlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 40-148 | | | |
| 1,1-Dichloroethane | 33.8 | 0.50 | ug/l | 25.0 | 6.68 | 109 | 62-130 | | | |
| 1,2-Dichloroethane | 34.0 | 0.50 | ug/l | 25.0 | ND | 136 | 54-147 | | | |
| 1,1-Dichloroethene | 39.2 | 0.50 | ug/l | 25.0 | 10.4 | 115 | 57-137 | | | |
| cis-1,2-Dichloroethene | 42.0 | 0.50 | ug/l | 25.0 | 14.7 | 109 | 65-127 | | | |
| trans-1,2-Dichloroethene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 62-131 | | | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | | | |
| 1,3-Dichloropropane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 68-129 | | | |
| 2,2-Dichloropropane | 32.6 | 1.0 | ug/l | 25.0 | ND | 130 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0501-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,1-Dichloropropene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| trans-1,3-Dichloropropene | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 58-136 | | | |
| Ethylbenzene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 74-134 | | | |
| Hexachlorobutadiene | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 69-150 | | | |
| 2-Hexanone | 28.2 | 2.5 | ug/l | 25.0 | ND | 113 | 40-142 | | | |
| Iodomethane | 28.0 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | | | |
| Isopropylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 80-146 | | | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | | | |
| Methylene Chloride | 23.3 | 1.0 | ug/l | 25.0 | ND | 93 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 32.2 | 5.0 | ug/l | 25.0 | ND | 129 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 67-138 | | | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 67-146 | | | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 74-140 | | | |
| Styrene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | | | |
| Tetrachloroethene | 31.5 | 0.50 | ug/l | 25.0 | 4.17 | 109 | 67-131 | | | |
| Toluene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-132 | | | |
| Trichloroethene | 122 | 0.50 | ug/l | 25.0 | 92.3 | 118 | 66-132 | | | |
| Trichlorofluoromethane | 35.6 | 0.50 | ug/l | 25.0 | ND | 142 | 62-150 | | | |
| 1,2,3-Trichloropropane | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 66-137 | | | |
| Vinyl Acetate | 41.6 | 2.0 | ug/l | 25.0 | ND | 167 | 47-150 | | | *N1a* |
| Vinyl chloride | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 55-146 | | | |
| Xylenes, Total | 54.4 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | | | |
| Freon 113 | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *24.8* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0501-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| Acetone | 29.6 | 20 | ug/l | 25.0 | ND | 118 | 29-139 | 4 | 35 | |
| Benzene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-131 | 0.8 | 32 | |
| Bromobenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 70-130 | 0.6 | 28 | |
| Bromochloromethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 64-132 | 0.2 | 35 | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | 3 | 31 | |
| Bromoform | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 60-128 | 1 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 0.4 | 35 | |
| 2-Butanone (MEK) | 28.6 | 5.0 | ug/l | 25.0 | ND | 114 | 31-143 | 3 | 35 | |
| n-Butylbenzene | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 0.2 | 32 | |
| sec-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 72-136 | 0.6 | 33 | |
| tert-Butylbenzene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 74-135 | 0.8 | 32 | |
| Carbon disulfide | 22.9 | 1.0 | ug/l | 25.0 | ND | 92 | 45-150 | 1 | 35 | |
| Carbon tetrachloride | 32.8 | 0.50 | ug/l | 25.0 | ND | 131 | 65-147 | 0.4 | 35 | *V1* |
| Chlorobenzene | 26.1 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 2 | 30 | |
| Chloroethane | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 57-139 | 2 | 35 | |
| Chloroform | 28.2 | 0.50 | ug/l | 25.0 | 1.84 | 105 | 63-131 | 4 | 33 | |
| Chloromethane | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 47-134 | 2 | 35 | |
| 2-Chlorotoluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 71-131 | 2 | 29 | |
| 4-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 1 | 28 | |
| Dibromochloromethane | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 65-134 | 1 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.5 | 5.0 | ug/l | 25.0 | ND | 146 | 53-145 | 4 | 35 | *V1, M1* |
| 1,2-Dibromoethane (EDB) | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 3 | 33 | |
| Dibromomethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 66-136 | 2 | 35 | |
| 1,2-Dichlorobenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 1 | 27 | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 3 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 0.3 | 26 | |
| Dichlorodifluoromethane | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 40-148 | 2 | 35 | |
| 1,1-Dichloroethane | 32.3 | 0.50 | ug/l | 25.0 | 6.68 | 103 | 62-130 | 5 | 34 | |
| 1,2-Dichloroethane | 33.0 | 0.50 | ug/l | 25.0 | ND | 132 | 54-147 | 3 | 35 | |
| 1,1-Dichloroethene | 38.6 | 0.50 | ug/l | 25.0 | 10.4 | 113 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 40.8 | 0.50 | ug/l | 25.0 | 14.7 | 105 | 65-127 | 3 | 34 | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 62-131 | 0.3 | 35 | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | 0.1 | 32 | |
| 1,3-Dichloropropane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 68-129 | 3 | 33 | |
| 2,2-Dichloropropane | 31.0 | 1.0 | ug/l | 25.0 | ND | 124 | 60-146 | 5 | 35 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0501-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 64-134 | 3 | 34 | |
| cis-1,3-Dichloropropene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 0.7 | 35 | |
| trans-1,3-Dichloropropene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 58-136 | 0.9 | 35 | |
| Ethylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 74-134 | 3 | 32 | |
| Hexachlorobutadiene | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | 4 | 32 | |
| 2-Hexanone | 28.8 | 2.5 | ug/l | 25.0 | ND | 115 | 40-142 | 2 | 35 | |
| Iodomethane | 27.2 | 2.5 | ug/l | 25.0 | ND | 109 | 53-150 | 3 | 35 | |
| Isopropylbenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 119 | 80-146 | 0.5 | 32 | |
| p-Isopropyltoluene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 70-133 | 1 | 32 | |
| Methylene Chloride | 21.9 | 1.0 | ug/l | 25.0 | ND | 88 | 55-133 | 6 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 32.3 | 5.0 | ug/l | 25.0 | ND | 129 | 52-143 | 0.09 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 67-138 | 2 | 21 | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 67-146 | 0.2 | 29 | |
| n-Propylbenzene | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 74-140 | 0.5 | 32 | |
| Styrene | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 43-144 | 4 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 0.04 | 32 | |
| Tetrachloroethene | 30.0 | 0.50 | ug/l | 25.0 | 4.17 | 103 | 67-131 | 5 | 31 | |
| Toluene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 65-138 | 1 | 33 | |
| 1,2,3-Trichlorobenzene | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 74-139 | 3 | 26 | |
| 1,2,4-Trichlorobenzene | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 74-138 | 3 | 26 | |
| 1,1,1-Trichloroethane | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 64-138 | 1 | 35 | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | 1 | 35 | |
| Trichloroethene | 116 | 0.50 | ug/l | 25.0 | 92.3 | 96 | 66-132 | 5 | 29 | |
| Trichlorofluoromethane | 34.2 | 0.50 | ug/l | 25.0 | ND | 137 | 62-150 | 4 | 35 | |
| 1,2,3-Trichloropropane | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 68-130 | 7 | 32 | |
| 1,2,4-Trimethylbenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 1 | 31 | |
| 1,3,5-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 66-137 | 0.1 | 30 | |
| Vinyl Acetate | 40.5 | 2.0 | ug/l | 25.0 | ND | 162 | 47-150 | 3 | 35 | *N1a* |
| Vinyl chloride | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 55-146 | 3 | 35 | |
| Xylenes, Total | 52.8 | 1.0 | ug/l | 50.0 | ND | 106 | 68-131 | 3 | 31 | |
| Freon 113 | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 52-149 | 1 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0527 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0527-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *4.63* | | *ug/l* | *20.0* | | *23* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *13.6* | | *ug/l* | *20.0* | | *68* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0527-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.49* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0527-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.8 | 1.0 | ug/l | 20.0 | | 104 | 85-116 | 5 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.45* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *14.3* | | *ug/l* | *20.0* | | *72* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0527-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 67.8 | 1.0 | ug/l | 20.4 | 3.03 | 317 | 65-138 | | | *M1* |
| *Surrogate: 1,4-Dioxane-d8* | *5.89* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *20.4* | | *78* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/20/2013 (13C0527-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 25.3 | 1.0 | ug/l | 20.4 | 3.03 | 109 | 65-138 | 91 | 20 | *N1c* |
| *Surrogate: 1,4-Dioxane-d8* | *5.99* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.4* | | *77* | *27-143* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/11/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0675 | Received: 03/11/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **M1** | Matrix spike recovery was high; the associated blank spike recovery was acceptable. |
| **N1** | See case narrative. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

**TestAmerica Phoenix**

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0675

Sampled: 03/11/13
Received: 03/11/13

## Certification Summary

**TestAmerica Phoenix**

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E Indian School Rd #100
Scottsdale AZ 85251

Project/PO Number: OC3
0090493

Project Manager: Jason.hilkemann.com

Phone Number: 480-990-2401

Sampler: adam.angle@erm.com 602-989-3817

Fax Number:

Analysis Required: VOC 8260B, 1,4 Dioxane 8270, Metals 6010B

PWC0675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260B | 1,4 Dioxane 8270 | Metals 6010B | | | | | | | Special Instructions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC3-IGM-M-03/11/13-MS/MSD | W | 40 ml VOA vial | 10 | 3/11/13 | 1113 | HCl | X | X | X | | | | | | | Level IV | -01 |
| OC3-IGM-F-03/11/13 | W | 250 ml poly | 3 | 3/11/13 | 1558 | HNO3 | X | X | | | | | | | | Level IV | -02 |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [signature] ERM | 3/11/13 1658 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [signature] | Date/Time: 3/11/13 16:55 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

0.8, 1.9c

TestAmerica
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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/11/13
Received: 03/11/13
Revised: 04/28/13 15:44

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0676-01 | EW-21-S-031113 | Water |
| PWC0676-02 | OU3-16s-S-031113 | Water |
| PWC0676-03 | OU3-16s-S-031113-Q1 | Water |
| PWC0676-04 | OU3-10M2-M-031113 | Water |
| PWC0676-05 | OU3-10s-S-031113 | Water |
| PWC0676-06 | OU3-10s-S-031113-Q1 | Water |
| PWC0676-07 | GW-EB5-031113 | Water |
| PWC0676-08 | GW-R1-1-031113 | Water |
| PWC0676-09 | GW-EB6-031113 | Water |
| PWC0676-10 | GW-L1-5-031113 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 1°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.<br>H4-Sample was extracted past required extraction holding time, but analyzed within analysis holding time for confirmation only. The original extraction had low surrogates; both sets of data are reported. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers..<br>N1a-Vinyl Acetate-The second source initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1a-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>N1b-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.<br>S7-Surrogate recovery was below acceptance limits. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 042813 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-01 (EW-21-S-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0485 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Benzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0485 | 0.50 | **0.74** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-01 (EW-21-S-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0485 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0485 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0485 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0485 | 0.50 | **0.75** | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0485 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0485 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0485 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0485 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0485 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *105 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *102 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-02 (OU3-16s-S-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0599 | 20 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0599 | 0.50 | **2.0** | 1 | 3/15/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0599 | 0.50 | **3.3** | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0599 | 0.50 | **4.3** | 1 | 3/15/2013 | 3/15/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0599 | 0.50 | **5.2** | 1 | 3/15/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-02 (OU3-16s-S-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0599 | 0.50 | **1.2** | 1 | 3/15/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0599 | 0.50 | **26** | 1 | 3/15/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *90 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-03 (OU3-16s-S-031113-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **2.4** | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **4.1** | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **5.4** | 1 | 3/14/2013 | 3/14/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **7.2** | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-03 (OU3-16s-S-031113-Q1 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **1.5** | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **32** | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *105 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-04 (OU3-10M2-M-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **2.0** | 1 | 3/14/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **5.4** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **9.8** | 1 | 3/14/2013 | 3/15/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **7.3** | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-04 (OU3-10M2-M-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **1.7** | 1 | 3/14/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **36** | 1 | 3/14/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *106 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *101 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-05 (OU3-10s-S-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **3.1** | 1 | 3/14/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **0.76** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **1.1** | 1 | 3/14/2013 | 3/15/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **0.84** | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-05 (OU3-10s-S-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **3.8** | 1 | 3/14/2013 | 3/15/2013 | |
| **Trichlorofluoromethane** | EPA 8260B | 13C0558 | 0.50 | **0.51** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *100 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-06 (OU3-10s-S-031113-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0501 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| Chlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0501 | 0.50 | **3.5** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0501 | 0.50 | **0.84** | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0501 | 0.50 | **1.0** | 1 | 3/13/2013 | 3/13/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0501 | 0.50 | **0.99** | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-06 (OU3-10s-S-031113-Q1 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0501 | 0.50 | **4.1** | 1 | 3/13/2013 | 3/13/2013 | |
| **Trichlorofluoromethane** | EPA 8260B | 13C0501 | 0.50 | **0.65** | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-07 (GW-EB5-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0501 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0501 | 0.50 | **3.5** | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| Chlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0501 | 0.50 | **2.2** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0501 | 0.50 | **3.9** | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-07 (GW-EB5-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

**TestAmerica Phoenix**

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-08 (GW-R1-1-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0501 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0501 | 0.50 | **3.5** | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| Chlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0501 | 0.50 | **2.2** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0501 | 0.50 | **3.8** | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-08 (GW-R1-1-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-09 (GW-EB6-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0501 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0501 | 0.50 | **3.1** | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| Chlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Chloroform** | EPA 8260B | 13C0501 | 0.50 | **1.8** | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0501 | 0.50 | **3.7** | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-09 (GW-EB6-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-10 (GW-L1-5-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0501 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon disulfide | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| Chlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroform | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-10 (GW-L1-5-031113 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0501 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0501 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Styrene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0501 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0501 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0501 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-01 (EW-21-S-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.03 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *32 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *86 %* | | | | |
| **Sample ID: PWC0676-02 (OU3-16s-S-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0527 | 1.0 | **2.0** | 1.09 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *30 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC0676-03 (OU3-16s-S-031113-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0527 | 1.0 | **1.9** | 1 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC0676-04 (OU3-10M2-M-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0527 | 1.0 | **2.8** | 1.06 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *32 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *85 %* | | | | |
| **Sample ID: PWC0676-05 (OU3-10s-S-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.06 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC0676-06 (OU3-10s-S-031113-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.06 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *78 %* | | | | |
| **Sample ID: PWC0676-07 (GW-EB5-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.2 | ND | 1.22 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *32 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *78 %* | | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0676-08 (GW-R1-1-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.0 | ND | 1.01 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *28 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *76 %* | | | | |
| **Sample ID: PWC0676-09 (GW-EB6-031113 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0527 | 1.2 | ND | 1.16 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *6 %* | | | | *S7* |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *13 %* | | | | *S7* |
| **Sample ID: PWC0676-09RE1 (GW-EB6-031113 - Water)** | | | | | | | | **H4** |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0862 | 1.0 | ND | 1.09 | 3/21/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *72 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *104 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0485-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0485-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0485-BS1)** | | | | | | | | | | |
| Acetone | 40.8 | 20 | ug/l | 25.0 | | 163 | 38-150 | | | *L3* |
| Benzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Bromobenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Bromochloromethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Bromodichloromethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | | 114 | 69-129 | | | |
| Bromomethane | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 57-138 | | | |
| 2-Butanone (MEK) | 33.2 | 5.0 | ug/l | 25.0 | | 133 | 53-150 | | | |
| n-Butylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| tert-Butylbenzene | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | | | |
| Carbon disulfide | 26.2 | 1.0 | ug/l | 25.0 | | 105 | 64-145 | | | |
| Carbon tetrachloride | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-143 | | | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Chloroethane | 28.2 | 1.0 | ug/l | 25.0 | | 113 | 66-131 | | | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Chloromethane | 27.3 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | | | |
| 2-Chlorotoluene | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| 4-Chlorotoluene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Dibromochloromethane | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 46-144 | | | |
| 1,1-Dichloroethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,2-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 66-139 | | | |
| 1,1-Dichloroethene | 31.8 | 0.50 | ug/l | 25.0 | | 127 | 63-131 | | | |
| cis-1,2-Dichloroethene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| trans-1,2-Dichloroethene | 29.5 | 0.50 | ug/l | 25.0 | | 118 | 69-127 | | | |
| 1,2-Dichloropropane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,3-Dichloropropane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 2,2-Dichloropropane | 30.5 | 1.0 | ug/l | 25.0 | | 122 | 69-139 | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0485-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| cis-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| trans-1,3-Dichloropropene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Ethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Hexachlorobutadiene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 76-145 | | | |
| 2-Hexanone | 31.6 | 2.5 | ug/l | 25.0 | | 126 | 55-150 | | | |
| Iodomethane | 28.2 | 2.5 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Isopropylbenzene | 32.9 | 0.50 | ug/l | 25.0 | | 132 | 88-141 | | | |
| p-Isopropyltoluene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Methylene Chloride | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 78-143 | | | |
| n-Propylbenzene | 30.8 | 0.50 | ug/l | 25.0 | | 123 | 70-130 | | | |
| Styrene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Tetrachloroethene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Toluene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 80-137 | | | |
| 1,1,1-Trichloroethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | | | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | | 130 | 69-150 | | | |
| 1,2,3-Trichloropropane | 27.9 | 2.0 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Vinyl Acetate | 40.1 | 2.0 | ug/l | 25.0 | | 160 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 29.3 | 0.50 | ug/l | 25.0 | | 117 | 65-137 | | | |
| Xylenes, Total | 56.0 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | | | |
| Freon 113 | 28.9 | 2.0 | ug/l | 25.0 | | 116 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0485-BSD1)** | | | | | | | | | | |
| Acetone | 30.7 | 20 | ug/l | 25.0 | | 123 | 38-150 | 28 | 35 | |
| Benzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 5 | 20 | |
| Bromobenzene | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Bromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 4 | 20 | |
| Bromoform | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 69-129 | 7 | 20 | |
| Bromomethane | 25.1 | 1.0 | ug/l | 25.0 | | 101 | 57-138 | 7 | 20 | |
| 2-Butanone (MEK) | 27.1 | 5.0 | ug/l | 25.0 | | 109 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 1 | 20 | |
| sec-Butylbenzene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 0.8 | 20 | |
| tert-Butylbenzene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | 1 | 20 | |
| Carbon disulfide | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 64-145 | 7 | 33 | |
| Carbon tetrachloride | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-143 | 5 | 20 | |
| Chlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.2 | 20 | |
| Chloroethane | 27.0 | 1.0 | ug/l | 25.0 | | 108 | 66-131 | 4 | 20 | |
| Chloroform | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 4 | 20 | |
| Chloromethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 6 | 20 | |
| 2-Chlorotoluene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 3 | 20 | |
| 4-Chlorotoluene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 23.0 | 5.0 | ug/l | 25.0 | | 92 | 63-146 | 17 | 22 | |
| 1,2-Dibromoethane (EDB) | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 5 | 20 | |
| Dibromomethane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 7 | 20 | |
| 1,2-Dichlorobenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 2 | 20 | |
| 1,4-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 0.8 | 20 | |
| Dichlorodifluoromethane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 4 | 20 | |
| 1,2-Dichloroethane | 26.9 | 0.50 | ug/l | 25.0 | | 107 | 66-139 | 5 | 20 | |
| 1,1-Dichloroethene | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 63-131 | 7 | 22 | |
| cis-1,2-Dichloroethene | 27.1 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 4 | 20 | |
| trans-1,2-Dichloroethene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 69-127 | 5 | 20 | |
| 1,2-Dichloropropane | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 1,3-Dichloropropane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| 2,2-Dichloropropane | 28.4 | 1.0 | ug/l | 25.0 | | 114 | 69-139 | 7 | 20 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0485-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| trans-1,3-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 4 | 20 | |
| Ethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Hexachlorobutadiene | 26.2 | 1.0 | ug/l | 25.0 | | 105 | 76-145 | 0.7 | 20 | |
| 2-Hexanone | 28.4 | 2.5 | ug/l | 25.0 | | 113 | 55-150 | 11 | 35 | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | 5 | 20 | |
| Isopropylbenzene | 32.4 | 0.50 | ug/l | 25.0 | | 130 | 88-141 | 2 | 20 | |
| p-Isopropyltoluene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 0.6 | 20 | |
| Methylene Chloride | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 63-128 | 5 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 22.9 | 5.0 | ug/l | 25.0 | | 92 | 64-142 | 14 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 5 | 20 | |
| Naphthalene | 23.7 | 5.0 | ug/l | 25.0 | | 95 | 78-143 | 13 | 20 | |
| n-Propylbenzene | 30.8 | 0.50 | ug/l | 25.0 | | 123 | 70-130 | 0.03 | 20 | |
| Styrene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 0.04 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 0.4 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 9 | 20 | |
| Tetrachloroethene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 1 | 20 | |
| Toluene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 4 | 20 | |
| 1,2,3-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 79-139 | 7 | 20 | |
| 1,2,4-Trichlorobenzene | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 80-137 | 3 | 20 | |
| 1,1,1-Trichloroethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 71-131 | 4 | 20 | |
| 1,1,2-Trichloroethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 4 | 20 | |
| Trichloroethene | 28.1 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | 5 | 22 | |
| 1,2,3-Trichloropropane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 2 | 20 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 1 | 20 | |
| Vinyl Acetate | 35.5 | 2.0 | ug/l | 25.0 | | 142 | 67-148 | 12 | 22 | *N1a* |
| Vinyl chloride | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 65-137 | 5 | 20 | |
| Xylenes, Total | 55.8 | 1.0 | ug/l | 50.0 | | 112 | 70-130 | 0.3 | 20 | |
| Freon 113 | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 65-139 | 5 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0485-MS1)** | | | | | **Source: PWC0592-06** | | | | | |
| Acetone | 15.5 | 20 | ug/l | 25.0 | ND | 62 | 29-139 | | | |
| Benzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 68-131 | | | |
| Bromobenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Bromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 64-132 | | | |
| Bromodichloromethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-138 | | | |
| Bromoform | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 60-128 | | | |
| Bromomethane | 24.1 | 1.0 | ug/l | 25.0 | ND | 96 | 47-144 | | | |
| 2-Butanone (MEK) | 22.2 | 5.0 | ug/l | 25.0 | ND | 89 | 31-143 | | | |
| n-Butylbenzene | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 69-140 | | | |
| sec-Butylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 72-136 | | | |
| tert-Butylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 74-135 | | | |
| Carbon disulfide | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 45-150 | | | |
| Carbon tetrachloride | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 65-147 | | | |
| Chlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| Chloroethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 57-139 | | | |
| Chloroform | 26.8 | 0.50 | ug/l | 25.0 | 1.37 | 102 | 63-131 | | | |
| Chloromethane | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 47-134 | | | |
| 2-Chlorotoluene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 71-131 | | | |
| 4-Chlorotoluene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromochloromethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| Dibromomethane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| Dichlorodifluoromethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 40-148 | | | |
| 1,1-Dichloroethane | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 62-130 | | | |
| 1,2-Dichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 57-137 | | | |
| cis-1,2-Dichloroethene | 27.9 | 0.50 | ug/l | 25.0 | 0.840 | 108 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | | | |
| 1,3-Dichloropropane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | | | |
| 2,2-Dichloropropane | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0485-MS1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,1-Dichloropropene | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| trans-1,3-Dichloropropene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 58-136 | | | |
| Ethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | | | |
| Hexachlorobutadiene | 27.3 | 1.0 | ug/l | 25.0 | ND | 109 | 69-150 | | | |
| 2-Hexanone | 25.1 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | | | |
| Iodomethane | 26.4 | 2.5 | ug/l | 25.0 | ND | 106 | 53-150 | | | |
| Isopropylbenzene | 31.9 | 0.50 | ug/l | 25.0 | ND | 127 | 80-146 | | | |
| p-Isopropyltoluene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-133 | | | |
| Methylene Chloride | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 67-138 | | | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | ND | 104 | 67-146 | | | |
| n-Propylbenzene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | | | |
| Tetrachloroethene | 29.2 | 0.50 | ug/l | 25.0 | 0.750 | 114 | 67-131 | | | |
| Toluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.2 | 1.0 | ug/l | 25.0 | ND | 105 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 33.8 | 0.50 | ug/l | 25.0 | 5.57 | 113 | 66-132 | | | |
| Trichlorofluoromethane | 30.3 | 0.50 | ug/l | 25.0 | ND | 121 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 66-137 | | | |
| Vinyl Acetate | 36.0 | 2.0 | ug/l | 25.0 | ND | 144 | 47-150 | | | *N1a* |
| Vinyl chloride | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | | | |
| Xylenes, Total | 55.5 | 1.0 | ug/l | 50.0 | ND | 111 | 68-131 | | | |
| Freon 113 | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0485-MSD1)** | | | | | **Source: PWC0592-06** | | | | | |
| Acetone | 17.1 | 20 | ug/l | 25.0 | ND | 68 | 29-139 | 10 | 35 | |
| Benzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 68-131 | 0.9 | 32 | |
| Bromobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 0.2 | 28 | |
| Bromochloromethane | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 64-132 | 1 | 35 | |
| Bromodichloromethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-138 | 0.7 | 31 | |
| Bromoform | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 60-128 | 0.8 | 31 | |
| Bromomethane | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 47-144 | 3 | 35 | |
| 2-Butanone (MEK) | 23.1 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 4 | 35 | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 72-136 | 2 | 33 | |
| tert-Butylbenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 119 | 74-135 | 0.6 | 32 | |
| Carbon disulfide | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 45-150 | 2 | 35 | |
| Carbon tetrachloride | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-147 | 0.4 | 35 | |
| Chlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 0.07 | 30 | |
| Chloroethane | 27.4 | 1.0 | ug/l | 25.0 | ND | 109 | 57-139 | 5 | 35 | |
| Chloroform | 27.4 | 0.50 | ug/l | 25.0 | 1.37 | 104 | 63-131 | 2 | 33 | |
| Chloromethane | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 47-134 | 3 | 35 | |
| 2-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 71-131 | 3 | 29 | |
| 4-Chlorotoluene | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 65-134 | 0.7 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.7 | 5.0 | ug/l | 25.0 | ND | 103 | 53-145 | 0.9 | 35 | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 0.1 | 33 | |
| Dibromomethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 66-136 | 3 | 35 | |
| 1,2-Dichlorobenzene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | 1 | 27 | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 3 | 28 | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 40-148 | 0.2 | 35 | |
| 1,1-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 62-130 | 3 | 34 | |
| 1,2-Dichloroethane | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 54-147 | 2 | 35 | |
| 1,1-Dichloroethene | 30.4 | 0.50 | ug/l | 25.0 | ND | 122 | 57-137 | 2 | 35 | |
| cis-1,2-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | 0.840 | 110 | 65-127 | 2 | 34 | |
| trans-1,2-Dichloroethene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 62-131 | 3 | 35 | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | 0.4 | 32 | |
| 1,3-Dichloropropane | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 68-129 | 0.5 | 33 | |
| 2,2-Dichloropropane | 29.1 | 1.0 | ug/l | 25.0 | ND | 117 | 60-146 | 5 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0485 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0485-MSD1)** | | | | | **Source: PWC0592-06** | | | | | |
| 1,1-Dichloropropene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 64-134 | 2 | 34 | |
| cis-1,3-Dichloropropene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 1 | 35 | |
| trans-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 58-136 | 2 | 35 | |
| Ethylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | 0.3 | 32 | |
| Hexachlorobutadiene | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 69-150 | 1 | 32 | |
| 2-Hexanone | 24.9 | 2.5 | ug/l | 25.0 | ND | 100 | 40-142 | 0.8 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | ND | 109 | 53-150 | 3 | 35 | |
| Isopropylbenzene | 32.6 | 0.50 | ug/l | 25.0 | ND | 130 | 80-146 | 2 | 32 | |
| p-Isopropyltoluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-133 | 2 | 32 | |
| Methylene Chloride | 24.4 | 1.0 | ug/l | 25.0 | ND | 97 | 55-133 | 2 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 52-143 | 1 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | 3 | 21 | |
| Naphthalene | 27.0 | 5.0 | ug/l | 25.0 | ND | 108 | 67-146 | 4 | 29 | |
| n-Propylbenzene | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 74-140 | 2 | 32 | |
| Styrene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 43-144 | 2 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 2 | 30 | |
| 1,1,2,2-Tetrachloroethane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-137 | 2 | 32 | |
| Tetrachloroethene | 29.0 | 0.50 | ug/l | 25.0 | 0.750 | 113 | 67-131 | 0.7 | 31 | |
| Toluene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 65-138 | 1 | 33 | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 74-139 | 3 | 26 | |
| 1,2,4-Trichlorobenzene | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 74-138 | 3 | 26 | |
| 1,1,1-Trichloroethane | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 64-138 | 4 | 35 | |
| 1,1,2-Trichloroethane | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | 0.7 | 35 | |
| Trichloroethene | 34.2 | 0.50 | ug/l | 25.0 | 5.57 | 115 | 66-132 | 1 | 29 | |
| Trichlorofluoromethane | 31.6 | 0.50 | ug/l | 25.0 | ND | 126 | 62-150 | 4 | 35 | |
| 1,2,3-Trichloropropane | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 68-130 | 0.5 | 32 | |
| 1,2,4-Trimethylbenzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | 2 | 31 | |
| 1,3,5-Trimethylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | 2 | 30 | |
| Vinyl Acetate | 35.9 | 2.0 | ug/l | 25.0 | ND | 144 | 47-150 | 0.4 | 35 | *N1a* |
| Vinyl chloride | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 55-146 | 2 | 35 | |
| Xylenes, Total | 56.5 | 1.0 | ug/l | 50.0 | ND | 113 | 68-131 | 2 | 31 | |
| Freon 113 | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 52-149 | 4 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.6* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0501-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | *V1* |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0501-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.5* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0501-BS1)** | | | | | | | | | | |
| Acetone | 27.1 | 20 | ug/l | 25.0 | | 108 | 38-150 | | | |
| Benzene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Bromobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Bromochloromethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Bromodichloromethane | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Bromoform | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 69-129 | | | |
| Bromomethane | 23.1 | 1.0 | ug/l | 25.0 | | 92 | 57-138 | | | |
| 2-Butanone (MEK) | 23.7 | 5.0 | ug/l | 25.0 | | 95 | 53-150 | | | |
| n-Butylbenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| sec-Butylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| tert-Butylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Carbon disulfide | 21.6 | 1.0 | ug/l | 25.0 | | 86 | 64-145 | | | |
| Carbon tetrachloride | 31.1 | 0.50 | ug/l | 25.0 | | 124 | 70-143 | | | *V1* |
| Chlorobenzene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Chloroethane | 24.4 | 1.0 | ug/l | 25.0 | | 97 | 66-131 | | | |
| Chloroform | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Chloromethane | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 56-129 | | | |
| 2-Chlorotoluene | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 4-Chlorotoluene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Dibromochloromethane | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 33.2 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Dibromomethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,3-Dichlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,4-Dichlorobenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Dichlorodifluoromethane | 22.9 | 0.50 | ug/l | 25.0 | | 91 | 46-144 | | | |
| 1,1-Dichloroethane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,2-Dichloroethane | 31.1 | 0.50 | ug/l | 25.0 | | 124 | 66-139 | | | |
| 1,1-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 63-131 | | | |
| cis-1,2-Dichloroethene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 69-127 | | | |
| 1,2-Dichloropropane | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| 1,3-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 2,2-Dichloropropane | 28.9 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0501-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| cis-1,3-Dichloropropene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| trans-1,3-Dichloropropene | 28.1 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| Ethylbenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Hexachlorobutadiene | 24.6 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 55-150 | | | |
| Iodomethane | 26.4 | 2.5 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Isopropylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 88-141 | | | |
| p-Isopropyltoluene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Methylene Chloride | 22.1 | 1.0 | ug/l | 25.0 | | 88 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Naphthalene | 24.9 | 5.0 | ug/l | 25.0 | | 100 | 78-143 | | | |
| n-Propylbenzene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Styrene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 23.3 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Tetrachloroethene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Toluene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 22.2 | 1.0 | ug/l | 25.0 | | 89 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 80-137 | | | |
| 1,1,1-Trichloroethane | 30.0 | 0.50 | ug/l | 25.0 | | 120 | 71-131 | | | |
| 1,1,2-Trichloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Trichloroethene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Trichlorofluoromethane | 32.4 | 0.50 | ug/l | 25.0 | | 129 | 69-150 | | | |
| 1,2,3-Trichloropropane | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Vinyl Acetate | 41.4 | 2.0 | ug/l | 25.0 | | 165 | 67-148 | | | *L3* |
| Vinyl chloride | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 65-137 | | | |
| Xylenes, Total | 50.8 | 1.0 | ug/l | 50.0 | | 102 | 70-130 | | | |
| Freon 113 | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0501-BSD1)** | | | | | | | | | | |
| Acetone | 31.4 | 20 | ug/l | 25.0 | | 126 | 38-150 | 15 | 35 | |
| Benzene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 5 | 20 | |
| Bromobenzene | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 4 | 20 | |
| Bromochloromethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | 3 | 20 | |
| Bromoform | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 69-129 | 6 | 20 | |
| Bromomethane | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 57-138 | 1 | 20 | |
| 2-Butanone (MEK) | 26.4 | 5.0 | ug/l | 25.0 | | 105 | 53-150 | 11 | 35 | |
| n-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 2 | 20 | |
| tert-Butylbenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| Carbon disulfide | 21.9 | 1.0 | ug/l | 25.0 | | 87 | 64-145 | 1 | 33 | |
| Carbon tetrachloride | 32.2 | 0.50 | ug/l | 25.0 | | 129 | 70-143 | 4 | 20 | *V1* |
| Chlorobenzene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Chloroethane | 24.4 | 1.0 | ug/l | 25.0 | | 97 | 66-131 | 0.04 | 20 | |
| Chloroform | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| Chloromethane | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 56-129 | 4 | 20 | |
| 2-Chlorotoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| 4-Chlorotoluene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 3 | 20 | |
| Dibromochloromethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | | 145 | 63-146 | 9 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 6 | 20 | |
| Dibromomethane | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 2 | 20 | |
| Dichlorodifluoromethane | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 46-144 | 4 | 23 | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 2 | 20 | |
| 1,2-Dichloroethane | 32.1 | 0.50 | ug/l | 25.0 | | 128 | 66-139 | 3 | 20 | |
| 1,1-Dichloroethene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 63-131 | 0.2 | 22 | |
| cis-1,2-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 69-127 | 4 | 20 | |
| 1,2-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 7 | 20 | |
| 1,3-Dichloropropane | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| 2,2-Dichloropropane | 29.1 | 1.0 | ug/l | 25.0 | | 116 | 69-139 | 0.5 | 20 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0501-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 5 | 20 | |
| trans-1,3-Dichloropropene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 8 | 20 | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 2 | 20 | |
| Hexachlorobutadiene | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 76-145 | 1 | 20 | |
| 2-Hexanone | 29.8 | 2.5 | ug/l | 25.0 | | 119 | 55-150 | 9 | 35 | |
| Iodomethane | 27.1 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| Isopropylbenzene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 88-141 | 2 | 20 | |
| p-Isopropyltoluene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 1 | 20 | |
| Methylene Chloride | 22.5 | 1.0 | ug/l | 25.0 | | 90 | 63-128 | 2 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 32.2 | 5.0 | ug/l | 25.0 | | 129 | 64-142 | 11 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 4 | 20 | |
| Naphthalene | 25.9 | 5.0 | ug/l | 25.0 | | 103 | 78-143 | 4 | 20 | |
| n-Propylbenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 0.9 | 20 | |
| Styrene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 4 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 5 | 20 | |
| Tetrachloroethene | 25.9 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| Toluene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 4 | 20 | |
| 1,2,3-Trichlorobenzene | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 79-139 | 0.6 | 20 | |
| 1,2,4-Trichlorobenzene | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 80-137 | 1 | 20 | |
| 1,1,1-Trichloroethane | 30.2 | 0.50 | ug/l | 25.0 | | 121 | 71-131 | 0.4 | 20 | |
| 1,1,2-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 4 | 20 | |
| Trichloroethene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 1 | 20 | |
| Trichlorofluoromethane | 32.3 | 0.50 | ug/l | 25.0 | | 129 | 69-150 | 0.3 | 22 | |
| 1,2,3-Trichloropropane | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| 1,3,5-Trimethylbenzene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 3 | 20 | |
| Vinyl Acetate | 44.3 | 2.0 | ug/l | 25.0 | | 177 | 67-148 | 7 | 22 | *L3* |
| Vinyl chloride | 25.9 | 0.50 | ug/l | 25.0 | | 103 | 65-137 | 3 | 20 | |
| Xylenes, Total | 51.8 | 1.0 | ug/l | 50.0 | | 104 | 70-130 | 2 | 20 | |
| Freon 113 | 26.1 | 2.0 | ug/l | 25.0 | | 105 | 65-139 | 0.8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.1* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0501-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| Acetone | 30.7 | 20 | ug/l | 25.0 | ND | 123 | 29-139 | | | |
| Benzene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Bromochloromethane | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 64-132 | | | |
| Bromodichloromethane | 30.6 | 0.50 | ug/l | 25.0 | ND | 122 | 63-138 | | | |
| Bromoform | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 60-128 | | | |
| Bromomethane | 24.6 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | | | |
| 2-Butanone (MEK) | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 31-143 | | | |
| n-Butylbenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | | | |
| sec-Butylbenzene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 72-136 | | | |
| tert-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-135 | | | |
| Carbon disulfide | 23.1 | 1.0 | ug/l | 25.0 | ND | 93 | 45-150 | | | |
| Carbon tetrachloride | 32.6 | 0.50 | ug/l | 25.0 | ND | 131 | 65-147 | | | *V1* |
| Chlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Chloroethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 57-139 | | | |
| Chloroform | 29.4 | 0.50 | ug/l | 25.0 | 1.84 | 110 | 63-131 | | | |
| Chloromethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-134 | | | |
| 2-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 71-131 | | | |
| 4-Chlorotoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | | | |
| Dibromochloromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 37.9 | 5.0 | ug/l | 25.0 | ND | 152 | 53-145 | | | *V1, M1* |
| 1,2-Dibromoethane (EDB) | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromomethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 66-136 | | | |
| 1,2-Dichlorobenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 40-148 | | | |
| 1,1-Dichloroethane | 33.8 | 0.50 | ug/l | 25.0 | 6.68 | 109 | 62-130 | | | |
| 1,2-Dichloroethane | 34.0 | 0.50 | ug/l | 25.0 | ND | 136 | 54-147 | | | |
| 1,1-Dichloroethene | 39.2 | 0.50 | ug/l | 25.0 | 10.4 | 115 | 57-137 | | | |
| cis-1,2-Dichloroethene | 42.0 | 0.50 | ug/l | 25.0 | 14.7 | 109 | 65-127 | | | |
| trans-1,2-Dichloroethene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 62-131 | | | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | | | |
| 1,3-Dichloropropane | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 68-129 | | | |
| 2,2-Dichloropropane | 32.6 | 1.0 | ug/l | 25.0 | ND | 130 | 60-146 | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0501-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,1-Dichloropropene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| trans-1,3-Dichloropropene | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 58-136 | | | |
| Ethylbenzene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 74-134 | | | |
| Hexachlorobutadiene | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 69-150 | | | |
| 2-Hexanone | 28.2 | 2.5 | ug/l | 25.0 | ND | 113 | 40-142 | | | |
| Iodomethane | 28.0 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | | | |
| Isopropylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 80-146 | | | |
| p-Isopropyltoluene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 70-133 | | | |
| Methylene Chloride | 23.3 | 1.0 | ug/l | 25.0 | ND | 93 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 32.2 | 5.0 | ug/l | 25.0 | ND | 129 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 67-138 | | | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 67-146 | | | |
| n-Propylbenzene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 74-140 | | | |
| Styrene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | | | |
| Tetrachloroethene | 31.5 | 0.50 | ug/l | 25.0 | 4.17 | 109 | 67-131 | | | |
| Toluene | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 74-138 | | | |
| 1,1,1-Trichloroethane | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-132 | | | |
| Trichloroethene | 122 | 0.50 | ug/l | 25.0 | 92.3 | 118 | 66-132 | | | |
| Trichlorofluoromethane | 35.6 | 0.50 | ug/l | 25.0 | ND | 142 | 62-150 | | | |
| 1,2,3-Trichloropropane | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 66-137 | | | |
| Vinyl Acetate | 41.6 | 2.0 | ug/l | 25.0 | ND | 167 | 47-150 | | | *N1a* |
| Vinyl chloride | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 55-146 | | | |
| Xylenes, Total | 54.4 | 1.0 | ug/l | 50.0 | ND | 109 | 68-131 | | | |
| Freon 113 | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *24.8* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0501-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| Acetone | 29.6 | 20 | ug/l | 25.0 | ND | 118 | 29-139 | 4 | 35 | |
| Benzene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-131 | 0.8 | 32 | |
| Bromobenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 70-130 | 0.6 | 28 | |
| Bromochloromethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 64-132 | 0.2 | 35 | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | 3 | 31 | |
| Bromoform | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 60-128 | 1 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 0.4 | 35 | |
| 2-Butanone (MEK) | 28.6 | 5.0 | ug/l | 25.0 | ND | 114 | 31-143 | 3 | 35 | |
| n-Butylbenzene | 29.2 | 0.50 | ug/l | 25.0 | ND | 117 | 69-140 | 0.2 | 32 | |
| sec-Butylbenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 72-136 | 0.6 | 33 | |
| tert-Butylbenzene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 74-135 | 0.8 | 32 | |
| Carbon disulfide | 22.9 | 1.0 | ug/l | 25.0 | ND | 92 | 45-150 | 1 | 35 | |
| Carbon tetrachloride | 32.8 | 0.50 | ug/l | 25.0 | ND | 131 | 65-147 | 0.4 | 35 | *V1* |
| Chlorobenzene | 26.1 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 2 | 30 | |
| Chloroethane | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 57-139 | 2 | 35 | |
| Chloroform | 28.2 | 0.50 | ug/l | 25.0 | 1.84 | 105 | 63-131 | 4 | 33 | |
| Chloromethane | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 47-134 | 2 | 35 | |
| 2-Chlorotoluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 71-131 | 2 | 29 | |
| 4-Chlorotoluene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 1 | 28 | |
| Dibromochloromethane | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 65-134 | 1 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.5 | 5.0 | ug/l | 25.0 | ND | 146 | 53-145 | 4 | 35 | *V1, M1* |
| 1,2-Dibromoethane (EDB) | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-130 | 3 | 33 | |
| Dibromomethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 66-136 | 2 | 35 | |
| 1,2-Dichlorobenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | 1 | 27 | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | 3 | 28 | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 70-130 | 0.3 | 26 | |
| Dichlorodifluoromethane | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 40-148 | 2 | 35 | |
| 1,1-Dichloroethane | 32.3 | 0.50 | ug/l | 25.0 | 6.68 | 103 | 62-130 | 5 | 34 | |
| 1,2-Dichloroethane | 33.0 | 0.50 | ug/l | 25.0 | ND | 132 | 54-147 | 3 | 35 | |
| 1,1-Dichloroethene | 38.6 | 0.50 | ug/l | 25.0 | 10.4 | 113 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 40.8 | 0.50 | ug/l | 25.0 | 14.7 | 105 | 65-127 | 3 | 34 | |
| trans-1,2-Dichloroethene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 62-131 | 0.3 | 35 | |
| 1,2-Dichloropropane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | 0.1 | 32 | |
| 1,3-Dichloropropane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 68-129 | 3 | 33 | |
| 2,2-Dichloropropane | 31.0 | 1.0 | ug/l | 25.0 | ND | 124 | 60-146 | 5 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0501 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0501-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 64-134 | 3 | 34 | |
| cis-1,3-Dichloropropene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 0.7 | 35 | |
| trans-1,3-Dichloropropene | 30.2 | 0.50 | ug/l | 25.0 | ND | 121 | 58-136 | 0.9 | 35 | |
| Ethylbenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 74-134 | 3 | 32 | |
| Hexachlorobutadiene | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | 4 | 32 | |
| 2-Hexanone | 28.8 | 2.5 | ug/l | 25.0 | ND | 115 | 40-142 | 2 | 35 | |
| Iodomethane | 27.2 | 2.5 | ug/l | 25.0 | ND | 109 | 53-150 | 3 | 35 | |
| Isopropylbenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 119 | 80-146 | 0.5 | 32 | |
| p-Isopropyltoluene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 70-133 | 1 | 32 | |
| Methylene Chloride | 21.9 | 1.0 | ug/l | 25.0 | ND | 88 | 55-133 | 6 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 32.3 | 5.0 | ug/l | 25.0 | ND | 129 | 52-143 | 0.09 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 67-138 | 2 | 21 | |
| Naphthalene | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 67-146 | 0.2 | 29 | |
| n-Propylbenzene | 28.6 | 0.50 | ug/l | 25.0 | ND | 114 | 74-140 | 0.5 | 32 | |
| Styrene | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 43-144 | 4 | 35 | |
| 1,1,1,2-Tetrachloroethane | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 0.04 | 32 | |
| Tetrachloroethene | 30.0 | 0.50 | ug/l | 25.0 | 4.17 | 103 | 67-131 | 5 | 31 | |
| Toluene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 65-138 | 1 | 33 | |
| 1,2,3-Trichlorobenzene | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 74-139 | 3 | 26 | |
| 1,2,4-Trichlorobenzene | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 74-138 | 3 | 26 | |
| 1,1,1-Trichloroethane | 31.0 | 0.50 | ug/l | 25.0 | ND | 124 | 64-138 | 1 | 35 | |
| 1,1,2-Trichloroethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-132 | 1 | 35 | |
| Trichloroethene | 116 | 0.50 | ug/l | 25.0 | 92.3 | 96 | 66-132 | 5 | 29 | |
| Trichlorofluoromethane | 34.2 | 0.50 | ug/l | 25.0 | ND | 137 | 62-150 | 4 | 35 | |
| 1,2,3-Trichloropropane | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 68-130 | 7 | 32 | |
| 1,2,4-Trimethylbenzene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | 1 | 31 | |
| 1,3,5-Trimethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 66-137 | 0.1 | 30 | |
| Vinyl Acetate | 40.5 | 2.0 | ug/l | 25.0 | ND | 162 | 47-150 | 3 | 35 | *N1a* |
| Vinyl chloride | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 55-146 | 3 | 35 | |
| Xylenes, Total | 52.8 | 1.0 | ug/l | 50.0 | ND | 106 | 68-131 | 3 | 31 | |
| Freon 113 | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 52-149 | 1 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| Acetone | 33.5 | 20 | ug/l | 25.0 | | 134 | 38-150 | | | |
| Benzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Bromobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromochloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | | 113 | 69-129 | | | |
| Bromomethane | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 57-138 | | | |
| 2-Butanone (MEK) | 30.0 | 5.0 | ug/l | 25.0 | | 120 | 53-150 | | | |
| n-Butylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Carbon disulfide | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 64-145 | | | |
| Carbon tetrachloride | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-143 | | | |
| Chlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 66-131 | | | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Chloromethane | 29.8 | 1.0 | ug/l | 25.0 | | 119 | 56-129 | | | |
| 2-Chlorotoluene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 4-Chlorotoluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Dibromochloromethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 33.1 | 0.50 | ug/l | 25.0 | | 132 | 46-144 | | | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 66-139 | | | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | | | |
| 1,2-Dichloropropane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 2,2-Dichloropropane | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| cis-1,3-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Ethylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 30.6 | 2.5 | ug/l | 25.0 | | 123 | 55-150 | | | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Isopropylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 88-141 | | | |
| p-Isopropyltoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Naphthalene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 78-143 | | | |
| n-Propylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Styrene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 42.8 | 2.0 | ug/l | 25.0 | | 171 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 50.2 | 1.0 | ug/l | 50.0 | | 100 | 70-130 | | | |
| Freon 113 | 22.8 | 2.0 | ug/l | 25.0 | | 91 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *107* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| Acetone | 22.4 | 20 | ug/l | 25.0 | | 90 | 38-150 | 40 | 35 | *R6* |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 11 | 20 | |
| Bromobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 13 | 20 | |
| Bromochloromethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 15 | 20 | |
| Bromodichloromethane | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 15 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 15 | 20 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 13 | 20 | |
| 2-Butanone (MEK) | 24.5 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| sec-Butylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 7 | 20 | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 7 | 20 | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 9 | 33 | |
| Carbon tetrachloride | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-143 | 8 | 20 | |
| Chlorobenzene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 10 | 20 | |
| Chloroethane | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 66-131 | 12 | 20 | |
| Chloroform | 21.0 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 14 | 20 | |
| Chloromethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | 9 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| 4-Chlorotoluene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| Dibromochloromethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 63-146 | 7 | 22 | |
| 1,2-Dibromoethane (EDB) | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 16 | 20 | |
| Dibromomethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 20 | 20 | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,3-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 10 | 20 | |
| Dichlorodifluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 12 | 20 | |
| 1,2-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 66-139 | 18 | 20 | |
| 1,1-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 63-131 | 10 | 22 | |
| cis-1,2-Dichloroethene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 14 | 20 | |
| trans-1,2-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 69-127 | 11 | 20 | |
| 1,2-Dichloropropane | 21.3 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 13 | 20 | |
| 1,3-Dichloropropane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 2,2-Dichloropropane | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 69-139 | 10 | 20 | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | | 83 | 70-130 | 7 | 20 | |
| cis-1,3-Dichloropropene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 15 | 20 | |
| trans-1,3-Dichloropropene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 16 | 20 | |
| Ethylbenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | 4 | 20 | |
| 2-Hexanone | 25.7 | 2.5 | ug/l | 25.0 | | 103 | 55-150 | 18 | 35 | |
| Iodomethane | 24.0 | 2.5 | ug/l | 25.0 | | 96 | 70-130 | 12 | 20 | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | 6 | 20 | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 6 | 20 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | | 81 | 63-128 | 14 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 64-142 | 15 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 20.9 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 19 | 20 | |
| Naphthalene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 6 | 20 | |
| Styrene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 12 | 20 | |
| 1,1,1,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 11 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 13 | 20 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 6 | 20 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 11 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 10 | 20 | |
| 1,2,4-Trichlorobenzene | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 80-137 | 8 | 20 | |
| 1,1,1-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 71-131 | 10 | 20 | |
| 1,1,2-Trichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 16 | 20 | |
| Trichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 9 | 20 | |
| Trichlorofluoromethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 69-150 | 6 | 22 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | | 145 | 67-148 | 17 | 22 | *N1a* |
| Vinyl chloride | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 65-137 | 8 | 20 | |
| Xylenes, Total | 46.3 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 8 | 20 | |
| Freon 113 | 21.1 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | 8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 21.6 | 20 | ug/l | 25.0 | ND | 86 | 29-139 | | | |
| Benzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Bromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 64-132 | | | |
| Bromodichloromethane | 27.0 | 0.50 | ug/l | 25.0 | 0.580 | 106 | 63-138 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | ND | 114 | 60-128 | | | |
| Bromomethane | 28.4 | 1.0 | ug/l | 25.0 | ND | 113 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 69-140 | | | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | | | |
| tert-Butylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-135 | | | |
| Carbon disulfide | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 45-150 | | | |
| Carbon tetrachloride | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | | | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | | | |
| Chloroethane | 28.9 | 1.0 | ug/l | 25.0 | ND | 116 | 57-139 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | 1.15 | 101 | 63-131 | | | |
| Chloromethane | 29.6 | 1.0 | ug/l | 25.0 | ND | 118 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/l | 25.0 | 1.28 | 111 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dibromomethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 40-148 | | | |
| 1,1-Dichloroethane | 32.6 | 0.50 | ug/l | 25.0 | 6.59 | 104 | 62-130 | | | |
| 1,2-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 38.8 | 0.50 | ug/l | 25.0 | 10.3 | 114 | 57-137 | | | |
| cis-1,2-Dichloroethene | 37.6 | 0.50 | ug/l | 25.0 | 11.3 | 105 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-126 | | | |
| 1,3-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-129 | | | |
| 2,2-Dichloropropane | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 60-146 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 64-134 | | | |
| cis-1,3-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 58-136 | | | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-134 | | | |
| Hexachlorobutadiene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | | | |
| 2-Hexanone | 27.5 | 2.5 | ug/l | 25.0 | ND | 110 | 40-142 | | | |
| Iodomethane | 28.6 | 2.5 | ug/l | 25.0 | ND | 114 | 53-150 | | | |
| Isopropylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 80-146 | | | |
| p-Isopropyltoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-133 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | ND | 116 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | | | |
| Naphthalene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 67-146 | | | |
| n-Propylbenzene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 63-137 | | | |
| Tetrachloroethene | 29.1 | 0.50 | ug/l | 25.0 | 2.06 | 108 | 67-131 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 107 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 75.7 | 0.50 | ug/l | 25.0 | 49.5 | 105 | 66-132 | | | |
| Trichlorofluoromethane | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 66-137 | | | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | | | *N1, N1a* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 53.8 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 24.7 | 2.0 | ug/l | 25.0 | 0.190 | 98 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 17.7 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | 20 | 35 | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | 15 | 32 | |
| Bromobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 28 | |
| Bromochloromethane | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 64-132 | 12 | 35 | |
| Bromodichloromethane | 22.8 | 0.50 | ug/l | 25.0 | 0.580 | 89 | 63-138 | 17 | 31 | |
| Bromoform | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 60-128 | 16 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 23.2 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 12 | 35 | |
| n-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 69-140 | 14 | 32 | |
| sec-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 16 | 32 | |
| Carbon disulfide | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 45-150 | 17 | 35 | |
| Carbon tetrachloride | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 65-147 | 16 | 35 | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 16 | 30 | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | 17 | 35 | |
| Chloroform | 22.6 | 0.50 | ug/l | 25.0 | 1.15 | 86 | 63-131 | 15 | 33 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 15 | 35 | |
| 2-Chlorotoluene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 15 | 29 | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-134 | 14 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.5 | 5.0 | ug/l | 25.0 | 1.28 | 97 | 53-145 | 13 | 35 | |
| 1,2-Dibromoethane (EDB) | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 14 | 33 | |
| Dibromomethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 66-136 | 14 | 35 | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 27 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 15 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 14 | 26 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | ND | 119 | 40-148 | 13 | 35 | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | 6.59 | 87 | 62-130 | 14 | 34 | |
| 1,2-Dichloroethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 54-147 | 12 | 35 | |
| 1,1-Dichloroethene | 33.3 | 0.50 | ug/l | 25.0 | 10.3 | 92 | 57-137 | 15 | 35 | |
| cis-1,2-Dichloroethene | 33.2 | 0.50 | ug/l | 25.0 | 11.3 | 87 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 62-131 | 16 | 35 | |
| 1,2-Dichloropropane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-126 | 15 | 32 | |
| 1,3-Dichloropropane | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-129 | 15 | 33 | |
| 2,2-Dichloropropane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 60-146 | 11 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-134 | 17 | 34 | |
| cis-1,3-Dichloropropene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 63-135 | 14 | 35 | |
| trans-1,3-Dichloropropene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 58-136 | 15 | 35 | |
| Ethylbenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 74-134 | 15 | 32 | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | 13 | 32 | |
| 2-Hexanone | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 40-142 | 14 | 35 | |
| Iodomethane | 24.7 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 15 | 35 | |
| Isopropylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 16 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 14 | 32 | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | ND | 82 | 55-133 | 13 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | 15 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 67-138 | 13 | 21 | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 7 | 29 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | 16 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 17 | 35 | |
| 1,1,1,2-Tetrachloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 16 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 14 | 32 | |
| Tetrachloroethene | 24.7 | 0.50 | ug/l | 25.0 | 2.06 | 91 | 67-131 | 16 | 31 | |
| Toluene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | 17 | 33 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 74-139 | 10 | 26 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 74-138 | 12 | 26 | |
| 1,1,1-Trichloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 64-138 | 16 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 63-132 | 15 | 35 | |
| Trichloroethene | 67.5 | 0.50 | ug/l | 25.0 | 49.5 | 72 | 66-132 | 12 | 29 | |
| Trichlorofluoromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 62-150 | 14 | 35 | |
| 1,2,3-Trichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98 | 68-130 | 15 | 32 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 15 | 31 | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | ND | 145 | 47-150 | 16 | 35 | *N1a* |
| Vinyl chloride | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 15 | 35 | |
| Xylenes, Total | 46.0 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | 15 | 31 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | 0.190 | 82 | 52-149 | 17 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0599-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0599-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Analyzed: 03/15/2013 (13C0599-BS1)** | | | | | | | | | | |
| Acetone | 28.6 | 20 | ug/l | 25.0 | | 115 | 38-150 | | | |
| Benzene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| Bromobenzene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Bromochloromethane | 20.2 | 0.50 | ug/l | 25.0 | | 81 | 70-130 | | | |
| Bromodichloromethane | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 57-138 | | | |
| 2-Butanone (MEK) | 24.1 | 5.0 | ug/l | 25.0 | | 96 | 53-150 | | | |
| n-Butylbenzene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 25.1 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| tert-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Carbon disulfide | 21.9 | 1.0 | ug/l | 25.0 | | 88 | 64-145 | | | |
| Carbon tetrachloride | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-143 | | | |
| Chlorobenzene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Chloroethane | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 66-131 | | | |
| Chloroform | 22.5 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Chloromethane | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 56-129 | | | |
| 2-Chlorotoluene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 4-Chlorotoluene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Dibromochloromethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 32.7 | 5.0 | ug/l | 25.0 | | 131 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Dibromomethane | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichlorobenzene | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| Dichlorodifluoromethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 46-144 | | | |
| 1,1-Dichloroethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| 1,2-Dichloroethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 66-139 | | | |
| 1,1-Dichloroethene | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 63-131 | | | |
| cis-1,2-Dichloroethene | 22.1 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 69-127 | | | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | | | |
| 1,3-Dichloropropane | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 2,2-Dichloropropane | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 69-139 | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Analyzed: 03/15/2013 (13C0599-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.1 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | | | |
| cis-1,3-Dichloropropene | 23.9 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| trans-1,3-Dichloropropene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Ethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| Hexachlorobutadiene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | | | |
| 2-Hexanone | 29.2 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | | | |
| Iodomethane | 26.3 | 2.5 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | | | |
| p-Isopropyltoluene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Methylene Chloride | 19.8 | 1.0 | ug/l | 25.0 | | 79 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Naphthalene | 24.2 | 5.0 | ug/l | 25.0 | | 97 | 78-143 | | | |
| n-Propylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Styrene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 21.8 | 1.0 | ug/l | 25.0 | | 87 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 23.8 | 1.0 | ug/l | 25.0 | | 95 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 71-131 | | | |
| 1,1,2-Trichloroethane | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Trichloroethene | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 24.3 | 2.0 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Vinyl Acetate | 42.9 | 2.0 | ug/l | 25.0 | | 172 | 67-148 | | | *L3* |
| Vinyl chloride | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 65-137 | | | |
| Xylenes, Total | 45.6 | 1.0 | ug/l | 50.0 | | 91 | 70-130 | | | |
| Freon 113 | 20.4 | 2.0 | ug/l | 25.0 | | 81 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/15/2013 (13C0599-BSD1)** | | | | | | | | | | |
| Acetone | 25.4 | 20 | ug/l | 25.0 | | 101 | 38-150 | 12 | 35 | |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 2 | 20 | |
| Bromobenzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 5 | 20 | |
| Bromochloromethane | 20.2 | 0.50 | ug/l | 25.0 | | 81 | 70-130 | 0.1 | 20 | |
| Bromodichloromethane | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 0.2 | 20 | |
| Bromomethane | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 57-138 | 6 | 20 | |
| 2-Butanone (MEK) | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 53-150 | 4 | 35 | |
| n-Butylbenzene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 2 | 20 | |
| sec-Butylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 4 | 20 | |
| Carbon disulfide | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 64-145 | 1 | 33 | |
| Carbon tetrachloride | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-143 | 8 | 20 | |
| Chlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 3 | 20 | |
| Chloroethane | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 66-131 | 7 | 20 | |
| Chloroform | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 7 | 20 | |
| 2-Chlorotoluene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| 4-Chlorotoluene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 3 | 20 | |
| Dibromochloromethane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 5 | 20 | |
| 1,2-Dibromo-3-chloropropane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | 2 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 2 | 20 | |
| Dibromomethane | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| 1,2-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 2 | 20 | |
| 1,4-Dichlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Dichlorodifluoromethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 46-144 | 9 | 23 | |
| 1,1-Dichloroethane | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 0.7 | 20 | |
| 1,2-Dichloroethane | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 66-139 | 12 | 20 | |
| 1,1-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 63-131 | 4 | 22 | |
| cis-1,2-Dichloroethene | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 21.4 | 0.50 | ug/l | 25.0 | | 85 | 69-127 | 3 | 20 | |
| 1,2-Dichloropropane | 21.2 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 2 | 20 | |
| 1,3-Dichloropropane | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 5 | 20 | |
| 2,2-Dichloropropane | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 69-139 | 5 | 20 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/15/2013 (13C0599-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.4 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 0.04 | 20 | |
| trans-1,3-Dichloropropene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 3 | 20 | |
| Hexachlorobutadiene | 23.8 | 1.0 | ug/l | 25.0 | | 95 | 76-145 | 1 | 20 | |
| 2-Hexanone | 27.8 | 2.5 | ug/l | 25.0 | | 111 | 55-150 | 5 | 35 | |
| Iodomethane | 25.6 | 2.5 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| Isopropylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 88-141 | 5 | 20 | |
| p-Isopropyltoluene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 3 | 20 | |
| Methylene Chloride | 19.5 | 1.0 | ug/l | 25.0 | | 78 | 63-128 | 1 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 29.4 | 5.0 | ug/l | 25.0 | | 118 | 64-142 | 2 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Naphthalene | 23.8 | 5.0 | ug/l | 25.0 | | 95 | 78-143 | 2 | 20 | |
| n-Propylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 4 | 20 | |
| Styrene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 1 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 5 | 20 | |
| 1,1,2,2-Tetrachloroethane | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 3 | 20 | |
| Tetrachloroethene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Toluene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 20.8 | 1.0 | ug/l | 25.0 | | 83 | 79-139 | 5 | 20 | |
| 1,2,4-Trichlorobenzene | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 80-137 | 6 | 20 | |
| 1,1,1-Trichloroethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 71-131 | 7 | 20 | |
| 1,1,2-Trichloroethane | 23.1 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 2 | 20 | |
| Trichloroethene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 0.7 | 20 | |
| Trichlorofluoromethane | 34.2 | 0.50 | ug/l | 25.0 | | 137 | 69-150 | 10 | 22 | |
| 1,2,3-Trichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| Vinyl Acetate | 43.0 | 2.0 | ug/l | 25.0 | | 172 | 67-148 | 0.07 | 22 | *L3* |
| Vinyl chloride | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 65-137 | 3 | 20 | |
| Xylenes, Total | 46.8 | 1.0 | ug/l | 50.0 | | 94 | 70-130 | 2 | 20 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | | 83 | 65-139 | 2 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/15/2013 (13C0599-MS1)** | | | | | **Source: PWC0898-06** | | | | | |
| Acetone | 25.6 | 20 | ug/l | 25.0 | ND | 102 | 29-139 | | | |
| Benzene | 21.9 | 0.50 | ug/l | 25.0 | ND | 88 | 68-131 | | | |
| Bromobenzene | 22.9 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | | | |
| Bromochloromethane | 20.4 | 0.50 | ug/l | 25.0 | ND | 81 | 64-132 | | | |
| Bromodichloromethane | 27.7 | 0.50 | ug/l | 25.0 | 2.13 | 102 | 63-138 | | | |
| Bromoform | 25.3 | 1.0 | ug/l | 25.0 | 0.660 | 98 | 60-128 | | | |
| Bromomethane | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 47-144 | | | |
| 2-Butanone (MEK) | 23.6 | 5.0 | ug/l | 25.0 | ND | 94 | 31-143 | | | |
| n-Butylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 69-140 | | | |
| sec-Butylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 72-136 | | | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 74-135 | | | |
| Carbon disulfide | 21.7 | 1.0 | ug/l | 25.0 | ND | 87 | 45-150 | | | |
| Carbon tetrachloride | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 65-147 | | | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | | | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | | | |
| Chloroform | 24.6 | 0.50 | ug/l | 25.0 | 1.78 | 91 | 63-131 | | | |
| Chloromethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | | | |
| 2-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 71-131 | | | |
| 4-Chlorotoluene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Dibromochloromethane | 27.3 | 0.50 | ug/l | 25.0 | 2.38 | 100 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 34.4 | 5.0 | ug/l | 25.0 | ND | 138 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | | | |
| Dibromomethane | 23.6 | 0.50 | ug/l | 25.0 | ND | 95 | 66-136 | | | |
| 1,2-Dichlorobenzene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | | | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | | | |
| Dichlorodifluoromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 40-148 | | | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | ND | 88 | 62-130 | | | |
| 1,2-Dichloroethane | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 54-147 | | | |
| 1,1-Dichloroethene | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 57-137 | | | |
| cis-1,2-Dichloroethene | 21.5 | 0.50 | ug/l | 25.0 | ND | 86 | 65-127 | | | |
| trans-1,2-Dichloroethene | 21.6 | 0.50 | ug/l | 25.0 | ND | 87 | 62-131 | | | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | ND | 87 | 68-126 | | | |
| 1,3-Dichloropropane | 22.9 | 0.50 | ug/l | 25.0 | ND | 92 | 68-129 | | | |
| 2,2-Dichloropropane | 27.1 | 1.0 | ug/l | 25.0 | ND | 109 | 60-146 | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/15/2013 (13C0599-MS1)** | | | | | **Source: PWC0898-06** | | | | | |
| 1,1-Dichloropropene | 20.9 | 0.50 | ug/l | 25.0 | ND | 84 | 64-134 | | | |
| cis-1,3-Dichloropropene | 23.6 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | | | |
| trans-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 58-136 | | | |
| Ethylbenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 74-134 | | | |
| Hexachlorobutadiene | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 69-150 | | | |
| 2-Hexanone | 25.5 | 2.5 | ug/l | 25.0 | ND | 102 | 40-142 | | | |
| Iodomethane | 25.4 | 2.5 | ug/l | 25.0 | ND | 102 | 53-150 | | | |
| Isopropylbenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | | | |
| p-Isopropyltoluene | 24.9 | 0.50 | ug/l | 25.0 | ND | 99 | 70-133 | | | |
| Methylene Chloride | 19.2 | 1.0 | ug/l | 25.0 | ND | 77 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.4 | 5.0 | ug/l | 25.0 | ND | 117 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-138 | | | |
| Naphthalene | 24.4 | 5.0 | ug/l | 25.0 | ND | 97 | 67-146 | | | |
| n-Propylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 74-140 | | | |
| Styrene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 63-137 | | | |
| Tetrachloroethene | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 67-131 | | | |
| Toluene | 22.6 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 21.7 | 1.0 | ug/l | 25.0 | ND | 87 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 24.2 | 1.0 | ug/l | 25.0 | ND | 97 | 74-138 | | | |
| 1,1,1-Trichloroethane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 64-138 | | | |
| 1,1,2-Trichloroethane | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 63-132 | | | |
| Trichloroethene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 66-132 | | | |
| Trichlorofluoromethane | 32.8 | 0.50 | ug/l | 25.0 | ND | 131 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 66-137 | | | |
| Vinyl Acetate | 42.4 | 2.0 | ug/l | 25.0 | ND | 169 | 47-150 | | | *N1a* |
| Vinyl chloride | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | | | |
| Xylenes, Total | 46.2 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | | | |
| Freon 113 | 20.6 | 2.0 | ug/l | 25.0 | ND | 83 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/15/2013 (13C0599-MSD1)** | | | | | **Source: PWC0898-06** | | | | | |
| Acetone | 27.9 | 20 | ug/l | 25.0 | ND | 112 | 29-139 | 8 | 35 | |
| Benzene | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-131 | 0.8 | 32 | |
| Bromobenzene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | 0.2 | 28 | |
| Bromochloromethane | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-132 | 0.3 | 35 | |
| Bromodichloromethane | 28.1 | 0.50 | ug/l | 25.0 | 2.13 | 104 | 63-138 | 2 | 31 | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | 0.660 | 99 | 60-128 | 0.9 | 31 | |
| Bromomethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 23.0 | 5.0 | ug/l | 25.0 | ND | 92 | 31-143 | 2 | 35 | |
| n-Butylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | 3 | 32 | |
| sec-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 72-136 | 2 | 33 | |
| tert-Butylbenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 2 | 32 | |
| Carbon disulfide | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 45-150 | 0.5 | 35 | |
| Carbon tetrachloride | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-147 | 1 | 35 | |
| Chlorobenzene | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | 2 | 30 | |
| Chloroethane | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 57-139 | 2 | 35 | |
| Chloroform | 24.7 | 0.50 | ug/l | 25.0 | 1.78 | 92 | 63-131 | 0.4 | 33 | |
| Chloromethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 0.08 | 35 | |
| 2-Chlorotoluene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 1 | 29 | |
| 4-Chlorotoluene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 0.5 | 28 | |
| Dibromochloromethane | 28.6 | 0.50 | ug/l | 25.0 | 2.38 | 105 | 65-134 | 5 | 33 | |
| 1,2-Dibromo-3-chloropropane | 32.8 | 5.0 | ug/l | 25.0 | ND | 131 | 53-145 | 5 | 35 | *V1* |
| 1,2-Dibromoethane (EDB) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 5 | 33 | |
| Dibromomethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 4 | 35 | |
| 1,2-Dichlorobenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | 0.7 | 27 | |
| 1,3-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 1 | 28 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 28.4 | 0.50 | ug/l | 25.0 | ND | 113 | 40-148 | 3 | 35 | |
| 1,1-Dichloroethane | 22.4 | 0.50 | ug/l | 25.0 | ND | 89 | 62-130 | 2 | 34 | |
| 1,2-Dichloroethane | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 54-147 | 1 | 35 | |
| 1,1-Dichloroethene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 57-137 | 3 | 35 | |
| cis-1,2-Dichloroethene | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 65-127 | 0.6 | 34 | |
| trans-1,2-Dichloroethene | 21.5 | 0.50 | ug/l | 25.0 | ND | 86 | 62-131 | 0.7 | 35 | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 68-126 | 0.2 | 32 | |
| 1,3-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 68-129 | 5 | 33 | |
| 2,2-Dichloropropane | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 60-146 | 1 | 35 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/15/2013 (13C0599-MSD1)** | | | | | **Source: PWC0898-06** | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | ND | 87 | 64-134 | 4 | 34 | |
| cis-1,3-Dichloropropene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 0.7 | 35 | |
| trans-1,3-Dichloropropene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 58-136 | 2 | 35 | |
| Ethylbenzene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 74-134 | 4 | 32 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 69-150 | 6 | 32 | |
| 2-Hexanone | 28.4 | 2.5 | ug/l | 25.0 | ND | 114 | 40-142 | 11 | 35 | |
| Iodomethane | 25.7 | 2.5 | ug/l | 25.0 | ND | 103 | 53-150 | 1 | 35 | |
| Isopropylbenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 0.7 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 3 | 32 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | ND | 81 | 55-133 | 6 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 30.8 | 5.0 | ug/l | 25.0 | ND | 123 | 52-143 | 5 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 67-138 | 6 | 21 | |
| Naphthalene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 67-146 | 3 | 29 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 74-140 | 0.6 | 32 | |
| Styrene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 43-144 | 1 | 35 | |
| 1,1,1,2-Tetrachloroethane | 25.6 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 2 | 30 | |
| 1,1,2,2-Tetrachloroethane | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-137 | 3 | 32 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-131 | 0.3 | 31 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 65-138 | 0.9 | 33 | |
| 1,2,3-Trichlorobenzene | 21.4 | 1.0 | ug/l | 25.0 | ND | 86 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 22.7 | 1.0 | ug/l | 25.0 | ND | 91 | 74-138 | 6 | 26 | |
| 1,1,1-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 64-138 | 0.1 | 35 | |
| 1,1,2-Trichloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 63-132 | 6 | 35 | |
| Trichloroethene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 66-132 | 0.04 | 29 | |
| Trichlorofluoromethane | 33.0 | 0.50 | ug/l | 25.0 | ND | 132 | 62-150 | 0.7 | 35 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 68-130 | 0.9 | 32 | |
| 1,2,4-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 63-135 | 2 | 31 | |
| 1,3,5-Trimethylbenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 66-137 | 2 | 30 | |
| Vinyl Acetate | 43.9 | 2.0 | ug/l | 25.0 | ND | 176 | 47-150 | 4 | 35 | *N1a* |
| Vinyl chloride | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 0.4 | 35 | |
| Xylenes, Total | 47.0 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | 2 | 31 | |
| Freon 113 | 20.3 | 2.0 | ug/l | 25.0 | ND | 81 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0527 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0527-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *4.63* | | *ug/l* | *20.0* | | *23* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *13.6* | | *ug/l* | *20.0* | | *68* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0527-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.49* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0527-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.8 | 1.0 | ug/l | 20.0 | | 104 | 85-116 | 5 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.45* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *14.3* | | *ug/l* | *20.0* | | *72* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0527-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 67.8 | 1.0 | ug/l | 20.4 | 3.03 | 317 | 65-138 | | | *M1* |
| *Surrogate: 1,4-Dioxane-d8* | *5.89* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *20.4* | | *78* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/20/2013 (13C0527-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 25.3 | 1.0 | ug/l | 20.4 | 3.03 | 109 | 65-138 | 91 | 20 | *N1b* |
| *Surrogate: 1,4-Dioxane-d8* | *5.99* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.4* | | *77* | *27-143* | | | |
| **Batch: 13C0862 Extracted: 03/21/13** | | | | | | | | | | |
| **Blank Analyzed: 03/23/2013 (13C0862-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *15.9* | | *ug/l* | *20.0* | | *80* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.6* | | *ug/l* | *20.0* | | *103* | *27-143* | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0862 Extracted: 03/21/13** | | | | | | | | | | |
| **LCS Analyzed: 03/23/2013 (13C0862-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.0 | 1.0 | ug/l | 20.0 | | 105 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *15.2* | | *ug/l* | *20.0* | | *76* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *21.0* | | *ug/l* | *20.0* | | *105* | *28-150* | | | |
| **LCS Dup Analyzed: 03/23/2013 (13C0862-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.1 | 1.0 | ug/l | 20.0 | | 106 | 85-116 | 0.4 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *15.6* | | *ug/l* | *20.0* | | *78* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *21.3* | | *ug/l* | *20.0* | | *106* | *28-150* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **H4** | Sample was extracted past required extraction holding time, but analyzed within analysis holding time. |
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **M1** | Matrix spike recovery was high; the associated blank spike recovery was acceptable. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **R6** | LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria. |
| **S7** | Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0676

Sampled: 03/11/13
Received: 03/11/13

## Certification Summary

**TestAmerica Phoenix**

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
2272 E Indian School Rd #100
Phoenix AZ 85016

Project/PO Number: 003
009 GWS

Project Manager: @ jason.hilliard@erm.com

Phone Number: 480-998-3820

Sampler: [illegible]

Fax Number:

Analysis Required: VOC 8260B; 1,4-Dioxane 8270

PWO0676

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260B | 1,4-Dioxane 8270 | | | | | | | | Special Instructions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EW-21-S-031113 | W | Sample 2x12 | 5 | 3/11/13 | 0932 | HCl | X | X | | | | | | | | | -01 |
| 003-165-S-031113 | | | | 3/11/13 | 1154 | | X | X | | | | | | | | | -02 |
| 003-165-S-031113-QC | | | | 3/11/13 | 1154 | | X | X | | | | | | | | | -03 |
| 003-10M2-M-031113 | | | | 3/11/13 | 1447 | | X | X | | | | | | | | | -04 |
| 003-103-S-031113 | | | | 3/11/13 | 1521 | | X | X | | | | | | | | | -05 |
| 003-103-S-031113-QC | | | | 3/11/13 | 1521 | | X | X | | | | | | | | | -06 |
| GW-EB5-031113 | | | | 3/11/13 | 1205 | | X | X | | | | | | | | | -07 |
| GW-EB6-031113 | | | | 3/11/13 | 1216 | | X | X | | | | | | | | | -08 |
| GW-EB10-031113 | | | | 3/11/13 | 1625 | | X | X | | | | | | | | | -09 |
| GW-TB-S-031113 | | 1x40mL | 1 | 3/11/13 | — | HCl | X | | | | | | | | | Trip Blank | -10 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [signature] ERM | 3/11/08 1657 | [signature] | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [signature] | Date/Time: 3/11/13 1657 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

0.8 1.9 c

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THE LEADER IN ENVIRONMENTAL TESTING

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/12/13
Received: 03/12/13
Revised: 04/29/13 07:26

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0755-01 | OU3-5DR-D-031213 | Water |
| PWC0755-02 | OU3-5MR-M-031213 | Water |
| PWC0755-03 | OU3-5SR-S-031213 | Water |
| PWC0755-04 | GW-EB7-031213 | Water |
| PWC0755-05 | GW-LI-6-031213 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1a-Vinyl Acetate-The second source initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Revised report 042913 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-01 (OU3-5DR-D-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0509 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| sec-Butylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| tert-Butylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Carbon disulfide | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroform | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC0755-01 (OU3-5DR-D-031213 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0509 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0509 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| p-Isopropyltoluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Styrene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0509 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0509 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0509 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *102 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-02 (OU3-5MR-M-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **1.6** | 1 | 3/14/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **4.7** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **6.7** | 1 | 3/14/2013 | 3/15/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **8.7** | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-02 (OU3-5MR-M-031213 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **1.8** | 1 | 3/14/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **41** | 1 | 3/14/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *101 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-03 (OU3-5SR-S-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **3.6** | 1 | 3/14/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **2.3** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **3.1** | 1 | 3/14/2013 | 3/15/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **4.3** | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-03 (OU3-5SR-S-031213 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **0.91** | 1 | 3/14/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **20** | 1 | 3/14/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *104 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-04 (GW-EB7-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0558 | 0.50 | **2.7** | 1 | 3/14/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **1.8** | 1 | 3/14/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0558 | 0.50 | **3.4** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-04 (GW-EB7-031213 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Trichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *102 %* | | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-05 (GW-LI-6-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0509 | 20 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Benzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromochloromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromoform | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Bromomethane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| sec-Butylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| tert-Butylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Carbon disulfide | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroethane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloroform | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Chloromethane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dibromomethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Ethylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-05 (GW-LI-6-031213 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0509 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Iodomethane | EPA 8260B | 13C0509 | 2.5 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| p-Isopropyltoluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methylene Chloride | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Naphthalene | EPA 8260B | 13C0509 | 5.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | L3 |
| Styrene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Toluene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichloroethene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0509 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0509 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0509 | 0.50 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Xylenes, Total | EPA 8260B | 13C0509 | 1.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| Freon 113 | EPA 8260B | 13C0509 | 2.0 | ND | 1 | 3/13/2013 | 3/13/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *102 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *101 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0755-01 (OU3-5DR-D-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *27 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC0755-02 (OU3-5MR-M-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0573 | 1.0 | **2.3** | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *24 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *78 %* | | | | |
| **Sample ID: PWC0755-03 (OU3-5SR-S-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0573 | 1.0 | **1.2** | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *24 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *82 %* | | | | |
| **Sample ID: PWC0755-04 (GW-EB7-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *27 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *77 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0509-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/13/2013 (13C0509-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *24.5* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.4* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.9* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0509-BS1)** | | | | | | | | | | |
| Acetone | 26.0 | 20 | ug/l | 25.0 | | 104 | 38-150 | | | |
| Benzene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | | | |
| Bromobenzene | 30.5 | 0.50 | ug/l | 25.0 | | 122 | 70-130 | | | |
| Bromochloromethane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Bromodichloromethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Bromoform | 29.2 | 1.0 | ug/l | 25.0 | | 117 | 69-129 | | | |
| Bromomethane | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 57-138 | | | |
| 2-Butanone (MEK) | 25.4 | 5.0 | ug/l | 25.0 | | 101 | 53-150 | | | |
| n-Butylbenzene | 32.6 | 0.50 | ug/l | 25.0 | | 131 | 70-130 | | | *L3* |
| sec-Butylbenzene | 33.8 | 0.50 | ug/l | 25.0 | | 135 | 70-130 | | | *L3* |
| tert-Butylbenzene | 34.7 | 0.50 | ug/l | 25.0 | | 139 | 70-130 | | | *L3* |
| Carbon disulfide | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 64-145 | | | |
| Carbon tetrachloride | 31.8 | 0.50 | ug/l | 25.0 | | 127 | 70-143 | | | |
| Chlorobenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Chloroethane | 28.2 | 1.0 | ug/l | 25.0 | | 113 | 66-131 | | | |
| Chloroform | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Chloromethane | 26.7 | 1.0 | ug/l | 25.0 | | 107 | 56-129 | | | |
| 2-Chlorotoluene | 31.7 | 0.50 | ug/l | 25.0 | | 127 | 70-130 | | | |
| 4-Chlorotoluene | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | | | |
| Dibromochloromethane | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 31.8 | 5.0 | ug/l | 25.0 | | 127 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Dibromomethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,3-Dichlorobenzene | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | | | |
| 1,4-Dichlorobenzene | 28.8 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | | | |
| Dichlorodifluoromethane | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 46-144 | | | |
| 1,1-Dichloroethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichloroethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 66-139 | | | |
| 1,1-Dichloroethene | 31.9 | 0.50 | ug/l | 25.0 | | 128 | 63-131 | | | |
| cis-1,2-Dichloroethene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| trans-1,2-Dichloroethene | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 69-127 | | | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3-Dichloropropane | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 2,2-Dichloropropane | 29.2 | 1.0 | ug/l | 25.0 | | 117 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Analyzed: 03/13/2013 (13C0509-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 70-130 | | | |
| cis-1,3-Dichloropropene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Ethylbenzene | 31.5 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | | | |
| Hexachlorobutadiene | 30.8 | 1.0 | ug/l | 25.0 | | 123 | 76-145 | | | |
| 2-Hexanone | 29.5 | 2.5 | ug/l | 25.0 | | 118 | 55-150 | | | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Isopropylbenzene | 37.2 | 0.50 | ug/l | 25.0 | | 149 | 88-141 | | | *L3* |
| p-Isopropyltoluene | 32.5 | 0.50 | ug/l | 25.0 | | 130 | 70-130 | | | |
| Methylene Chloride | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 27.6 | 5.0 | ug/l | 25.0 | | 110 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Naphthalene | 29.4 | 5.0 | ug/l | 25.0 | | 118 | 78-143 | | | |
| n-Propylbenzene | 34.9 | 0.50 | ug/l | 25.0 | | 140 | 70-130 | | | *L3* |
| Styrene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 118 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | | | |
| Tetrachloroethene | 31.7 | 0.50 | ug/l | 25.0 | | 127 | 70-130 | | | |
| Toluene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-137 | | | |
| 1,1,1-Trichloroethane | 29.8 | 0.50 | ug/l | 25.0 | | 119 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Trichloroethene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | | | |
| Trichlorofluoromethane | 33.2 | 0.50 | ug/l | 25.0 | | 133 | 69-150 | | | |
| 1,2,3-Trichloropropane | 31.6 | 2.0 | ug/l | 25.0 | | 126 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 32.4 | 0.50 | ug/l | 25.0 | | 129 | 70-130 | | | |
| Vinyl Acetate | 37.2 | 2.0 | ug/l | 25.0 | | 149 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 65-137 | | | |
| Xylenes, Total | 59.4 | 1.0 | ug/l | 50.0 | | 119 | 70-130 | | | |
| Freon 113 | 30.2 | 2.0 | ug/l | 25.0 | | 121 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *23.5* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0509-BSD1)** | | | | | | | | | | |
| Acetone | 22.4 | 20 | ug/l | 25.0 | | 90 | 38-150 | 15 | 35 | |
| Benzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 7 | 20 | |
| Bromobenzene | 28.6 | 0.50 | ug/l | 25.0 | | 115 | 70-130 | 6 | 20 | |
| Bromochloromethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 2 | 20 | |
| Bromodichloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 3 | 20 | |
| Bromoform | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 69-129 | 8 | 20 | |
| Bromomethane | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 57-138 | 6 | 20 | |
| 2-Butanone (MEK) | 23.6 | 5.0 | ug/l | 25.0 | | 94 | 53-150 | 7 | 35 | |
| n-Butylbenzene | 30.3 | 0.50 | ug/l | 25.0 | | 121 | 70-130 | 8 | 20 | |
| sec-Butylbenzene | 30.6 | 0.50 | ug/l | 25.0 | | 122 | 70-130 | 10 | 20 | |
| tert-Butylbenzene | 31.3 | 0.50 | ug/l | 25.0 | | 125 | 70-130 | 10 | 20 | |
| Carbon disulfide | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 64-145 | 5 | 33 | |
| Carbon tetrachloride | 29.0 | 0.50 | ug/l | 25.0 | | 116 | 70-143 | 9 | 20 | |
| Chlorobenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 7 | 20 | |
| Chloroethane | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 66-131 | 6 | 20 | |
| Chloroform | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 3 | 20 | |
| Chloromethane | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 56-129 | 5 | 20 | |
| 2-Chlorotoluene | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 8 | 20 | |
| 4-Chlorotoluene | 29.2 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | 8 | 20 | |
| Dibromochloromethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 7 | 20 | |
| 1,2-Dibromo-3-chloropropane | 26.1 | 5.0 | ug/l | 25.0 | | 104 | 63-146 | 20 | 22 | |
| 1,2-Dibromoethane (EDB) | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 9 | 20 | |
| Dibromomethane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 4 | 20 | |
| 1,2-Dichlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 4 | 20 | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | | 113 | 70-130 | 5 | 20 | |
| 1,4-Dichlorobenzene | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 4 | 20 | |
| Dichlorodifluoromethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 4 | 20 | |
| 1,2-Dichloroethane | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 66-139 | 3 | 20 | |
| 1,1-Dichloroethene | 29.7 | 0.50 | ug/l | 25.0 | | 119 | 63-131 | 7 | 22 | |
| cis-1,2-Dichloroethene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 69-127 | 5 | 20 | |
| 1,2-Dichloropropane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 3 | 20 | |
| 1,3-Dichloropropane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 6 | 20 | |
| 2,2-Dichloropropane | 28.5 | 1.0 | ug/l | 25.0 | | 114 | 69-139 | 2 | 20 | |

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Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/13/2013 (13C0509-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 9 | 20 | |
| cis-1,3-Dichloropropene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| trans-1,3-Dichloropropene | 24.9 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 5 | 20 | |
| Ethylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 70-130 | 8 | 20 | |
| Hexachlorobutadiene | 28.6 | 1.0 | ug/l | 25.0 | | 114 | 76-145 | 8 | 20 | |
| 2-Hexanone | 25.4 | 2.5 | ug/l | 25.0 | | 102 | 55-150 | 15 | 35 | |
| Iodomethane | 26.3 | 2.5 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| Isopropylbenzene | 33.5 | 0.50 | ug/l | 25.0 | | 134 | 88-141 | 10 | 20 | |
| p-Isopropyltoluene | 29.6 | 0.50 | ug/l | 25.0 | | 119 | 70-130 | 9 | 20 | |
| Methylene Chloride | 23.1 | 1.0 | ug/l | 25.0 | | 92 | 63-128 | 3 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 23.2 | 5.0 | ug/l | 25.0 | | 93 | 64-142 | 17 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 0.2 | 20 | |
| Naphthalene | 25.8 | 5.0 | ug/l | 25.0 | | 103 | 78-143 | 13 | 20 | |
| n-Propylbenzene | 31.5 | 0.50 | ug/l | 25.0 | | 126 | 70-130 | 10 | 20 | |
| Styrene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 6 | 20 | |
| 1,1,1,2-Tetrachloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 6 | 20 | |
| 1,1,2,2-Tetrachloroethane | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | 14 | 20 | |
| Tetrachloroethene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 10 | 20 | |
| Toluene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 7 | 20 | |
| 1,2,3-Trichlorobenzene | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 79-139 | 5 | 20 | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 80-137 | 5 | 20 | |
| 1,1,1-Trichloroethane | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 71-131 | 5 | 20 | |
| 1,1,2-Trichloroethane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 4 | 20 | |
| Trichloroethene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 9 | 20 | |
| Trichlorofluoromethane | 31.7 | 0.50 | ug/l | 25.0 | | 127 | 69-150 | 5 | 22 | |
| 1,2,3-Trichloropropane | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | 15 | 20 | |
| 1,2,4-Trimethylbenzene | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | 8 | 20 | |
| 1,3,5-Trimethylbenzene | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 34.3 | 2.0 | ug/l | 25.0 | | 137 | 67-148 | 8 | 22 | *N1a* |
| Vinyl chloride | 28.1 | 0.50 | ug/l | 25.0 | | 112 | 65-137 | 6 | 20 | |
| Xylenes, Total | 55.2 | 1.0 | ug/l | 50.0 | | 110 | 70-130 | 7 | 20 | |
| Freon 113 | 28.4 | 2.0 | ug/l | 25.0 | | 114 | 65-139 | 6 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.8* | | *ug/l* | *25.0* | | *99* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.6* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0509-MS1)** | | | | | **Source: PWC0755-01** | | | | | |
| Acetone | 17.9 | 20 | ug/l | 25.0 | ND | 72 | 29-139 | | | |
| Benzene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 68-131 | | | |
| Bromobenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | | | |
| Bromochloromethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 64-132 | | | |
| Bromodichloromethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 63-138 | | | |
| Bromoform | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 60-128 | | | |
| Bromomethane | 25.1 | 1.0 | ug/l | 25.0 | ND | 100 | 47-144 | | | |
| 2-Butanone (MEK) | 22.3 | 5.0 | ug/l | 25.0 | ND | 89 | 31-143 | | | |
| n-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 69-140 | | | |
| sec-Butylbenzene | 29.1 | 0.50 | ug/l | 25.0 | ND | 116 | 72-136 | | | |
| tert-Butylbenzene | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 74-135 | | | |
| Carbon disulfide | 25.9 | 1.0 | ug/l | 25.0 | ND | 104 | 45-150 | | | |
| Carbon tetrachloride | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 65-147 | | | |
| Chlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Chloroethane | 27.9 | 1.0 | ug/l | 25.0 | ND | 111 | 57-139 | | | |
| Chloroform | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 63-131 | | | |
| Chloromethane | 25.7 | 1.0 | ug/l | 25.0 | ND | 103 | 47-134 | | | |
| 2-Chlorotoluene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| Dibromochloromethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 24.1 | 5.0 | ug/l | 25.0 | ND | 96 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| Dibromomethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| 1,3-Dichlorobenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 70-130 | | | |
| Dichlorodifluoromethane | 27.1 | 0.50 | ug/l | 25.0 | ND | 109 | 40-148 | | | |
| 1,1-Dichloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 111 | 62-130 | | | |
| 1,2-Dichloroethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 54-147 | | | |
| 1,1-Dichloroethene | 31.2 | 0.50 | ug/l | 25.0 | ND | 125 | 57-137 | | | |
| cis-1,2-Dichloroethene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 65-127 | | | |
| trans-1,2-Dichloroethene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 62-131 | | | |
| 1,2-Dichloropropane | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 68-126 | | | |
| 1,3-Dichloropropane | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | | | |
| 2,2-Dichloropropane | 28.2 | 1.0 | ug/l | 25.0 | ND | 113 | 60-146 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2013 (13C0509-MS1)** | | | | | **Source: PWC0755-01** | | | | | |
| 1,1-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 64-134 | | | |
| cis-1,3-Dichloropropene | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 58-136 | | | |
| Ethylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 74-134 | | | |
| Hexachlorobutadiene | 26.5 | 1.0 | ug/l | 25.0 | ND | 106 | 69-150 | | | |
| 2-Hexanone | 23.2 | 2.5 | ug/l | 25.0 | ND | 93 | 40-142 | | | |
| Iodomethane | 28.0 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | | | |
| Isopropylbenzene | 32.6 | 0.50 | ug/l | 25.0 | ND | 130 | 80-146 | | | |
| p-Isopropyltoluene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 70-133 | | | |
| Methylene Chloride | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.0 | 5.0 | ug/l | 25.0 | ND | 96 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 67-138 | | | |
| Naphthalene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 67-146 | | | |
| n-Propylbenzene | 30.4 | 0.50 | ug/l | 25.0 | ND | 122 | 74-140 | | | |
| Styrene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 63-137 | | | |
| Tetrachloroethene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 67-131 | | | |
| Toluene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 74-138 | | | |
| 1,1,1-Trichloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.1 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 29.2 | 0.50 | ug/l | 25.0 | 0.270 | 116 | 66-132 | | | |
| Trichlorofluoromethane | 33.0 | 0.50 | ug/l | 25.0 | ND | 132 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.7 | 2.0 | ug/l | 25.0 | ND | 107 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 66-137 | | | |
| Vinyl Acetate | 32.8 | 2.0 | ug/l | 25.0 | ND | 131 | 47-150 | | | *N1a* |
| Vinyl chloride | 28.9 | 0.50 | ug/l | 25.0 | ND | 116 | 55-146 | | | |
| Xylenes, Total | 56.1 | 1.0 | ug/l | 50.0 | ND | 112 | 68-131 | | | |
| Freon 113 | 30.0 | 2.0 | ug/l | 25.0 | ND | 120 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0509-MSD1)** | | | | | **Source: PWC0755-01** | | | | | |
| Acetone | 15.4 | 20 | ug/l | 25.0 | ND | 61 | 29-139 | 15 | 35 | |
| Benzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 68-131 | 0.6 | 32 | |
| Bromobenzene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 70-130 | 2 | 28 | |
| Bromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 64-132 | 2 | 35 | |
| Bromodichloromethane | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 63-138 | 2 | 31 | |
| Bromoform | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 60-128 | 3 | 31 | |
| Bromomethane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 47-144 | 3 | 35 | |
| 2-Butanone (MEK) | 21.7 | 5.0 | ug/l | 25.0 | ND | 87 | 31-143 | 3 | 35 | |
| n-Butylbenzene | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 69-140 | 4 | 32 | |
| sec-Butylbenzene | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 72-136 | 3 | 33 | |
| tert-Butylbenzene | 30.7 | 0.50 | ug/l | 25.0 | ND | 123 | 74-135 | 2 | 32 | |
| Carbon disulfide | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 45-150 | 2 | 35 | |
| Carbon tetrachloride | 30.3 | 0.50 | ug/l | 25.0 | ND | 121 | 65-147 | 1 | 35 | |
| Chlorobenzene | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | 2 | 30 | |
| Chloroethane | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 57-139 | 2 | 35 | |
| Chloroform | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 63-131 | 0.04 | 33 | |
| Chloromethane | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 47-134 | 2 | 35 | |
| 2-Chlorotoluene | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 71-131 | 3 | 29 | |
| 4-Chlorotoluene | 29.1 | 0.50 | ug/l | 25.0 | ND | 117 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-134 | 0.3 | 33 | |
| 1,2-Dibromo-3-chloropropane | 24.0 | 5.0 | ug/l | 25.0 | ND | 96 | 53-145 | 0.1 | 35 | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 70-130 | 0.4 | 33 | |
| Dibromomethane | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 66-136 | 3 | 35 | |
| 1,2-Dichlorobenzene | 27.8 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | 2 | 27 | |
| 1,3-Dichlorobenzene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | 2 | 28 | |
| 1,4-Dichlorobenzene | 28.1 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | 3 | 26 | |
| Dichlorodifluoromethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 40-148 | 5 | 35 | |
| 1,1-Dichloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 62-130 | 0.1 | 34 | |
| 1,2-Dichloroethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 54-147 | 4 | 35 | |
| 1,1-Dichloroethene | 30.8 | 0.50 | ug/l | 25.0 | ND | 123 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 65-127 | 2 | 34 | |
| trans-1,2-Dichloroethene | 29.1 | 0.50 | ug/l | 25.0 | ND | 117 | 62-131 | 0.3 | 35 | |
| 1,2-Dichloropropane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 68-126 | 1 | 32 | |
| 1,3-Dichloropropane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 68-129 | 0.3 | 33 | |
| 2,2-Dichloropropane | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 60-146 | 2 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0509 Extracted: 03/13/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/13/2013 (13C0509-MSD1)** | | | | | **Source: PWC0755-01** | | | | | |
| 1,1-Dichloropropene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 64-134 | 0.8 | 34 | |
| cis-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 63-135 | 0.4 | 35 | |
| trans-1,3-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 58-136 | 2 | 35 | |
| Ethylbenzene | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 74-134 | 3 | 32 | |
| Hexachlorobutadiene | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 69-150 | 3 | 32 | |
| 2-Hexanone | 22.9 | 2.5 | ug/l | 25.0 | ND | 92 | 40-142 | 1 | 35 | |
| Iodomethane | 27.9 | 2.5 | ug/l | 25.0 | ND | 112 | 53-150 | 0.2 | 35 | |
| Isopropylbenzene | 33.4 | 0.50 | ug/l | 25.0 | ND | 134 | 80-146 | 3 | 32 | |
| p-Isopropyltoluene | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 70-133 | 4 | 32 | |
| Methylene Chloride | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 55-133 | 2 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 22.9 | 5.0 | ug/l | 25.0 | ND | 91 | 52-143 | 5 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 67-138 | 2 | 21 | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 67-146 | 2 | 29 | |
| n-Propylbenzene | 31.1 | 0.50 | ug/l | 25.0 | ND | 124 | 74-140 | 2 | 32 | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | 2 | 35 | |
| 1,1,1,2-Tetrachloroethane | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 70-130 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 63-137 | 3 | 32 | |
| Tetrachloroethene | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 67-131 | 2 | 31 | |
| Toluene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 65-138 | 0.9 | 33 | |
| 1,2,3-Trichlorobenzene | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 74-139 | 3 | 26 | |
| 1,2,4-Trichlorobenzene | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 74-138 | 5 | 26 | |
| 1,1,1-Trichloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 64-138 | 0.03 | 35 | |
| 1,1,2-Trichloroethane | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 63-132 | 3 | 35 | |
| Trichloroethene | 29.1 | 0.50 | ug/l | 25.0 | 0.270 | 115 | 66-132 | 0.4 | 29 | |
| Trichlorofluoromethane | 31.8 | 0.50 | ug/l | 25.0 | ND | 127 | 62-150 | 4 | 35 | |
| 1,2,3-Trichloropropane | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 68-130 | 2 | 32 | |
| 1,2,4-Trimethylbenzene | 28.0 | 0.50 | ug/l | 25.0 | ND | 112 | 63-135 | 2 | 31 | |
| 1,3,5-Trimethylbenzene | 29.6 | 0.50 | ug/l | 25.0 | ND | 118 | 66-137 | 3 | 30 | |
| Vinyl Acetate | 31.1 | 2.0 | ug/l | 25.0 | ND | 124 | 47-150 | 5 | 35 | *N1a* |
| Vinyl chloride | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 55-146 | 3 | 35 | |
| Xylenes, Total | 57.4 | 1.0 | ug/l | 50.0 | ND | 115 | 68-131 | 2 | 31 | |
| Freon 113 | 29.5 | 2.0 | ug/l | 25.0 | ND | 118 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.4* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| Acetone | 33.5 | 20 | ug/l | 25.0 | | 134 | 38-150 | | | |
| Benzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Bromobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromochloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | | 113 | 69-129 | | | |
| Bromomethane | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 57-138 | | | |
| 2-Butanone (MEK) | 30.0 | 5.0 | ug/l | 25.0 | | 120 | 53-150 | | | |
| n-Butylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Carbon disulfide | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 64-145 | | | |
| Carbon tetrachloride | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-143 | | | |
| Chlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 66-131 | | | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Chloromethane | 29.8 | 1.0 | ug/l | 25.0 | | 119 | 56-129 | | | |
| 2-Chlorotoluene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 4-Chlorotoluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Dibromochloromethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 33.1 | 0.50 | ug/l | 25.0 | | 132 | 46-144 | | | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 66-139 | | | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | | | |
| 1,2-Dichloropropane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 2,2-Dichloropropane | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 69-139 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| cis-1,3-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Ethylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 30.6 | 2.5 | ug/l | 25.0 | | 123 | 55-150 | | | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Isopropylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 88-141 | | | |
| p-Isopropyltoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Naphthalene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 78-143 | | | |
| n-Propylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Styrene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 42.8 | 2.0 | ug/l | 25.0 | | 171 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 50.2 | 1.0 | ug/l | 50.0 | | 100 | 70-130 | | | |
| Freon 113 | 22.8 | 2.0 | ug/l | 25.0 | | 91 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *107* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

**TestAmerica Phoenix**

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| Acetone | 22.4 | 20 | ug/l | 25.0 | | 90 | 38-150 | 40 | 35 | *R6* |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 11 | 20 | |
| Bromobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 13 | 20 | |
| Bromochloromethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 15 | 20 | |
| Bromodichloromethane | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 15 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 15 | 20 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 13 | 20 | |
| 2-Butanone (MEK) | 24.5 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| sec-Butylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 7 | 20 | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 7 | 20 | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 9 | 33 | |
| Carbon tetrachloride | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-143 | 8 | 20 | |
| Chlorobenzene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 10 | 20 | |
| Chloroethane | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 66-131 | 12 | 20 | |
| Chloroform | 21.0 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 14 | 20 | |
| Chloromethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | 9 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| 4-Chlorotoluene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| Dibromochloromethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 63-146 | 7 | 22 | |
| 1,2-Dibromoethane (EDB) | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 16 | 20 | |
| Dibromomethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 20 | 20 | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,3-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 10 | 20 | |
| Dichlorodifluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 12 | 20 | |
| 1,2-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 66-139 | 18 | 20 | |
| 1,1-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 63-131 | 10 | 22 | |
| cis-1,2-Dichloroethene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 14 | 20 | |
| trans-1,2-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 69-127 | 11 | 20 | |
| 1,2-Dichloropropane | 21.3 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 13 | 20 | |
| 1,3-Dichloropropane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 2,2-Dichloropropane | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 69-139 | 10 | 20 | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | | 83 | 70-130 | 7 | 20 | |
| cis-1,3-Dichloropropene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 15 | 20 | |
| trans-1,3-Dichloropropene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 16 | 20 | |
| Ethylbenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | 4 | 20 | |
| 2-Hexanone | 25.7 | 2.5 | ug/l | 25.0 | | 103 | 55-150 | 18 | 35 | |
| Iodomethane | 24.0 | 2.5 | ug/l | 25.0 | | 96 | 70-130 | 12 | 20 | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | 6 | 20 | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 6 | 20 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | | 81 | 63-128 | 14 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 64-142 | 15 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 20.9 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 19 | 20 | |
| Naphthalene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 6 | 20 | |
| Styrene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 12 | 20 | |
| 1,1,1,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 11 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 13 | 20 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 6 | 20 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 11 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 10 | 20 | |
| 1,2,4-Trichlorobenzene | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 80-137 | 8 | 20 | |
| 1,1,1-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 71-131 | 10 | 20 | |
| 1,1,2-Trichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 16 | 20 | |
| Trichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 9 | 20 | |
| Trichlorofluoromethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 69-150 | 6 | 22 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | | 145 | 67-148 | 17 | 22 | *N1a* |
| Vinyl chloride | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 65-137 | 8 | 20 | |
| Xylenes, Total | 46.3 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 8 | 20 | |
| Freon 113 | 21.1 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | 8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 21.6 | 20 | ug/l | 25.0 | ND | 86 | 29-139 | | | |
| Benzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Bromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 64-132 | | | |
| Bromodichloromethane | 27.0 | 0.50 | ug/l | 25.0 | 0.580 | 106 | 63-138 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | ND | 114 | 60-128 | | | |
| Bromomethane | 28.4 | 1.0 | ug/l | 25.0 | ND | 113 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 69-140 | | | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | | | |
| tert-Butylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-135 | | | |
| Carbon disulfide | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 45-150 | | | |
| Carbon tetrachloride | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | | | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | | | |
| Chloroethane | 28.9 | 1.0 | ug/l | 25.0 | ND | 116 | 57-139 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | 1.15 | 101 | 63-131 | | | |
| Chloromethane | 29.6 | 1.0 | ug/l | 25.0 | ND | 118 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/l | 25.0 | 1.28 | 111 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dibromomethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 40-148 | | | |
| 1,1-Dichloroethane | 32.6 | 0.50 | ug/l | 25.0 | 6.59 | 104 | 62-130 | | | |
| 1,2-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 38.8 | 0.50 | ug/l | 25.0 | 10.3 | 114 | 57-137 | | | |
| cis-1,2-Dichloroethene | 37.6 | 0.50 | ug/l | 25.0 | 11.3 | 105 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-126 | | | |
| 1,3-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-129 | | | |
| 2,2-Dichloropropane | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 60-146 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 64-134 | | | |
| cis-1,3-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 58-136 | | | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-134 | | | |
| Hexachlorobutadiene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | | | |
| 2-Hexanone | 27.5 | 2.5 | ug/l | 25.0 | ND | 110 | 40-142 | | | |
| Iodomethane | 28.6 | 2.5 | ug/l | 25.0 | ND | 114 | 53-150 | | | |
| Isopropylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 80-146 | | | |
| p-Isopropyltoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-133 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | ND | 116 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | | | |
| Naphthalene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 67-146 | | | |
| n-Propylbenzene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 63-137 | | | |
| Tetrachloroethene | 29.1 | 0.50 | ug/l | 25.0 | 2.06 | 108 | 67-131 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 107 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 75.7 | 0.50 | ug/l | 25.0 | 49.5 | 105 | 66-132 | | | |
| Trichlorofluoromethane | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 66-137 | | | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | | | *N1, N1a* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 53.8 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 24.7 | 2.0 | ug/l | 25.0 | 0.190 | 98 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 17.7 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | 20 | 35 | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | 15 | 32 | |
| Bromobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 28 | |
| Bromochloromethane | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 64-132 | 12 | 35 | |
| Bromodichloromethane | 22.8 | 0.50 | ug/l | 25.0 | 0.580 | 89 | 63-138 | 17 | 31 | |
| Bromoform | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 60-128 | 16 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 23.2 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 12 | 35 | |
| n-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 69-140 | 14 | 32 | |
| sec-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 16 | 32 | |
| Carbon disulfide | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 45-150 | 17 | 35 | |
| Carbon tetrachloride | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 65-147 | 16 | 35 | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 16 | 30 | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | 17 | 35 | |
| Chloroform | 22.6 | 0.50 | ug/l | 25.0 | 1.15 | 86 | 63-131 | 15 | 33 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 15 | 35 | |
| 2-Chlorotoluene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 15 | 29 | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-134 | 14 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.5 | 5.0 | ug/l | 25.0 | 1.28 | 97 | 53-145 | 13 | 35 | |
| 1,2-Dibromoethane (EDB) | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 14 | 33 | |
| Dibromomethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 66-136 | 14 | 35 | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 27 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 15 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 14 | 26 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | ND | 119 | 40-148 | 13 | 35 | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | 6.59 | 87 | 62-130 | 14 | 34 | |
| 1,2-Dichloroethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 54-147 | 12 | 35 | |
| 1,1-Dichloroethene | 33.3 | 0.50 | ug/l | 25.0 | 10.3 | 92 | 57-137 | 15 | 35 | |
| cis-1,2-Dichloroethene | 33.2 | 0.50 | ug/l | 25.0 | 11.3 | 87 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 62-131 | 16 | 35 | |
| 1,2-Dichloropropane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-126 | 15 | 32 | |
| 1,3-Dichloropropane | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-129 | 15 | 33 | |
| 2,2-Dichloropropane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 60-146 | 11 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-134 | 17 | 34 | |
| cis-1,3-Dichloropropene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 63-135 | 14 | 35 | |
| trans-1,3-Dichloropropene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 58-136 | 15 | 35 | |
| Ethylbenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 74-134 | 15 | 32 | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | 13 | 32 | |
| 2-Hexanone | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 40-142 | 14 | 35 | |
| Iodomethane | 24.7 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 15 | 35 | |
| Isopropylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 16 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 14 | 32 | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | ND | 82 | 55-133 | 13 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | 15 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 67-138 | 13 | 21 | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 7 | 29 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | 16 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 17 | 35 | |
| 1,1,1,2-Tetrachloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 16 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 14 | 32 | |
| Tetrachloroethene | 24.7 | 0.50 | ug/l | 25.0 | 2.06 | 91 | 67-131 | 16 | 31 | |
| Toluene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | 17 | 33 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 74-139 | 10 | 26 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 74-138 | 12 | 26 | |
| 1,1,1-Trichloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 64-138 | 16 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 63-132 | 15 | 35 | |
| Trichloroethene | 67.5 | 0.50 | ug/l | 25.0 | 49.5 | 72 | 66-132 | 12 | 29 | |
| Trichlorofluoromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 62-150 | 14 | 35 | |
| 1,2,3-Trichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98 | 68-130 | 15 | 32 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 15 | 31 | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | ND | 145 | 47-150 | 16 | 35 | *N1a* |
| Vinyl chloride | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 15 | 35 | |
| Xylenes, Total | 46.0 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | 15 | 31 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | 0.190 | 82 | 52-149 | 17 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0573 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2013 (13C0573-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.22* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.0* | | *83* | *27-143* | | | |
| **LCS Analyzed: 03/21/2013 (13C0573-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.20* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.5* | | *ug/l* | *20.0* | | *77* | *28-150* | | | |
| **LCS Dup Analyzed: 03/21/2013 (13C0573-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.93* | | *ug/l* | *20.0* | | *35* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.0* | | *ug/l* | *20.0* | | *90* | *28-150* | | | |

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/12/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0755 | Received: 03/12/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **R6** | LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

**TestAmerica Phoenix**

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0755

Sampled: 03/12/13
Received: 03/12/13

## Certification Summary

**TestAmerica Phoenix**

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM PWC 0755

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: [illegible]

Project/PO Number: [illegible]

Project Manager: [illegible]

Phone Number: [illegible]

Sampler: [illegible]

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | [illegible] | [illegible] | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | 5 | 3/12/13 | 0850 | [illegible] | X | X | | -01 | | | | | | |
| [illegible] | | | | 3/12/13 | [illegible] | | X | X | | -02 | | | | | | |
| [illegible] | | | | 3/12/13 | [illegible] | | X | X | | -03 | | | | | | |
| [illegible] | | | | 3/12/13 | 1195 | | X | X | | -04 | | | | | | |
| [illegible] | | [illegible] | 1 | 3/12/13 | [illegible] | [illegible] | X | | | -05 | | | | | | Trip Blank |
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| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [signature] EAM | 3/12/13 1537 | [signature] | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [signature] | Date/Time: 3/12/13 1513 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.9°C / 2.2°C

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/12/13
Received: 03/12/13
Revised: 04/29/13 07:35

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0756-01 | OU3-5M2-M-031213 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>N1a-Vinyl Acetate- The initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1b-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Revised report 042913 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0756-01 (OU3-5M2-M-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0558 | 0.50 | **0.91** | 1 | 3/14/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **1.1** | 1 | 3/14/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **5.8** | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **9.0** | 1 | 3/14/2013 | 3/15/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **14** | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0756-01 (OU3-5M2-M-031213 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **3.2** | 1 | 3/14/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **81** | 1 | 3/14/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *103 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0756-01 (OU3-5M2-M-031213 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0527 | 1.0 | **2.2** | 1.03 | 3/13/2013 | 3/20/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *26 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *82 %* | | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| Acetone | 33.5 | 20 | ug/l | 25.0 | | 134 | 38-150 | | | |
| Benzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Bromobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromochloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | | 113 | 69-129 | | | |
| Bromomethane | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 57-138 | | | |
| 2-Butanone (MEK) | 30.0 | 5.0 | ug/l | 25.0 | | 120 | 53-150 | | | |
| n-Butylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Carbon disulfide | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 64-145 | | | |
| Carbon tetrachloride | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-143 | | | |
| Chlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 66-131 | | | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Chloromethane | 29.8 | 1.0 | ug/l | 25.0 | | 119 | 56-129 | | | |
| 2-Chlorotoluene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 4-Chlorotoluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Dibromochloromethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 33.1 | 0.50 | ug/l | 25.0 | | 132 | 46-144 | | | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 66-139 | | | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | | | |
| 1,2-Dichloropropane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 2,2-Dichloropropane | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 69-139 | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| cis-1,3-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Ethylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 30.6 | 2.5 | ug/l | 25.0 | | 123 | 55-150 | | | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Isopropylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 88-141 | | | |
| p-Isopropyltoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Naphthalene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 78-143 | | | |
| n-Propylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Styrene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 42.8 | 2.0 | ug/l | 25.0 | | 171 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 50.2 | 1.0 | ug/l | 50.0 | | 100 | 70-130 | | | |
| Freon 113 | 22.8 | 2.0 | ug/l | 25.0 | | 91 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *107* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| Acetone | 22.4 | 20 | ug/l | 25.0 | | 90 | 38-150 | 40 | 35 | *R6* |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 11 | 20 | |
| Bromobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 13 | 20 | |
| Bromochloromethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 15 | 20 | |
| Bromodichloromethane | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 15 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 15 | 20 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 13 | 20 | |
| 2-Butanone (MEK) | 24.5 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| sec-Butylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 7 | 20 | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 7 | 20 | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 9 | 33 | |
| Carbon tetrachloride | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-143 | 8 | 20 | |
| Chlorobenzene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 10 | 20 | |
| Chloroethane | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 66-131 | 12 | 20 | |
| Chloroform | 21.0 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 14 | 20 | |
| Chloromethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | 9 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| 4-Chlorotoluene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| Dibromochloromethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 63-146 | 7 | 22 | |
| 1,2-Dibromoethane (EDB) | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 16 | 20 | |
| Dibromomethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 20 | 20 | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,3-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 10 | 20 | |
| Dichlorodifluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 12 | 20 | |
| 1,2-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 66-139 | 18 | 20 | |
| 1,1-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 63-131 | 10 | 22 | |
| cis-1,2-Dichloroethene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 14 | 20 | |
| trans-1,2-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 69-127 | 11 | 20 | |
| 1,2-Dichloropropane | 21.3 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 13 | 20 | |
| 1,3-Dichloropropane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 2,2-Dichloropropane | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 69-139 | 10 | 20 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | | 83 | 70-130 | 7 | 20 | |
| cis-1,3-Dichloropropene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 15 | 20 | |
| trans-1,3-Dichloropropene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 16 | 20 | |
| Ethylbenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | 4 | 20 | |
| 2-Hexanone | 25.7 | 2.5 | ug/l | 25.0 | | 103 | 55-150 | 18 | 35 | |
| Iodomethane | 24.0 | 2.5 | ug/l | 25.0 | | 96 | 70-130 | 12 | 20 | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | 6 | 20 | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 6 | 20 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | | 81 | 63-128 | 14 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 64-142 | 15 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 20.9 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 19 | 20 | |
| Naphthalene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 6 | 20 | |
| Styrene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 12 | 20 | |
| 1,1,1,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 11 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 13 | 20 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 6 | 20 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 11 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 10 | 20 | |
| 1,2,4-Trichlorobenzene | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 80-137 | 8 | 20 | |
| 1,1,1-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 71-131 | 10 | 20 | |
| 1,1,2-Trichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 16 | 20 | |
| Trichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 9 | 20 | |
| Trichlorofluoromethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 69-150 | 6 | 22 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | | 145 | 67-148 | 17 | 22 | *N1a* |
| Vinyl chloride | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 65-137 | 8 | 20 | |
| Xylenes, Total | 46.3 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 8 | 20 | |
| Freon 113 | 21.1 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | 8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 21.6 | 20 | ug/l | 25.0 | ND | 86 | 29-139 | | | |
| Benzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Bromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 64-132 | | | |
| Bromodichloromethane | 27.0 | 0.50 | ug/l | 25.0 | 0.580 | 106 | 63-138 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | ND | 114 | 60-128 | | | |
| Bromomethane | 28.4 | 1.0 | ug/l | 25.0 | ND | 113 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 69-140 | | | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | | | |
| tert-Butylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-135 | | | |
| Carbon disulfide | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 45-150 | | | |
| Carbon tetrachloride | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | | | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | | | |
| Chloroethane | 28.9 | 1.0 | ug/l | 25.0 | ND | 116 | 57-139 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | 1.15 | 101 | 63-131 | | | |
| Chloromethane | 29.6 | 1.0 | ug/l | 25.0 | ND | 118 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/l | 25.0 | 1.28 | 111 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dibromomethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 40-148 | | | |
| 1,1-Dichloroethane | 32.6 | 0.50 | ug/l | 25.0 | 6.59 | 104 | 62-130 | | | |
| 1,2-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 38.8 | 0.50 | ug/l | 25.0 | 10.3 | 114 | 57-137 | | | |
| cis-1,2-Dichloroethene | 37.6 | 0.50 | ug/l | 25.0 | 11.3 | 105 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-126 | | | |
| 1,3-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-129 | | | |
| 2,2-Dichloropropane | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 64-134 | | | |
| cis-1,3-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 58-136 | | | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-134 | | | |
| Hexachlorobutadiene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | | | |
| 2-Hexanone | 27.5 | 2.5 | ug/l | 25.0 | ND | 110 | 40-142 | | | |
| Iodomethane | 28.6 | 2.5 | ug/l | 25.0 | ND | 114 | 53-150 | | | |
| Isopropylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 80-146 | | | |
| p-Isopropyltoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-133 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | ND | 116 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | | | |
| Naphthalene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 67-146 | | | |
| n-Propylbenzene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 63-137 | | | |
| Tetrachloroethene | 29.1 | 0.50 | ug/l | 25.0 | 2.06 | 108 | 67-131 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 107 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 75.7 | 0.50 | ug/l | 25.0 | 49.5 | 105 | 66-132 | | | |
| Trichlorofluoromethane | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 66-137 | | | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | | | *N1, N1a* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 53.8 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 24.7 | 2.0 | ug/l | 25.0 | 0.190 | 98 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

**TestAmerica Phoenix**

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 17.7 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | 20 | 35 | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | 15 | 32 | |
| Bromobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 28 | |
| Bromochloromethane | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 64-132 | 12 | 35 | |
| Bromodichloromethane | 22.8 | 0.50 | ug/l | 25.0 | 0.580 | 89 | 63-138 | 17 | 31 | |
| Bromoform | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 60-128 | 16 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 23.2 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 12 | 35 | |
| n-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 69-140 | 14 | 32 | |
| sec-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 16 | 32 | |
| Carbon disulfide | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 45-150 | 17 | 35 | |
| Carbon tetrachloride | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 65-147 | 16 | 35 | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 16 | 30 | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | 17 | 35 | |
| Chloroform | 22.6 | 0.50 | ug/l | 25.0 | 1.15 | 86 | 63-131 | 15 | 33 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 15 | 35 | |
| 2-Chlorotoluene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 15 | 29 | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-134 | 14 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.5 | 5.0 | ug/l | 25.0 | 1.28 | 97 | 53-145 | 13 | 35 | |
| 1,2-Dibromoethane (EDB) | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 14 | 33 | |
| Dibromomethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 66-136 | 14 | 35 | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 27 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 15 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 14 | 26 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | ND | 119 | 40-148 | 13 | 35 | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | 6.59 | 87 | 62-130 | 14 | 34 | |
| 1,2-Dichloroethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 54-147 | 12 | 35 | |
| 1,1-Dichloroethene | 33.3 | 0.50 | ug/l | 25.0 | 10.3 | 92 | 57-137 | 15 | 35 | |
| cis-1,2-Dichloroethene | 33.2 | 0.50 | ug/l | 25.0 | 11.3 | 87 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 62-131 | 16 | 35 | |
| 1,2-Dichloropropane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-126 | 15 | 32 | |
| 1,3-Dichloropropane | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-129 | 15 | 33 | |
| 2,2-Dichloropropane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 60-146 | 11 | 35 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-134 | 17 | 34 | |
| cis-1,3-Dichloropropene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 63-135 | 14 | 35 | |
| trans-1,3-Dichloropropene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 58-136 | 15 | 35 | |
| Ethylbenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 74-134 | 15 | 32 | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | 13 | 32 | |
| 2-Hexanone | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 40-142 | 14 | 35 | |
| Iodomethane | 24.7 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 15 | 35 | |
| Isopropylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 16 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 14 | 32 | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | ND | 82 | 55-133 | 13 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | 15 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 67-138 | 13 | 21 | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 7 | 29 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | 16 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 17 | 35 | |
| 1,1,1,2-Tetrachloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 16 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 14 | 32 | |
| Tetrachloroethene | 24.7 | 0.50 | ug/l | 25.0 | 2.06 | 91 | 67-131 | 16 | 31 | |
| Toluene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | 17 | 33 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 74-139 | 10 | 26 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 74-138 | 12 | 26 | |
| 1,1,1-Trichloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 64-138 | 16 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 63-132 | 15 | 35 | |
| Trichloroethene | 67.5 | 0.50 | ug/l | 25.0 | 49.5 | 72 | 66-132 | 12 | 29 | |
| Trichlorofluoromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 62-150 | 14 | 35 | |
| 1,2,3-Trichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98 | 68-130 | 15 | 32 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 15 | 31 | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | ND | 145 | 47-150 | 16 | 35 | *N1a* |
| Vinyl chloride | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 15 | 35 | |
| Xylenes, Total | 46.0 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | 15 | 31 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | 0.190 | 82 | 52-149 | 17 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0527 Extracted: 03/13/13** | | | | | | | | | | |
| **Blank Analyzed: 03/19/2013 (13C0527-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *4.63* | | *ug/l* | *20.0* | | *23* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *13.6* | | *ug/l* | *20.0* | | *68* | *27-143* | | | |
| **LCS Analyzed: 03/19/2013 (13C0527-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.49* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **LCS Dup Analyzed: 03/19/2013 (13C0527-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 20.8 | 1.0 | ug/l | 20.0 | | 104 | 85-116 | 5 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.45* | | *ug/l* | *20.0* | | *27* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *14.3* | | *ug/l* | *20.0* | | *72* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/19/2013 (13C0527-MS1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 67.8 | 1.0 | ug/l | 20.4 | 3.03 | 317 | 65-138 | | | *M1* |
| *Surrogate: 1,4-Dioxane-d8* | *5.89* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *20.4* | | *78* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/20/2013 (13C0527-MSD1)** | | | | | **Source: PWC0675-01** | | | | | |
| 1,4-Dioxane | 25.3 | 1.0 | ug/l | 20.4 | 3.03 | 109 | 65-138 | 91 | 20 | *N1b* |
| *Surrogate: 1,4-Dioxane-d8* | *5.99* | | *ug/l* | *20.4* | | *29* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.4* | | *77* | *27-143* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **M1** | Matrix spike recovery was high; the associated blank spike recovery was acceptable. |
| **N1** | See case narrative. |
| **R6** | LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0756

Sampled: 03/12/13
Received: 03/12/13

## Certification Summary

**TestAmerica Phoenix**

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM PWC 0756 - 01

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[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: [illegible]

Project/PO Number: [illegible]

Project Manager: [illegible]

Phone Number: [illegible]

Sampler: [illegible]

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | [illegible] | [illegible] | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | 5 | 3/12/13 | [illegible] | [illegible] | X | X | | | | | | | | Level IV |
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Analysis Required

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [illegible] EAM | 3/12/13 1537 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [illegible] | Date/Time: 3/12/13 1517 | Sample Integrity: (Check) intact ✓ on ice ✓ |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.9/2.2c

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/13/13
Received: 03/13/13
Revised: 04/29/13 07:56

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0896-01 | OU3-14M-M-031313 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1a-Vinyl Acetate-The second source initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 042913 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0896-01 (OU3-14M-M-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **0.79** | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0896-01 (OU3-14M-M-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **0.54** | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **1.4** | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *105 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0896-01 (OU3-14M-M-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *30 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *79 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| Acetone | 33.5 | 20 | ug/l | 25.0 | | 134 | 38-150 | | | |
| Benzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Bromobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromochloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | | 113 | 69-129 | | | |
| Bromomethane | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 57-138 | | | |
| 2-Butanone (MEK) | 30.0 | 5.0 | ug/l | 25.0 | | 120 | 53-150 | | | |
| n-Butylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Carbon disulfide | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 64-145 | | | |
| Carbon tetrachloride | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-143 | | | |
| Chlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 66-131 | | | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Chloromethane | 29.8 | 1.0 | ug/l | 25.0 | | 119 | 56-129 | | | |
| 2-Chlorotoluene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 4-Chlorotoluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Dibromochloromethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 33.1 | 0.50 | ug/l | 25.0 | | 132 | 46-144 | | | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 66-139 | | | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | | | |
| 1,2-Dichloropropane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 2,2-Dichloropropane | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 69-139 | | | |

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| cis-1,3-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Ethylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 30.6 | 2.5 | ug/l | 25.0 | | 123 | 55-150 | | | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Isopropylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 88-141 | | | |
| p-Isopropyltoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Naphthalene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 78-143 | | | |
| n-Propylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Styrene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 42.8 | 2.0 | ug/l | 25.0 | | 171 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 50.2 | 1.0 | ug/l | 50.0 | | 100 | 70-130 | | | |
| Freon 113 | 22.8 | 2.0 | ug/l | 25.0 | | 91 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *107* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| Acetone | 22.4 | 20 | ug/l | 25.0 | | 90 | 38-150 | 40 | 35 | *R6* |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 11 | 20 | |
| Bromobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 13 | 20 | |
| Bromochloromethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 15 | 20 | |
| Bromodichloromethane | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 15 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 15 | 20 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 13 | 20 | |
| 2-Butanone (MEK) | 24.5 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| sec-Butylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 7 | 20 | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 7 | 20 | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 9 | 33 | |
| Carbon tetrachloride | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-143 | 8 | 20 | |
| Chlorobenzene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 10 | 20 | |
| Chloroethane | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 66-131 | 12 | 20 | |
| Chloroform | 21.0 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 14 | 20 | |
| Chloromethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | 9 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| 4-Chlorotoluene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| Dibromochloromethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 63-146 | 7 | 22 | |
| 1,2-Dibromoethane (EDB) | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 16 | 20 | |
| Dibromomethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 20 | 20 | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,3-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 10 | 20 | |
| Dichlorodifluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 12 | 20 | |
| 1,2-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 66-139 | 18 | 20 | |
| 1,1-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 63-131 | 10 | 22 | |
| cis-1,2-Dichloroethene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 14 | 20 | |
| trans-1,2-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 69-127 | 11 | 20 | |
| 1,2-Dichloropropane | 21.3 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 13 | 20 | |
| 1,3-Dichloropropane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 2,2-Dichloropropane | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 69-139 | 10 | 20 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | | 83 | 70-130 | 7 | 20 | |
| cis-1,3-Dichloropropene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 15 | 20 | |
| trans-1,3-Dichloropropene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 16 | 20 | |
| Ethylbenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | 4 | 20 | |
| 2-Hexanone | 25.7 | 2.5 | ug/l | 25.0 | | 103 | 55-150 | 18 | 35 | |
| Iodomethane | 24.0 | 2.5 | ug/l | 25.0 | | 96 | 70-130 | 12 | 20 | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | 6 | 20 | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 6 | 20 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | | 81 | 63-128 | 14 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 64-142 | 15 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 20.9 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 19 | 20 | |
| Naphthalene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 6 | 20 | |
| Styrene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 12 | 20 | |
| 1,1,1,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 11 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 13 | 20 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 6 | 20 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 11 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 10 | 20 | |
| 1,2,4-Trichlorobenzene | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 80-137 | 8 | 20 | |
| 1,1,1-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 71-131 | 10 | 20 | |
| 1,1,2-Trichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 16 | 20 | |
| Trichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 9 | 20 | |
| Trichlorofluoromethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 69-150 | 6 | 22 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | | 145 | 67-148 | 17 | 22 | *N1a* |
| Vinyl chloride | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 65-137 | 8 | 20 | |
| Xylenes, Total | 46.3 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 8 | 20 | |
| Freon 113 | 21.1 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | 8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 21.6 | 20 | ug/l | 25.0 | ND | 86 | 29-139 | | | |
| Benzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Bromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 64-132 | | | |
| Bromodichloromethane | 27.0 | 0.50 | ug/l | 25.0 | 0.580 | 106 | 63-138 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | ND | 114 | 60-128 | | | |
| Bromomethane | 28.4 | 1.0 | ug/l | 25.0 | ND | 113 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 69-140 | | | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | | | |
| tert-Butylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-135 | | | |
| Carbon disulfide | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 45-150 | | | |
| Carbon tetrachloride | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | | | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | | | |
| Chloroethane | 28.9 | 1.0 | ug/l | 25.0 | ND | 116 | 57-139 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | 1.15 | 101 | 63-131 | | | |
| Chloromethane | 29.6 | 1.0 | ug/l | 25.0 | ND | 118 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/l | 25.0 | 1.28 | 111 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dibromomethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 40-148 | | | |
| 1,1-Dichloroethane | 32.6 | 0.50 | ug/l | 25.0 | 6.59 | 104 | 62-130 | | | |
| 1,2-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 38.8 | 0.50 | ug/l | 25.0 | 10.3 | 114 | 57-137 | | | |
| cis-1,2-Dichloroethene | 37.6 | 0.50 | ug/l | 25.0 | 11.3 | 105 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-126 | | | |
| 1,3-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-129 | | | |
| 2,2-Dichloropropane | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 60-146 | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 64-134 | | | |
| cis-1,3-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 58-136 | | | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-134 | | | |
| Hexachlorobutadiene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | | | |
| 2-Hexanone | 27.5 | 2.5 | ug/l | 25.0 | ND | 110 | 40-142 | | | |
| Iodomethane | 28.6 | 2.5 | ug/l | 25.0 | ND | 114 | 53-150 | | | |
| Isopropylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 80-146 | | | |
| p-Isopropyltoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-133 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | ND | 116 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | | | |
| Naphthalene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 67-146 | | | |
| n-Propylbenzene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 63-137 | | | |
| Tetrachloroethene | 29.1 | 0.50 | ug/l | 25.0 | 2.06 | 108 | 67-131 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 107 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 75.7 | 0.50 | ug/l | 25.0 | 49.5 | 105 | 66-132 | | | |
| Trichlorofluoromethane | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 66-137 | | | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | | | *N1, N1a* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 53.8 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 24.7 | 2.0 | ug/l | 25.0 | 0.190 | 98 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 17.7 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | 20 | 35 | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | 15 | 32 | |
| Bromobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 28 | |
| Bromochloromethane | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 64-132 | 12 | 35 | |
| Bromodichloromethane | 22.8 | 0.50 | ug/l | 25.0 | 0.580 | 89 | 63-138 | 17 | 31 | |
| Bromoform | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 60-128 | 16 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 23.2 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 12 | 35 | |
| n-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 69-140 | 14 | 32 | |
| sec-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 16 | 32 | |
| Carbon disulfide | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 45-150 | 17 | 35 | |
| Carbon tetrachloride | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 65-147 | 16 | 35 | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 16 | 30 | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | 17 | 35 | |
| Chloroform | 22.6 | 0.50 | ug/l | 25.0 | 1.15 | 86 | 63-131 | 15 | 33 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 15 | 35 | |
| 2-Chlorotoluene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 15 | 29 | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-134 | 14 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.5 | 5.0 | ug/l | 25.0 | 1.28 | 97 | 53-145 | 13 | 35 | |
| 1,2-Dibromoethane (EDB) | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 14 | 33 | |
| Dibromomethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 66-136 | 14 | 35 | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 27 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 15 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 14 | 26 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | ND | 119 | 40-148 | 13 | 35 | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | 6.59 | 87 | 62-130 | 14 | 34 | |
| 1,2-Dichloroethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 54-147 | 12 | 35 | |
| 1,1-Dichloroethene | 33.3 | 0.50 | ug/l | 25.0 | 10.3 | 92 | 57-137 | 15 | 35 | |
| cis-1,2-Dichloroethene | 33.2 | 0.50 | ug/l | 25.0 | 11.3 | 87 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 62-131 | 16 | 35 | |
| 1,2-Dichloropropane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-126 | 15 | 32 | |
| 1,3-Dichloropropane | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-129 | 15 | 33 | |
| 2,2-Dichloropropane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 60-146 | 11 | 35 | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-134 | 17 | 34 | |
| cis-1,3-Dichloropropene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 63-135 | 14 | 35 | |
| trans-1,3-Dichloropropene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 58-136 | 15 | 35 | |
| Ethylbenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 74-134 | 15 | 32 | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | 13 | 32 | |
| 2-Hexanone | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 40-142 | 14 | 35 | |
| Iodomethane | 24.7 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 15 | 35 | |
| Isopropylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 16 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 14 | 32 | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | ND | 82 | 55-133 | 13 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | 15 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 67-138 | 13 | 21 | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 7 | 29 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | 16 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 17 | 35 | |
| 1,1,1,2-Tetrachloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 16 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 14 | 32 | |
| Tetrachloroethene | 24.7 | 0.50 | ug/l | 25.0 | 2.06 | 91 | 67-131 | 16 | 31 | |
| Toluene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | 17 | 33 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 74-139 | 10 | 26 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 74-138 | 12 | 26 | |
| 1,1,1-Trichloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 64-138 | 16 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 63-132 | 15 | 35 | |
| Trichloroethene | 67.5 | 0.50 | ug/l | 25.0 | 49.5 | 72 | 66-132 | 12 | 29 | |
| Trichlorofluoromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 62-150 | 14 | 35 | |
| 1,2,3-Trichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98 | 68-130 | 15 | 32 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 15 | 31 | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | ND | 145 | 47-150 | 16 | 35 | *N1a* |
| Vinyl chloride | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 15 | 35 | |
| Xylenes, Total | 46.0 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | 15 | 31 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | 0.190 | 82 | 52-149 | 17 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0573 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2013 (13C0573-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.22* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.0* | | *83* | *27-143* | | | |
| **LCS Analyzed: 03/21/2013 (13C0573-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.20* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.5* | | *ug/l* | *20.0* | | *77* | *28-150* | | | |
| **LCS Dup Analyzed: 03/21/2013 (13C0573-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.93* | | *ug/l* | *20.0* | | *35* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.0* | | *ug/l* | *20.0* | | *90* | *28-150* | | | |

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/13/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0896 | Received: 03/13/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **R6** | LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0896

Sampled: 03/13/13
Received: 03/13/13

## Certification Summary

**TestAmerica Phoenix**

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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# Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

PWC0896

TAL-4124-280 (0508)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| ERM | Jason.Miller@erm.com | 3/13/13 | 170057 |
| **Address** | **Telephone Number (Area Code)/Fax Number** | **Lab Number** | **Page 1 of 1** |
| 7272 E Indian School Rd #100 | 480-998-0101 | | |

| City | State | Zip Code | Site Contact | Lab Contact |
|---|---|---|---|---|
| Scottsdale | AZ | 85251 | [illegible] | Kyle |

| Project Name and Location (State) | Carrier/Waybill Number |
|---|---|
| OU3 AZ | |

Contract/Purchase Order/Quote No.: 0096498

Analysis (Attach list if more space is needed): 1,4-Dioxane; 1,4-Dioxane-D8

Special Instructions/ Conditions of Receipt

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Air | Aqueous | Sed. | Soil | | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | | 1,4-Dioxane | 1,4-Dioxane-D8 | | | | | | | | | | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OU3-14MW-03-0313 | 3/13/13 | 1325 | | X | | | | 2 | | | 3 | | | | X | X | | | | | | | | -01 | | Level IV |

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

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Normal

QC Requirements (Specify)

| Relinquished By | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|
| 1. [signature] ERM | 3/13/13 | 1600 | 1. | | |
| 2. | | | 2. | | |
| 3. | | | 3. [signature] | 3/13/13 | 1600 |

Comments

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2.1°C, 1.9°C

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/13/13
Received: 03/13/13
Revised: 04/29/13 08:36

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC0898-01 | OU3-19M-M-031313 | Water |
| PWC0898-02 | EW-20-S-031313 | Water |
| PWC0898-03 | GW-EB8-031313 | Water |
| PWC0898-04 | OU3-14D-D-031313 | Water |
| PWC0898-05 | OU3-1M-M-031313 | Water |
| PWC0898-06 | GW-EB9-031313 | Water |
| PWC0898-07 | GW-L1-7-031313 | Water |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1a-Vinyl Acetate-The second source initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.<br>N1/N1a on 13C0599 MS and MSD -The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised 042913 due to changes in QAPP. |

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-01 (OU3-19M-M-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0558 | 0.50 | **0.58** | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **1.2** | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **6.6** | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **10** | 1 | 3/14/2013 | 3/14/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **11** | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-01 (OU3-19M-M-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **2.1** | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **50** | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *105 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-02 (EW-20-S-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **1.4** | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0558 | 0.50 | **2.0** | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **2.8** | 1 | 3/14/2013 | 3/14/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0558 | 0.50 | **4.4** | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-02 (EW-20-S-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0558 | 0.50 | **1.0** | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0558 | 0.50 | **24** | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *103 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-03 (GW-EB8-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0558 | 0.50 | **2.1** | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Chloroform** | EPA 8260B | 13C0558 | 0.50 | **2.0** | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0558 | 0.50 | **2.3** | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-03 (GW-EB8-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Trichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *102 %* | | | | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-04 (OU3-14D-D-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| **2-Butanone (MEK)** | EPA 8260B | 13C0558 | 5.0 | **6.0** | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroform | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-04 (OU3-14D-D-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Trichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *104 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-05 (OU3-1M-M-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0599 | 20 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0599 | 0.50 | **0.58** | 1 | 3/15/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-05 (OU3-1M-M-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0599 | 0.50 | **2.3** | 1 | 3/15/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *90 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-06 (GW-EB9-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0599 | 10 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Benzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromochloromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0599 | 0.50 | **2.1** | 1 | 3/15/2013 | 3/15/2013 | |
| Bromoform | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Bromomethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Carbon disulfide | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Chlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Chloroethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Chloroform** | EPA 8260B | 13C0599 | 0.50 | **1.8** | 1 | 3/15/2013 | 3/15/2013 | |
| Chloromethane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0599 | 0.50 | **2.4** | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dibromomethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Ethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-06 (GW-EB9-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0599 | 5.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Iodomethane | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Methylene Chloride | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Naphthalene | EPA 8260B | 13C0599 | 2.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Styrene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Toluene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0599 | 1.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Trichloroethene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | L3, N1 |
| Vinyl chloride | EPA 8260B | 13C0599 | 0.50 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Xylenes, Total | EPA 8260B | 13C0599 | 1.5 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| Freon 113 | EPA 8260B | 13C0599 | 2.0 | ND | 1 | 3/15/2013 | 3/15/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Kylie Emily For Vic Nielsen
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-07 (GW-L1-7-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0558 | 20 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Benzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromoform | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Bromomethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon disulfide | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloroform | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Chloromethane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dibromomethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Ethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-07 (GW-L1-7-031313 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Iodomethane | EPA 8260B | 13C0558 | 2.5 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methylene Chloride | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Naphthalene | EPA 8260B | 13C0558 | 5.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Styrene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Toluene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Trichloroethene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | L3, N1a |
| Vinyl chloride | EPA 8260B | 13C0558 | 0.50 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Xylenes, Total | EPA 8260B | 13C0558 | 1.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| Freon 113 | EPA 8260B | 13C0558 | 2.0 | ND | 1 | 3/14/2013 | 3/14/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *103 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC0898-01 (OU3-19M-M-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0573 | 1.0 | **3.0** | 1.05 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *25 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *71 %* | | | | |
| **Sample ID: PWC0898-02 (EW-20-S-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0573 | 1.0 | **1.2** | 1.08 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *30 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *85 %* | | | | |
| **Sample ID: PWC0898-03 (GW-EB8-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *24 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *85 %* | | | | |
| **Sample ID: PWC0898-04 (OU3-14D-D-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *89 %* | | | | |
| **Sample ID: PWC0898-05 (OU3-1M-M-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/21/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *24 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *79 %* | | | | |
| **Sample ID: PWC0898-06 (GW-EB9-031313 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.1 | ND | 1.15 | 3/14/2013 | 3/22/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *24 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *79 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/14/2013 (13C0558-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | *N1a* |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| Acetone | 33.5 | 20 | ug/l | 25.0 | | 134 | 38-150 | | | |
| Benzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Bromobenzene | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Bromochloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Bromoform | 28.3 | 1.0 | ug/l | 25.0 | | 113 | 69-129 | | | |
| Bromomethane | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 57-138 | | | |
| 2-Butanone (MEK) | 30.0 | 5.0 | ug/l | 25.0 | | 120 | 53-150 | | | |
| n-Butylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Carbon disulfide | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 64-145 | | | |
| Carbon tetrachloride | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-143 | | | |
| Chlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Chloroethane | 27.6 | 1.0 | ug/l | 25.0 | | 111 | 66-131 | | | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Chloromethane | 29.8 | 1.0 | ug/l | 25.0 | | 119 | 56-129 | | | |
| 2-Chlorotoluene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 4-Chlorotoluene | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Dibromochloromethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 63-146 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Dibromomethane | 27.2 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,2-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,3-Dichlorobenzene | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,4-Dichlorobenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Dichlorodifluoromethane | 33.1 | 0.50 | ug/l | 25.0 | | 132 | 46-144 | | | |
| 1,1-Dichloroethane | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 66-139 | | | |
| 1,1-Dichloroethene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 63-131 | | | |
| cis-1,2-Dichloroethene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 69-127 | | | |
| 1,2-Dichloropropane | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichloropropane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 2,2-Dichloropropane | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 69-139 | | | |

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Analyzed: 03/14/2013 (13C0558-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| cis-1,3-Dichloropropene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.1 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Ethylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 76-145 | | | |
| 2-Hexanone | 30.6 | 2.5 | ug/l | 25.0 | | 123 | 55-150 | | | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | | | |
| Isopropylbenzene | 28.9 | 0.50 | ug/l | 25.0 | | 116 | 88-141 | | | |
| p-Isopropyltoluene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | | 93 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Naphthalene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 78-143 | | | |
| n-Propylbenzene | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| Styrene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 29.4 | 0.50 | ug/l | 25.0 | | 117 | 70-130 | | | |
| Tetrachloroethene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 71-131 | | | |
| 1,1,2-Trichloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 42.8 | 2.0 | ug/l | 25.0 | | 171 | 67-148 | | | *L3, N1a* |
| Vinyl chloride | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 65-137 | | | |
| Xylenes, Total | 50.2 | 1.0 | ug/l | 50.0 | | 100 | 70-130 | | | |
| Freon 113 | 22.8 | 2.0 | ug/l | 25.0 | | 91 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *107* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| Acetone | 22.4 | 20 | ug/l | 25.0 | | 90 | 38-150 | 40 | 35 | *R6* |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 11 | 20 | |
| Bromobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 13 | 20 | |
| Bromochloromethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 15 | 20 | |
| Bromodichloromethane | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 15 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 15 | 20 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 57-138 | 13 | 20 | |
| 2-Butanone (MEK) | 24.5 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | 20 | 35 | |
| n-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| sec-Butylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 7 | 20 | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 7 | 20 | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 64-145 | 9 | 33 | |
| Carbon tetrachloride | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-143 | 8 | 20 | |
| Chlorobenzene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 10 | 20 | |
| Chloroethane | 24.6 | 1.0 | ug/l | 25.0 | | 99 | 66-131 | 12 | 20 | |
| Chloroform | 21.0 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 14 | 20 | |
| Chloromethane | 27.1 | 1.0 | ug/l | 25.0 | | 109 | 56-129 | 9 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| 4-Chlorotoluene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 9 | 20 | |
| Dibromochloromethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 63-146 | 7 | 22 | |
| 1,2-Dibromoethane (EDB) | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 16 | 20 | |
| Dibromomethane | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 20 | 20 | |
| 1,2-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,3-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 10 | 20 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 10 | 20 | |
| Dichlorodifluoromethane | 30.9 | 0.50 | ug/l | 25.0 | | 124 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 12 | 20 | |
| 1,2-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 66-139 | 18 | 20 | |
| 1,1-Dichloroethene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 63-131 | 10 | 22 | |
| cis-1,2-Dichloroethene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 14 | 20 | |
| trans-1,2-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 69-127 | 11 | 20 | |
| 1,2-Dichloropropane | 21.3 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 13 | 20 | |
| 1,3-Dichloropropane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 14 | 20 | |
| 2,2-Dichloropropane | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 69-139 | 10 | 20 | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/14/2013 (13C0558-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | | 83 | 70-130 | 7 | 20 | |
| cis-1,3-Dichloropropene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 15 | 20 | |
| trans-1,3-Dichloropropene | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 16 | 20 | |
| Ethylbenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | 4 | 20 | |
| 2-Hexanone | 25.7 | 2.5 | ug/l | 25.0 | | 103 | 55-150 | 18 | 35 | |
| Iodomethane | 24.0 | 2.5 | ug/l | 25.0 | | 96 | 70-130 | 12 | 20 | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | 6 | 20 | |
| p-Isopropyltoluene | 24.1 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 6 | 20 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | | 81 | 63-128 | 14 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 64-142 | 15 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 20.9 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 19 | 20 | |
| Naphthalene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 78-143 | 8 | 20 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 6 | 20 | |
| Styrene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 12 | 20 | |
| 1,1,1,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 11 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 13 | 20 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 6 | 20 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 11 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 10 | 20 | |
| 1,2,4-Trichlorobenzene | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 80-137 | 8 | 20 | |
| 1,1,1-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 71-131 | 10 | 20 | |
| 1,1,2-Trichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 16 | 20 | |
| Trichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 9 | 20 | |
| Trichlorofluoromethane | 29.1 | 0.50 | ug/l | 25.0 | | 116 | 69-150 | 6 | 22 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 10 | 20 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 8 | 20 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | | 145 | 67-148 | 17 | 22 | *N1a* |
| Vinyl chloride | 26.5 | 0.50 | ug/l | 25.0 | | 106 | 65-137 | 8 | 20 | |
| Xylenes, Total | 46.3 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 8 | 20 | |
| Freon 113 | 21.1 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | 8 | 27 | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 21.6 | 20 | ug/l | 25.0 | ND | 86 | 29-139 | | | |
| Benzene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 68-131 | | | |
| Bromobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Bromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 64-132 | | | |
| Bromodichloromethane | 27.0 | 0.50 | ug/l | 25.0 | 0.580 | 106 | 63-138 | | | |
| Bromoform | 28.4 | 1.0 | ug/l | 25.0 | ND | 114 | 60-128 | | | |
| Bromomethane | 28.4 | 1.0 | ug/l | 25.0 | ND | 113 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 69-140 | | | |
| sec-Butylbenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 72-136 | | | |
| tert-Butylbenzene | 29.0 | 0.50 | ug/l | 25.0 | ND | 116 | 74-135 | | | |
| Carbon disulfide | 26.7 | 1.0 | ug/l | 25.0 | ND | 107 | 45-150 | | | |
| Carbon tetrachloride | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | | | |
| Chlorobenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 70-130 | | | |
| Chloroethane | 28.9 | 1.0 | ug/l | 25.0 | ND | 116 | 57-139 | | | |
| Chloroform | 26.3 | 0.50 | ug/l | 25.0 | 1.15 | 101 | 63-131 | | | |
| Chloromethane | 29.6 | 1.0 | ug/l | 25.0 | ND | 118 | 47-134 | | | |
| 2-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 71-131 | | | |
| 4-Chlorotoluene | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 70-130 | | | |
| Dibromochloromethane | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/l | 25.0 | 1.28 | 111 | 53-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Dibromomethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 66-136 | | | |
| 1,2-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 70-130 | | | |
| Dichlorodifluoromethane | 34.1 | 0.50 | ug/l | 25.0 | ND | 136 | 40-148 | | | |
| 1,1-Dichloroethane | 32.6 | 0.50 | ug/l | 25.0 | 6.59 | 104 | 62-130 | | | |
| 1,2-Dichloroethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 54-147 | | | |
| 1,1-Dichloroethene | 38.8 | 0.50 | ug/l | 25.0 | 10.3 | 114 | 57-137 | | | |
| cis-1,2-Dichloroethene | 37.6 | 0.50 | ug/l | 25.0 | 11.3 | 105 | 65-127 | | | |
| trans-1,2-Dichloroethene | 27.2 | 0.50 | ug/l | 25.0 | ND | 109 | 62-131 | | | |
| 1,2-Dichloropropane | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 68-126 | | | |
| 1,3-Dichloropropane | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 68-129 | | | |
| 2,2-Dichloropropane | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 60-146 | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/14/2013 (13C0558-MS1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 64-134 | | | |
| cis-1,3-Dichloropropene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 63-135 | | | |
| trans-1,3-Dichloropropene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 58-136 | | | |
| Ethylbenzene | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 74-134 | | | |
| Hexachlorobutadiene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 69-150 | | | |
| 2-Hexanone | 27.5 | 2.5 | ug/l | 25.0 | ND | 110 | 40-142 | | | |
| Iodomethane | 28.6 | 2.5 | ug/l | 25.0 | ND | 114 | 53-150 | | | |
| Isopropylbenzene | 31.4 | 0.50 | ug/l | 25.0 | ND | 126 | 80-146 | | | |
| p-Isopropyltoluene | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 70-133 | | | |
| Methylene Chloride | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | ND | 116 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 67-138 | | | |
| Naphthalene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 67-146 | | | |
| n-Propylbenzene | 29.7 | 0.50 | ug/l | 25.0 | ND | 119 | 74-140 | | | |
| Styrene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 63-137 | | | |
| Tetrachloroethene | 29.1 | 0.50 | ug/l | 25.0 | 2.06 | 108 | 67-131 | | | |
| Toluene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 26.9 | 1.0 | ug/l | 25.0 | ND | 107 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.5 | 0.50 | ug/l | 25.0 | ND | 110 | 64-138 | | | |
| 1,1,2-Trichloroethane | 27.0 | 0.50 | ug/l | 25.0 | ND | 108 | 63-132 | | | |
| Trichloroethene | 75.7 | 0.50 | ug/l | 25.0 | 49.5 | 105 | 66-132 | | | |
| Trichlorofluoromethane | 33.2 | 0.50 | ug/l | 25.0 | ND | 133 | 62-150 | | | |
| 1,2,3-Trichloropropane | 28.5 | 2.0 | ug/l | 25.0 | ND | 114 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 28.5 | 0.50 | ug/l | 25.0 | ND | 114 | 66-137 | | | |
| Vinyl Acetate | 42.6 | 2.0 | ug/l | 25.0 | ND | 171 | 47-150 | | | *N1, N1a* |
| Vinyl chloride | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 55-146 | | | |
| Xylenes, Total | 53.8 | 1.0 | ug/l | 50.0 | ND | 108 | 68-131 | | | |
| Freon 113 | 24.7 | 2.0 | ug/l | 25.0 | 0.190 | 98 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| Acetone | 17.7 | 20 | ug/l | 25.0 | ND | 71 | 29-139 | 20 | 35 | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | 15 | 32 | |
| Bromobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 28 | |
| Bromochloromethane | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 64-132 | 12 | 35 | |
| Bromodichloromethane | 22.8 | 0.50 | ug/l | 25.0 | 0.580 | 89 | 63-138 | 17 | 31 | |
| Bromoform | 24.1 | 1.0 | ug/l | 25.0 | ND | 97 | 60-128 | 16 | 31 | |
| Bromomethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 15 | 35 | |
| 2-Butanone (MEK) | 23.2 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 12 | 35 | |
| n-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 69-140 | 14 | 32 | |
| sec-Butylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 72-136 | 14 | 33 | |
| tert-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 16 | 32 | |
| Carbon disulfide | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 45-150 | 17 | 35 | |
| Carbon tetrachloride | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 65-147 | 16 | 35 | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 16 | 30 | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | 17 | 35 | |
| Chloroform | 22.6 | 0.50 | ug/l | 25.0 | 1.15 | 86 | 63-131 | 15 | 33 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 15 | 35 | |
| 2-Chlorotoluene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 15 | 29 | |
| 4-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | 14 | 28 | |
| Dibromochloromethane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-134 | 14 | 33 | |
| 1,2-Dibromo-3-chloropropane | 25.5 | 5.0 | ug/l | 25.0 | 1.28 | 97 | 53-145 | 13 | 35 | |
| 1,2-Dibromoethane (EDB) | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 14 | 33 | |
| Dibromomethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 66-136 | 14 | 35 | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 13 | 27 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | 15 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 14 | 26 | |
| Dichlorodifluoromethane | 29.8 | 0.50 | ug/l | 25.0 | ND | 119 | 40-148 | 13 | 35 | |
| 1,1-Dichloroethane | 28.2 | 0.50 | ug/l | 25.0 | 6.59 | 87 | 62-130 | 14 | 34 | |
| 1,2-Dichloroethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 54-147 | 12 | 35 | |
| 1,1-Dichloroethene | 33.3 | 0.50 | ug/l | 25.0 | 10.3 | 92 | 57-137 | 15 | 35 | |
| cis-1,2-Dichloroethene | 33.2 | 0.50 | ug/l | 25.0 | 11.3 | 87 | 65-127 | 12 | 34 | |
| trans-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 62-131 | 16 | 35 | |
| 1,2-Dichloropropane | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-126 | 15 | 32 | |
| 1,3-Dichloropropane | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 68-129 | 15 | 33 | |
| 2,2-Dichloropropane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 60-146 | 11 | 35 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0558 Extracted: 03/14/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/14/2013 (13C0558-MSD1)** | | | | | **Source: PWC0898-01** | | | | | |
| 1,1-Dichloropropene | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-134 | 17 | 34 | |
| cis-1,3-Dichloropropene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 63-135 | 14 | 35 | |
| trans-1,3-Dichloropropene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 58-136 | 15 | 35 | |
| Ethylbenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 74-134 | 15 | 32 | |
| Hexachlorobutadiene | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 69-150 | 13 | 32 | |
| 2-Hexanone | 23.9 | 2.5 | ug/l | 25.0 | ND | 95 | 40-142 | 14 | 35 | |
| Iodomethane | 24.7 | 2.5 | ug/l | 25.0 | ND | 99 | 53-150 | 15 | 35 | |
| Isopropylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 16 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 14 | 32 | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | ND | 82 | 55-133 | 13 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 52-143 | 15 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 67-138 | 13 | 21 | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 7 | 29 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-140 | 16 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 17 | 35 | |
| 1,1,1,2-Tetrachloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 16 | 30 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 63-137 | 14 | 32 | |
| Tetrachloroethene | 24.7 | 0.50 | ug/l | 25.0 | 2.06 | 91 | 67-131 | 16 | 31 | |
| Toluene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | 17 | 33 | |
| 1,2,3-Trichlorobenzene | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 74-139 | 10 | 26 | |
| 1,2,4-Trichlorobenzene | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 74-138 | 12 | 26 | |
| 1,1,1-Trichloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 64-138 | 16 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 63-132 | 15 | 35 | |
| Trichloroethene | 67.5 | 0.50 | ug/l | 25.0 | 49.5 | 72 | 66-132 | 12 | 29 | |
| Trichlorofluoromethane | 28.8 | 0.50 | ug/l | 25.0 | ND | 115 | 62-150 | 14 | 35 | |
| 1,2,3-Trichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98 | 68-130 | 15 | 32 | |
| 1,2,4-Trimethylbenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 15 | 31 | |
| 1,3,5-Trimethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-137 | 15 | 30 | |
| Vinyl Acetate | 36.2 | 2.0 | ug/l | 25.0 | ND | 145 | 47-150 | 16 | 35 | *N1a* |
| Vinyl chloride | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 15 | 35 | |
| Xylenes, Total | 46.0 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | 15 | 31 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | 0.190 | 82 | 52-149 | 17 | 35 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0599-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Blank Analyzed: 03/15/2013 (13C0599-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Analyzed: 03/15/2013 (13C0599-BS1)** | | | | | | | | | | |
| Acetone | 28.6 | 20 | ug/l | 25.0 | | 115 | 38-150 | | | |
| Benzene | 22.3 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| Bromobenzene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Bromochloromethane | 20.2 | 0.50 | ug/l | 25.0 | | 81 | 70-130 | | | |
| Bromodichloromethane | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 57-138 | | | |
| 2-Butanone (MEK) | 24.1 | 5.0 | ug/l | 25.0 | | 96 | 53-150 | | | |
| n-Butylbenzene | 26.1 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| sec-Butylbenzene | 25.1 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| tert-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Carbon disulfide | 21.9 | 1.0 | ug/l | 25.0 | | 88 | 64-145 | | | |
| Carbon tetrachloride | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-143 | | | |
| Chlorobenzene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Chloroethane | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 66-131 | | | |
| Chloroform | 22.5 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Chloromethane | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 56-129 | | | |
| 2-Chlorotoluene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 4-Chlorotoluene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Dibromochloromethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 32.7 | 5.0 | ug/l | 25.0 | | 131 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Dibromomethane | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,3-Dichlorobenzene | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| Dichlorodifluoromethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 46-144 | | | |
| 1,1-Dichloroethane | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| 1,2-Dichloroethane | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 66-139 | | | |
| 1,1-Dichloroethene | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 63-131 | | | |
| cis-1,2-Dichloroethene | 22.1 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 69-127 | | | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | | | |
| 1,3-Dichloropropane | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 2,2-Dichloropropane | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 69-139 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Analyzed: 03/15/2013 (13C0599-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.1 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | | | |
| cis-1,3-Dichloropropene | 23.9 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| trans-1,3-Dichloropropene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Ethylbenzene | 24.4 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| Hexachlorobutadiene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | | | |
| 2-Hexanone | 29.2 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | | | |
| Iodomethane | 26.3 | 2.5 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Isopropylbenzene | 27.1 | 0.50 | ug/l | 25.0 | | 108 | 88-141 | | | |
| p-Isopropyltoluene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Methylene Chloride | 19.8 | 1.0 | ug/l | 25.0 | | 79 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 5.0 | ug/l | 25.0 | | 116 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Naphthalene | 24.2 | 5.0 | ug/l | 25.0 | | 97 | 78-143 | | | |
| n-Propylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Styrene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 21.8 | 1.0 | ug/l | 25.0 | | 87 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 23.8 | 1.0 | ug/l | 25.0 | | 95 | 80-137 | | | |
| 1,1,1-Trichloroethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 71-131 | | | |
| 1,1,2-Trichloroethane | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Trichloroethene | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Trichlorofluoromethane | 31.0 | 0.50 | ug/l | 25.0 | | 124 | 69-150 | | | |
| 1,2,3-Trichloropropane | 24.3 | 2.0 | ug/l | 25.0 | | 97 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Vinyl Acetate | 42.9 | 2.0 | ug/l | 25.0 | | 172 | 67-148 | | | *L3* |
| Vinyl chloride | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 65-137 | | | |
| Xylenes, Total | 45.6 | 1.0 | ug/l | 50.0 | | 91 | 70-130 | | | |
| Freon 113 | 20.4 | 2.0 | ug/l | 25.0 | | 81 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *23.4* | | *ug/l* | *25.0* | | *94* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/15/2013 (13C0599-BSD1)** | | | | | | | | | | |
| Acetone | 25.4 | 20 | ug/l | 25.0 | | 101 | 38-150 | 12 | 35 | |
| Benzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 2 | 20 | |
| Bromobenzene | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 5 | 20 | |
| Bromochloromethane | 20.2 | 0.50 | ug/l | 25.0 | | 81 | 70-130 | 0.1 | 20 | |
| Bromodichloromethane | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| Bromoform | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 69-129 | 0.2 | 20 | |
| Bromomethane | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 57-138 | 6 | 20 | |
| 2-Butanone (MEK) | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 53-150 | 4 | 35 | |
| n-Butylbenzene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 2 | 20 | |
| sec-Butylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 4 | 20 | |
| Carbon disulfide | 21.7 | 1.0 | ug/l | 25.0 | | 87 | 64-145 | 1 | 33 | |
| Carbon tetrachloride | 28.6 | 0.50 | ug/l | 25.0 | | 114 | 70-143 | 8 | 20 | |
| Chlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 3 | 20 | |
| Chloroethane | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 66-131 | 7 | 20 | |
| Chloroform | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| Chloromethane | 25.6 | 1.0 | ug/l | 25.0 | | 103 | 56-129 | 7 | 20 | |
| 2-Chlorotoluene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| 4-Chlorotoluene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 3 | 20 | |
| Dibromochloromethane | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 5 | 20 | |
| 1,2-Dibromo-3-chloropropane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 63-146 | 2 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 2 | 20 | |
| Dibromomethane | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| 1,2-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 2 | 20 | |
| 1,4-Dichlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Dichlorodifluoromethane | 29.9 | 0.50 | ug/l | 25.0 | | 120 | 46-144 | 9 | 23 | |
| 1,1-Dichloroethane | 22.2 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 0.7 | 20 | |
| 1,2-Dichloroethane | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 66-139 | 12 | 20 | |
| 1,1-Dichloroethene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 63-131 | 4 | 22 | |
| cis-1,2-Dichloroethene | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | 2 | 20 | |
| trans-1,2-Dichloroethene | 21.4 | 0.50 | ug/l | 25.0 | | 85 | 69-127 | 3 | 20 | |
| 1,2-Dichloropropane | 21.2 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 2 | 20 | |
| 1,3-Dichloropropane | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 5 | 20 | |
| 2,2-Dichloropropane | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 69-139 | 5 | 20 | |

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Attention: Jason Hilker

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Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/15/2013 (13C0599-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.4 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 0.04 | 20 | |
| trans-1,3-Dichloropropene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 3 | 20 | |
| Hexachlorobutadiene | 23.8 | 1.0 | ug/l | 25.0 | | 95 | 76-145 | 1 | 20 | |
| 2-Hexanone | 27.8 | 2.5 | ug/l | 25.0 | | 111 | 55-150 | 5 | 35 | |
| Iodomethane | 25.6 | 2.5 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| Isopropylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 88-141 | 5 | 20 | |
| p-Isopropyltoluene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 3 | 20 | |
| Methylene Chloride | 19.5 | 1.0 | ug/l | 25.0 | | 78 | 63-128 | 1 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 29.4 | 5.0 | ug/l | 25.0 | | 118 | 64-142 | 2 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Naphthalene | 23.8 | 5.0 | ug/l | 25.0 | | 95 | 78-143 | 2 | 20 | |
| n-Propylbenzene | 24.9 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 4 | 20 | |
| Styrene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 1 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 5 | 20 | |
| 1,1,2,2-Tetrachloroethane | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 3 | 20 | |
| Tetrachloroethene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 2 | 20 | |
| Toluene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 20.8 | 1.0 | ug/l | 25.0 | | 83 | 79-139 | 5 | 20 | |
| 1,2,4-Trichlorobenzene | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 80-137 | 6 | 20 | |
| 1,1,1-Trichloroethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 71-131 | 7 | 20 | |
| 1,1,2-Trichloroethane | 23.1 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 2 | 20 | |
| Trichloroethene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 0.7 | 20 | |
| Trichlorofluoromethane | 34.2 | 0.50 | ug/l | 25.0 | | 137 | 69-150 | 10 | 22 | |
| 1,2,3-Trichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 5 | 20 | |
| 1,2,4-Trimethylbenzene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| 1,3,5-Trimethylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| Vinyl Acetate | 43.0 | 2.0 | ug/l | 25.0 | | 172 | 67-148 | 0.07 | 22 | *L3* |
| Vinyl chloride | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 65-137 | 3 | 20 | |
| Xylenes, Total | 46.8 | 1.0 | ug/l | 50.0 | | 94 | 70-130 | 2 | 20 | |
| Freon 113 | 20.7 | 2.0 | ug/l | 25.0 | | 83 | 65-139 | 2 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Sampled: 03/13/13
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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/15/2013 (13C0599-MS1)** | | | | | **Source: PWC0898-06** | | | | | |
| Acetone | 25.6 | 20 | ug/l | 25.0 | ND | 102 | 29-139 | | | |
| Benzene | 21.9 | 0.50 | ug/l | 25.0 | ND | 88 | 68-131 | | | |
| Bromobenzene | 22.9 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | | | |
| Bromochloromethane | 20.4 | 0.50 | ug/l | 25.0 | ND | 81 | 64-132 | | | |
| Bromodichloromethane | 27.7 | 0.50 | ug/l | 25.0 | 2.13 | 102 | 63-138 | | | |
| Bromoform | 25.3 | 1.0 | ug/l | 25.0 | 0.660 | 98 | 60-128 | | | |
| Bromomethane | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 47-144 | | | |
| 2-Butanone (MEK) | 23.6 | 5.0 | ug/l | 25.0 | ND | 94 | 31-143 | | | |
| n-Butylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 69-140 | | | |
| sec-Butylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 72-136 | | | |
| tert-Butylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 74-135 | | | |
| Carbon disulfide | 21.7 | 1.0 | ug/l | 25.0 | ND | 87 | 45-150 | | | |
| Carbon tetrachloride | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 65-147 | | | |
| Chlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | | | |
| Chloroethane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 57-139 | | | |
| Chloroform | 24.6 | 0.50 | ug/l | 25.0 | 1.78 | 91 | 63-131 | | | |
| Chloromethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | | | |
| 2-Chlorotoluene | 24.6 | 0.50 | ug/l | 25.0 | ND | 99 | 71-131 | | | |
| 4-Chlorotoluene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Dibromochloromethane | 27.3 | 0.50 | ug/l | 25.0 | 2.38 | 100 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 34.4 | 5.0 | ug/l | 25.0 | ND | 138 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | | | |
| Dibromomethane | 23.6 | 0.50 | ug/l | 25.0 | ND | 95 | 66-136 | | | |
| 1,2-Dichlorobenzene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | | | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | | | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | | | |
| Dichlorodifluoromethane | 27.6 | 0.50 | ug/l | 25.0 | ND | 111 | 40-148 | | | |
| 1,1-Dichloroethane | 21.9 | 0.50 | ug/l | 25.0 | ND | 88 | 62-130 | | | |
| 1,2-Dichloroethane | 28.4 | 0.50 | ug/l | 25.0 | ND | 114 | 54-147 | | | |
| 1,1-Dichloroethene | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 57-137 | | | |
| cis-1,2-Dichloroethene | 21.5 | 0.50 | ug/l | 25.0 | ND | 86 | 65-127 | | | |
| trans-1,2-Dichloroethene | 21.6 | 0.50 | ug/l | 25.0 | ND | 87 | 62-131 | | | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | ND | 87 | 68-126 | | | |
| 1,3-Dichloropropane | 22.9 | 0.50 | ug/l | 25.0 | ND | 92 | 68-129 | | | |
| 2,2-Dichloropropane | 27.1 | 1.0 | ug/l | 25.0 | ND | 109 | 60-146 | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/15/2013 (13C0599-MS1)** | | | | | **Source: PWC0898-06** | | | | | |
| 1,1-Dichloropropene | 20.9 | 0.50 | ug/l | 25.0 | ND | 84 | 64-134 | | | |
| cis-1,3-Dichloropropene | 23.6 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | | | |
| trans-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 58-136 | | | |
| Ethylbenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 74-134 | | | |
| Hexachlorobutadiene | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 69-150 | | | |
| 2-Hexanone | 25.5 | 2.5 | ug/l | 25.0 | ND | 102 | 40-142 | | | |
| Iodomethane | 25.4 | 2.5 | ug/l | 25.0 | ND | 102 | 53-150 | | | |
| Isopropylbenzene | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | | | |
| p-Isopropyltoluene | 24.9 | 0.50 | ug/l | 25.0 | ND | 99 | 70-133 | | | |
| Methylene Chloride | 19.2 | 1.0 | ug/l | 25.0 | ND | 77 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.4 | 5.0 | ug/l | 25.0 | ND | 117 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-138 | | | |
| Naphthalene | 24.4 | 5.0 | ug/l | 25.0 | ND | 97 | 67-146 | | | |
| n-Propylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 74-140 | | | |
| Styrene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 63-137 | | | |
| Tetrachloroethene | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 67-131 | | | |
| Toluene | 22.6 | 0.50 | ug/l | 25.0 | ND | 91 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 21.7 | 1.0 | ug/l | 25.0 | ND | 87 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 24.2 | 1.0 | ug/l | 25.0 | ND | 97 | 74-138 | | | |
| 1,1,1-Trichloroethane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 64-138 | | | |
| 1,1,2-Trichloroethane | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 63-132 | | | |
| Trichloroethene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 66-132 | | | |
| Trichlorofluoromethane | 32.8 | 0.50 | ug/l | 25.0 | ND | 131 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 66-137 | | | |
| Vinyl Acetate | 42.4 | 2.0 | ug/l | 25.0 | ND | 169 | 47-150 | | | *N1a* |
| Vinyl chloride | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | | | |
| Xylenes, Total | 46.2 | 1.0 | ug/l | 50.0 | ND | 92 | 68-131 | | | |
| Freon 113 | 20.6 | 2.0 | ug/l | 25.0 | ND | 83 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/15/2013 (13C0599-MSD1)** | | | | | **Source: PWC0898-06** | | | | | |
| Acetone | 27.9 | 20 | ug/l | 25.0 | ND | 112 | 29-139 | 8 | 35 | |
| Benzene | 22.1 | 0.50 | ug/l | 25.0 | ND | 88 | 68-131 | 0.8 | 32 | |
| Bromobenzene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | 0.2 | 28 | |
| Bromochloromethane | 20.4 | 0.50 | ug/l | 25.0 | ND | 82 | 64-132 | 0.3 | 35 | |
| Bromodichloromethane | 28.1 | 0.50 | ug/l | 25.0 | 2.13 | 104 | 63-138 | 2 | 31 | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | 0.660 | 99 | 60-128 | 0.9 | 31 | |
| Bromomethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 23.0 | 5.0 | ug/l | 25.0 | ND | 92 | 31-143 | 2 | 35 | |
| n-Butylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | 3 | 32 | |
| sec-Butylbenzene | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 72-136 | 2 | 33 | |
| tert-Butylbenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | 2 | 32 | |
| Carbon disulfide | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 45-150 | 0.5 | 35 | |
| Carbon tetrachloride | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-147 | 1 | 35 | |
| Chlorobenzene | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | 2 | 30 | |
| Chloroethane | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 57-139 | 2 | 35 | |
| Chloroform | 24.7 | 0.50 | ug/l | 25.0 | 1.78 | 92 | 63-131 | 0.4 | 33 | |
| Chloromethane | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 47-134 | 0.08 | 35 | |
| 2-Chlorotoluene | 24.3 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | 1 | 29 | |
| 4-Chlorotoluene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 0.5 | 28 | |
| Dibromochloromethane | 28.6 | 0.50 | ug/l | 25.0 | 2.38 | 105 | 65-134 | 5 | 33 | |
| 1,2-Dibromo-3-chloropropane | 32.8 | 5.0 | ug/l | 25.0 | ND | 131 | 53-145 | 5 | 35 | *V1* |
| 1,2-Dibromoethane (EDB) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 5 | 33 | |
| Dibromomethane | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 4 | 35 | |
| 1,2-Dichlorobenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | 0.7 | 27 | |
| 1,3-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 1 | 28 | |
| 1,4-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | 2 | 26 | |
| Dichlorodifluoromethane | 28.4 | 0.50 | ug/l | 25.0 | ND | 113 | 40-148 | 3 | 35 | |
| 1,1-Dichloroethane | 22.4 | 0.50 | ug/l | 25.0 | ND | 89 | 62-130 | 2 | 34 | |
| 1,2-Dichloroethane | 28.7 | 0.50 | ug/l | 25.0 | ND | 115 | 54-147 | 1 | 35 | |
| 1,1-Dichloroethene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 57-137 | 3 | 35 | |
| cis-1,2-Dichloroethene | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 65-127 | 0.6 | 34 | |
| trans-1,2-Dichloroethene | 21.5 | 0.50 | ug/l | 25.0 | ND | 86 | 62-131 | 0.7 | 35 | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 68-126 | 0.2 | 32 | |
| 1,3-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 68-129 | 5 | 33 | |
| 2,2-Dichloropropane | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 60-146 | 1 | 35 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0599 Extracted: 03/15/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/15/2013 (13C0599-MSD1)** | | | | | **Source: PWC0898-06** | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | ND | 87 | 64-134 | 4 | 34 | |
| cis-1,3-Dichloropropene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | 0.7 | 35 | |
| trans-1,3-Dichloropropene | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 58-136 | 2 | 35 | |
| Ethylbenzene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 74-134 | 4 | 32 | |
| Hexachlorobutadiene | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 69-150 | 6 | 32 | |
| 2-Hexanone | 28.4 | 2.5 | ug/l | 25.0 | ND | 114 | 40-142 | 11 | 35 | |
| Iodomethane | 25.7 | 2.5 | ug/l | 25.0 | ND | 103 | 53-150 | 1 | 35 | |
| Isopropylbenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | 0.7 | 32 | |
| p-Isopropyltoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-133 | 3 | 32 | |
| Methylene Chloride | 20.3 | 1.0 | ug/l | 25.0 | ND | 81 | 55-133 | 6 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 30.8 | 5.0 | ug/l | 25.0 | ND | 123 | 52-143 | 5 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 67-138 | 6 | 21 | |
| Naphthalene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 67-146 | 3 | 29 | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 74-140 | 0.6 | 32 | |
| Styrene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 43-144 | 1 | 35 | |
| 1,1,1,2-Tetrachloroethane | 25.6 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 2 | 30 | |
| 1,1,2,2-Tetrachloroethane | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-137 | 3 | 32 | |
| Tetrachloroethene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 67-131 | 0.3 | 31 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 65-138 | 0.9 | 33 | |
| 1,2,3-Trichlorobenzene | 21.4 | 1.0 | ug/l | 25.0 | ND | 86 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 22.7 | 1.0 | ug/l | 25.0 | ND | 91 | 74-138 | 6 | 26 | |
| 1,1,1-Trichloroethane | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 64-138 | 0.1 | 35 | |
| 1,1,2-Trichloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 63-132 | 6 | 35 | |
| Trichloroethene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 66-132 | 0.04 | 29 | |
| Trichlorofluoromethane | 33.0 | 0.50 | ug/l | 25.0 | ND | 132 | 62-150 | 0.7 | 35 | |
| 1,2,3-Trichloropropane | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 68-130 | 0.9 | 32 | |
| 1,2,4-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 63-135 | 2 | 31 | |
| 1,3,5-Trimethylbenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 66-137 | 2 | 30 | |
| Vinyl Acetate | 43.9 | 2.0 | ug/l | 25.0 | ND | 176 | 47-150 | 4 | 35 | *N1a* |
| Vinyl chloride | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 55-146 | 0.4 | 35 | |
| Xylenes, Total | 47.0 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | 2 | 31 | |
| Freon 113 | 20.3 | 2.0 | ug/l | 25.0 | ND | 81 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.3* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0573 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2013 (13C0573-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.22* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.0* | | *83* | *27-143* | | | |
| **LCS Analyzed: 03/21/2013 (13C0573-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.20* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.5* | | *ug/l* | *20.0* | | *77* | *28-150* | | | |
| **LCS Dup Analyzed: 03/21/2013 (13C0573-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.93* | | *ug/l* | *20.0* | | *35* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.0* | | *ug/l* | *20.0* | | *90* | *28-150* | | | |

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/13/13 |
| Scottsdale, AZ 85251 | Report Number: PWC0898 | Received: 03/13/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **R6** | LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC0898

Sampled: 03/13/13
Received: 03/13/13

## Certification Summary

**TestAmerica Phoenix**

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

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Kylie Emily For Vic Nielsen
Project Manager

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# Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

| | | | |
|---|---|---|---|
| Client: EBM | Project Manager: Jason Nilsson | Date: 3/13/13 | Chain of Custody Number: 170054 |
| Address: 7272 E. Jones Street Rd #100 | Telephone Number (Area Code)/Fax Number: 480-998-2001 | Lab Number | Page 1 of 1 |
| City: Scottsdale; State: AZ; Zip Code: 85257 | Site Contact: R. Nagel 651-296-5867 | Lab Contact: K. L. | |
| Project Name and Location (State): OU3 AZ | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No.: 0086-05 | | | |

Matrix / Containers & Preservatives / Analysis (Attach list if more space is needed)

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Air | Aqueous | Sed. | Soil | | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | VOC 8260B | 1,4-Dioxane 8270 | | | | | | | | | | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OU3-RD-M-031313 | 3/13/13 | 0554 | | X | | | | X | | X | | | | | X | X | | | | | PWC0898-01 | | | | | |
| EW-20-S-031313 | 3/13/13 | 0549 | | X | | | | 2 | | 2 | | | | | X | X | | | | | | | | | 02 | |
| GW-808-031313 | 3/13/13 | 1000 | | X | | | | 2 | | 3 | | | | | X | X | | | | | | | | | 03 | |
| OU3-MD-D-031313 | 3/13/13 | 1345 | | X | | | | 2 | | 3 | | | | | X | X | | | | | | | | | 04 | |
| OU3-19-M-031313 | 3/13/13 | 1537 | | X | | | | 2 | | 3 | | | | | X | X | | | | | | | | | 05 | |
| GW-E09-031313 | 3/13/13 | 1545 | | X | | | | 2 | | 2 | | | | | X | X | | | | | | | | | 06 | |
| GW-U1-7-031313 | 3/13/13 | — | | X | | | | | | 1 | | | | | X | | | | | | | | | | 07 | Trip Blank |

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

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Normal

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: CRNF / FRAM | 3/13/13 | 1600 | 1. Received By | | |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By: [signature] | 3/13/13 | 1600 |

Comments

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

21.0°C, 1.9°C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/14/13
Received: 03/14/13
Revised: 04/29/13 08:15

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC1000-01 | OU3-1D-D031413 | Water |
| PWC1000-02 | OU3-13D-D031413 | Water |

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Report revised 042913 due to changes in QAPP.

Reviewed By:

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1000-01 (OU3-1D-D031413 - Water)**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

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Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1000-01 (OU3-1D-D031413 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *91 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *89 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1000-02 (OU3-13D-D031413 - Water)**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1000-02 (OU3-13D-D031413 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1000-01 (OU3-1D-D031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1.09 | 3/14/2013 | 3/22/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *26 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *84 %* | | | | |
| **Sample ID: PWC1000-02 (OU3-13D-D031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0573 | 1.0 | ND | 1 | 3/14/2013 | 3/22/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *86 %* | | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/18/2013 (13C0698-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/18/2013 (13C0698-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.2* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Analyzed: 03/18/2013 (13C0698-BS1)** | | | | | | | | | | |
| Acetone | 31.0 | 20 | ug/l | 25.0 | | 124 | 38-150 | | | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Bromobenzene | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Bromochloromethane | 21.1 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | | | |
| Bromodichloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromoform | 26.1 | 1.0 | ug/l | 25.0 | | 104 | 69-129 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 57-138 | | | |
| 2-Butanone (MEK) | 24.6 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | | | |
| n-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| sec-Butylbenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Carbon disulfide | 22.0 | 1.0 | ug/l | 25.0 | | 88 | 64-145 | | | |
| Carbon tetrachloride | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-143 | | | |
| Chlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Chloroethane | 23.9 | 1.0 | ug/l | 25.0 | | 96 | 66-131 | | | |
| Chloroform | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Chloromethane | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 56-129 | | | |
| 2-Chlorotoluene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 4-Chlorotoluene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Dibromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 35.2 | 5.0 | ug/l | 25.0 | | 141 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Dibromomethane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2-Dichlorobenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3-Dichlorobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,4-Dichlorobenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Dichlorodifluoromethane | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 46-144 | | | |
| 1,1-Dichloroethane | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 1,2-Dichloroethane | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 66-139 | | | |
| 1,1-Dichloroethene | 24.4 | 0.50 | ug/l | 25.0 | | 97 | 63-131 | | | |
| cis-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 69-127 | | | |
| 1,2-Dichloropropane | 21.5 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | | | |
| 1,3-Dichloropropane | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| 2,2-Dichloropropane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 69-139 | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Analyzed: 03/18/2013 (13C0698-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | | | |
| cis-1,3-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Ethylbenzene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 76-145 | | | |
| 2-Hexanone | 29.4 | 2.5 | ug/l | 25.0 | | 118 | 55-150 | | | |
| Iodomethane | 26.5 | 2.5 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Isopropylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 88-141 | | | |
| p-Isopropyltoluene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | | 82 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Naphthalene | 24.3 | 5.0 | ug/l | 25.0 | | 97 | 78-143 | | | |
| n-Propylbenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Styrene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Tetrachloroethene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 22.9 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 21.8 | 1.0 | ug/l | 25.0 | | 87 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 23.6 | 1.0 | ug/l | 25.0 | | 94 | 80-137 | | | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 71-131 | | | |
| 1,1,2-Trichloroethane | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Trichlorofluoromethane | 33.4 | 0.50 | ug/l | 25.0 | | 134 | 69-150 | | | |
| 1,2,3-Trichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 41.0 | 2.0 | ug/l | 25.0 | | 164 | 67-148 | | | *L3* |
| Vinyl chloride | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 65-137 | | | |
| Xylenes, Total | 48.1 | 1.0 | ug/l | 50.0 | | 96 | 70-130 | | | |
| Freon 113 | 21.0 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

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Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/18/2013 (13C0698-BSD1)** | | | | | | | | | | |
| Acetone | 28.8 | 20 | ug/l | 25.0 | | 115 | 38-150 | 7 | 35 | |
| Benzene | 22.1 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 2 | 20 | |
| Bromobenzene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 7 | 20 | |
| Bromochloromethane | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 3 | 20 | |
| Bromoform | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 69-129 | 3 | 20 | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | | 99 | 57-138 | 3 | 20 | |
| 2-Butanone (MEK) | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 53-150 | 5 | 35 | |
| n-Butylbenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 5 | 20 | |
| Carbon disulfide | 22.3 | 1.0 | ug/l | 25.0 | | 89 | 64-145 | 1 | 33 | |
| Carbon tetrachloride | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-143 | 3 | 20 | |
| Chlorobenzene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 2 | 20 | |
| Chloroethane | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 66-131 | 2 | 20 | |
| Chloroform | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 0.6 | 20 | |
| Chloromethane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 56-129 | 2 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 7 | 20 | |
| 4-Chlorotoluene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 3 | 20 | |
| Dibromochloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| 1,2-Dibromo-3-chloropropane | 36.6 | 5.0 | ug/l | 25.0 | | 146 | 63-146 | 4 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 0.7 | 20 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 3 | 20 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| 1,4-Dichlorobenzene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 4 | 20 | |
| Dichlorodifluoromethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 46-144 | 3 | 23 | |
| 1,1-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 0.8 | 20 | |
| 1,2-Dichloroethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 66-139 | 0.8 | 20 | |
| 1,1-Dichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 93 | 63-131 | 5 | 22 | |
| cis-1,2-Dichloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 0.6 | 20 | |
| trans-1,2-Dichloroethene | 22.5 | 0.50 | ug/l | 25.0 | | 90 | 69-127 | 0.6 | 20 | |
| 1,2-Dichloropropane | 21.1 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 2 | 20 | |
| 1,3-Dichloropropane | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 69-139 | 2 | 20 | |

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Kylie Emily For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/18/2013 (13C0698-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.2 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 2 | 20 | |
| trans-1,3-Dichloropropene | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 2 | 20 | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 2 | 20 | |
| Hexachlorobutadiene | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 76-145 | 2 | 20 | |
| 2-Hexanone | 29.2 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | 0.5 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| Isopropylbenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 88-141 | 7 | 20 | |
| p-Isopropyltoluene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 6 | 20 | |
| Methylene Chloride | 21.6 | 1.0 | ug/l | 25.0 | | 87 | 63-128 | 5 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 30.5 | 5.0 | ug/l | 25.0 | | 122 | 64-142 | 6 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 0.9 | 20 | |
| Naphthalene | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 78-143 | 11 | 20 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 6 | 20 | |
| Styrene | 24.4 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| Tetrachloroethene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 3 | 20 | |
| Toluene | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 1 | 20 | |
| 1,2,3-Trichlorobenzene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 7 | 20 | |
| 1,2,4-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-137 | 5 | 20 | |
| 1,1,1-Trichloroethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 71-131 | 1 | 20 | |
| 1,1,2-Trichloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 2 | 20 | |
| Trichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 33.0 | 0.50 | ug/l | 25.0 | | 132 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 70-130 | 0.5 | 20 | |
| 1,2,4-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 5 | 20 | |
| 1,3,5-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| Vinyl Acetate | 43.3 | 2.0 | ug/l | 25.0 | | 173 | 67-148 | 5 | 22 | *L3* |
| Vinyl chloride | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 65-137 | 1 | 20 | |
| Xylenes, Total | 46.5 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 3 | 20 | |
| Freon 113 | 21.3 | 2.0 | ug/l | 25.0 | | 85 | 65-139 | 2 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/18/2013 (13C0698-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| Acetone | 26.4 | 20 | ug/l | 25.0 | ND | 106 | 29-139 | | | |
| Benzene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | | | |
| Bromobenzene | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 70-130 | | | |
| Bromochloromethane | 21.4 | 0.50 | ug/l | 25.0 | ND | 86 | 64-132 | | | |
| Bromodichloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 63-138 | | | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 60-128 | | | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 69-140 | | | |
| sec-Butylbenzene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 72-136 | | | |
| tert-Butylbenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 74-135 | | | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | ND | 91 | 45-150 | | | |
| Carbon tetrachloride | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-147 | | | |
| Chlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Chloroethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 57-139 | | | |
| Chloroform | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-131 | | | |
| Chloromethane | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 47-134 | | | |
| 2-Chlorotoluene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 71-131 | | | |
| 4-Chlorotoluene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | | | |
| Dibromochloromethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | ND | 145 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Dibromomethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 66-136 | | | |
| 1,2-Dichlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | | | |
| 1,3-Dichlorobenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-130 | | | |
| Dichlorodifluoromethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 40-148 | | | |
| 1,1-Dichloroethane | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 62-130 | | | |
| 1,2-Dichloroethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 54-147 | | | |
| 1,1-Dichloroethene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 57-137 | | | |
| cis-1,2-Dichloroethene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 65-127 | | | |
| trans-1,2-Dichloroethene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 62-131 | | | |
| 1,2-Dichloropropane | 22.2 | 0.50 | ug/l | 25.0 | ND | 89 | 68-126 | | | |
| 1,3-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 68-129 | | | |
| 2,2-Dichloropropane | 27.3 | 1.0 | ug/l | 25.0 | ND | 109 | 60-146 | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/18/2013 (13C0698-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,1-Dichloropropene | 21.1 | 0.50 | ug/l | 25.0 | ND | 84 | 64-134 | | | |
| cis-1,3-Dichloropropene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | | | |
| trans-1,3-Dichloropropene | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 58-136 | | | |
| Ethylbenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | | | |
| Hexachlorobutadiene | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 69-150 | | | |
| 2-Hexanone | 27.3 | 2.5 | ug/l | 25.0 | ND | 109 | 40-142 | | | |
| Iodomethane | 26.7 | 2.5 | ug/l | 25.0 | ND | 107 | 53-150 | | | |
| Isopropylbenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | | | |
| p-Isopropyltoluene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 70-133 | | | |
| Methylene Chloride | 22.2 | 1.0 | ug/l | 25.0 | ND | 89 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.4 | 5.0 | ug/l | 25.0 | ND | 118 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 67-138 | | | |
| Naphthalene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 67-146 | | | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 74-140 | | | |
| Styrene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 63-137 | | | |
| Tetrachloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | | | |
| Toluene | 22.9 | 0.50 | ug/l | 25.0 | ND | 92 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 21.2 | 1.0 | ug/l | 25.0 | ND | 85 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 22.6 | 1.0 | ug/l | 25.0 | ND | 90 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | | | |
| 1,1,2-Trichloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 63-132 | | | |
| Trichloroethene | 25.2 | 0.50 | ug/l | 25.0 | 0.500 | 99 | 66-132 | | | |
| Trichlorofluoromethane | 34.6 | 0.50 | ug/l | 25.0 | ND | 138 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.9 | 2.0 | ug/l | 25.0 | ND | 107 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 24.9 | 0.50 | ug/l | 25.0 | ND | 99 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 66-137 | | | |
| Vinyl Acetate | 38.5 | 2.0 | ug/l | 25.0 | ND | 154 | 47-150 | | | *N1* |
| Vinyl chloride | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 55-146 | | | |
| Xylenes, Total | 46.6 | 1.0 | ug/l | 50.0 | ND | 93 | 68-131 | | | |
| Freon 113 | 21.5 | 2.0 | ug/l | 25.0 | ND | 86 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/18/2013 (13C0698-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| Acetone | 23.8 | 20 | ug/l | 25.0 | ND | 95 | 29-139 | 11 | 35 | |
| Benzene | 22.2 | 0.50 | ug/l | 25.0 | ND | 89 | 68-131 | 0.9 | 32 | |
| Bromobenzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | 3 | 28 | |
| Bromochloromethane | 21.9 | 0.50 | ug/l | 25.0 | ND | 88 | 64-132 | 2 | 35 | |
| Bromodichloromethane | 25.6 | 0.50 | ug/l | 25.0 | ND | 103 | 63-138 | 5 | 31 | |
| Bromoform | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 60-128 | 0.3 | 31 | |
| Bromomethane | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 24.7 | 5.0 | ug/l | 25.0 | ND | 99 | 31-143 | 6 | 35 | |
| n-Butylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 72-136 | 1 | 33 | |
| tert-Butylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-135 | 0.8 | 32 | |
| Carbon disulfide | 22.4 | 1.0 | ug/l | 25.0 | ND | 89 | 45-150 | 1 | 35 | |
| Carbon tetrachloride | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | 2 | 35 | |
| Chlorobenzene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 0.3 | 30 | |
| Chloroethane | 24.1 | 1.0 | ug/l | 25.0 | ND | 96 | 57-139 | 1 | 35 | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 63-131 | 0.4 | 33 | |
| Chloromethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 105 | 47-134 | 4 | 35 | |
| 2-Chlorotoluene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 71-131 | 0.7 | 29 | |
| 4-Chlorotoluene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 65-134 | 0.2 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.2 | 5.0 | ug/l | 25.0 | ND | 145 | 53-145 | 0.6 | 35 | *V1* |
| 1,2-Dibromoethane (EDB) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 0.2 | 33 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 2 | 35 | |
| 1,2-Dichlorobenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 70-130 | 1 | 27 | |
| 1,3-Dichlorobenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | 0.7 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 1 | 26 | |
| Dichlorodifluoromethane | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 40-148 | 2 | 35 | |
| 1,1-Dichloroethane | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 62-130 | 0.3 | 34 | |
| 1,2-Dichloroethane | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 54-147 | 1 | 35 | |
| 1,1-Dichloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 65-127 | 2 | 34 | |
| trans-1,2-Dichloroethene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 62-131 | 0.5 | 35 | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 68-126 | 3 | 32 | |
| 1,3-Dichloropropane | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 68-129 | 0.2 | 33 | |
| 2,2-Dichloropropane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 60-146 | 6 | 35 | |

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Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/18/2013 (13C0698-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | ND | 83 | 64-134 | 2 | 34 | |
| cis-1,3-Dichloropropene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 63-135 | 1 | 35 | |
| trans-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 58-136 | 0.9 | 35 | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | 0.2 | 32 | |
| Hexachlorobutadiene | 23.7 | 1.0 | ug/l | 25.0 | ND | 95 | 69-150 | 0.9 | 32 | |
| 2-Hexanone | 27.2 | 2.5 | ug/l | 25.0 | ND | 109 | 40-142 | 0.2 | 35 | |
| Iodomethane | 26.4 | 2.5 | ug/l | 25.0 | ND | 106 | 53-150 | 1 | 35 | |
| Isopropylbenzene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 80-146 | 2 | 32 | |
| p-Isopropyltoluene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 70-133 | 1 | 32 | |
| Methylene Chloride | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 55-133 | 2 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 28.0 | 5.0 | ug/l | 25.0 | ND | 112 | 52-143 | 5 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 67-138 | 4 | 21 | |
| Naphthalene | 25.3 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 0.6 | 29 | |
| n-Propylbenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 74-140 | 2 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 2 | 35 | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 63-137 | 1 | 32 | |
| Tetrachloroethene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | 0.4 | 31 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 65-138 | 2 | 33 | |
| 1,2,3-Trichlorobenzene | 21.4 | 1.0 | ug/l | 25.0 | ND | 85 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 74-138 | 0.6 | 26 | |
| 1,1,1-Trichloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | 0.6 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 93 | 63-132 | 2 | 35 | |
| Trichloroethene | 24.1 | 0.50 | ug/l | 25.0 | 0.500 | 94 | 66-132 | 4 | 29 | |
| Trichlorofluoromethane | 33.5 | 0.50 | ug/l | 25.0 | ND | 134 | 62-150 | 3 | 35 | |
| 1,2,3-Trichloropropane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 68-130 | 4 | 32 | |
| 1,2,4-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 63-135 | 1 | 31 | |
| 1,3,5-Trimethylbenzene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 66-137 | 2 | 30 | |
| Vinyl Acetate | 36.9 | 2.0 | ug/l | 25.0 | ND | 148 | 47-150 | 4 | 35 | |
| Vinyl chloride | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 55-146 | 0.1 | 35 | |
| Xylenes, Total | 47.2 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | 1 | 31 | |
| Freon 113 | 21.8 | 2.0 | ug/l | 25.0 | ND | 87 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0573 Extracted: 03/14/13** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2013 (13C0573-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.22* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.0* | | *83* | *27-143* | | | |
| **LCS Analyzed: 03/21/2013 (13C0573-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.20* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.5* | | *ug/l* | *20.0* | | *77* | *28-150* | | | |
| **LCS Dup Analyzed: 03/21/2013 (13C0573-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 21.8 | 1.0 | ug/l | 20.0 | | 109 | 85-116 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.93* | | *ug/l* | *20.0* | | *35* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.0* | | *ug/l* | *20.0* | | *90* | *28-150* | | | |

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/14/13 |
| Scottsdale, AZ 85251 | Report Number: PWC1000 | Received: 03/14/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

**TestAmerica Phoenix**

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1000

Sampled: 03/14/13
Received: 03/14/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |
| NA | Water | | |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Kylie Emily For Vic Nielsen
Project Manager

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[redacted]

# Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

PWC1000

TAL-4124-280 (0508)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| FRM | [illegible] | 3/14/13 | 170060 |
| **Address** | **Telephone Number (Area Code)/Fax Number** | **Lab Number** | **Page 1 of 1** |
| 7272 E Indian School Rd #109 | 480 998 8600 | | |

| City | State | Zip Code | Site Contact | Lab Contact |
|---|---|---|---|---|
| Scottsdale | AZ | 85251 | [illegible] | [illegible] |

| Project Name and Location (State) | Carrier/Waybill Number |
|---|---|
| OU3 LTC | |

Contract/Purchase Order/Quote No.: 0000-198

Analysis (Attach list if more space is needed): VOC by 8260B; ATB gases 8270

Special Instructions/ Conditions of Receipt

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Air | Aqueous | Sed. | Soil | | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | | VOC by 8260B | ATB gases 8270 | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OU3-1D-D-031413 -01 | 3/14/13 | 1141 | | X | | | | 2 | | | 3 | | | | X | X | Level III |
| OU3-1BD-D-031413 -02 | 3/14/13 | 1425 | | X | | | | 2 | | | 3 | | | | X | X | Level III |

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

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Normal

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: FRM / FRM | 3/14/13 | 1700 | 1. Received By | | |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By: Sharon Malone | 3/14/13 | 1700 |

Comments: 1.4°C + 2.2°C

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/14/13
Received: 03/14/13
Revised: 04/23/13 16:33

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC1003-01 | OU3-20S-S-031413-MS/MSD | Water |
| PWC1003-02 | OU3-20M-M-031413 | Water |
| PWC1003-03 | OU3-13M-M-031413 | Water |
| PWC1003-04 | OU3-13M-M-031413-Q1 | Water |
| PWC1003-05 | GW-EB10-031413 | Water |
| PWC1003-06 | GW-L1-8-031413 | Water |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 04/23/13 due to QAPP changes. |

Reviewed By:

Tina Paulauskas

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1003-01 (OU3-20S-S-031413-MS/MSD - Water)**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| Acetone | EPA 8260B | 13C0698 | 10 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1003-01 (OU3-20S-S-031413-MS/MSD - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0698 | 0.50 | **0.50** | 1 | 3/18/2013 | 3/18/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3, N1 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-02 (OU3-20M-M-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1003-02 (OU3-20M-M-031413 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-03 (OU3-13M-M-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0698 | 0.50 | **2.1** | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1003-03 (OU3-13M-M-031413 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0698 | 0.50 | **22** | 1 | 3/18/2013 | 3/18/2013 | |
| **Trichlorofluoromethane** | EPA 8260B | 13C0698 | 0.50 | **0.52** | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *90 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-04 (OU3-13M-M-031413-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0698 | 0.50 | **2.1** | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1003-04 (OU3-13M-M-031413-Q1 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0698 | 0.50 | **0.50** | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0698 | 0.50 | **22** | 1 | 3/18/2013 | 3/18/2013 | |
| **Trichlorofluoromethane** | EPA 8260B | 13C0698 | 0.50 | **0.50** | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *90 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-05 (GW-EB10-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0698 | 0.50 | **2.3** | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Chloroform** | EPA 8260B | 13C0698 | 0.50 | **1.8** | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0698 | 0.50 | **2.6** | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-05 (GW-EB10-031413 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *91 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-06 (GW-L1-8-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0698 | 20 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Benzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromoform | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Bromomethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon disulfide | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloroform | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Chloromethane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dibromomethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Ethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1003-06 (GW-L1-8-031413 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Iodomethane | EPA 8260B | 13C0698 | 2.5 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methylene Chloride | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Naphthalene | EPA 8260B | 13C0698 | 5.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Styrene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Toluene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichloroethene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0698 | 0.50 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Xylenes, Total | EPA 8260B | 13C0698 | 1.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| Freon 113 | EPA 8260B | 13C0698 | 2.0 | ND | 1 | 3/18/2013 | 3/18/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *92 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1003-01 (OU3-20S-S-031413-MS/MSD - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.0 | ND | 1.05 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *29 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *90 %* | | | | |
| **Sample ID: PWC1003-02 (OU3-20M-M-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.0 | ND | 1 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *32 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *95 %* | | | | |
| **Sample ID: PWC1003-03 (OU3-13M-M-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.0 | ND | 1 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *27 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *94 %* | | | | |
| **Sample ID: PWC1003-04 (OU3-13M-M-031413-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.0 | ND | 1 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *31 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *91 %* | | | | |
| **Sample ID: PWC1003-05 (GW-EB10-031413 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.1 | ND | 1.14 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *33 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *102 %* | | | | |

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/18/2013 (13C0698-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/18/2013 (13C0698-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.2* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Analyzed: 03/18/2013 (13C0698-BS1)** | | | | | | | | | | |
| Acetone | 31.0 | 20 | ug/l | 25.0 | | 124 | 38-150 | | | |
| Benzene | 22.5 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | | | |
| Bromobenzene | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Bromochloromethane | 21.1 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | | | |
| Bromodichloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Bromoform | 26.1 | 1.0 | ug/l | 25.0 | | 104 | 69-129 | | | |
| Bromomethane | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 57-138 | | | |
| 2-Butanone (MEK) | 24.6 | 5.0 | ug/l | 25.0 | | 98 | 53-150 | | | |
| n-Butylbenzene | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 70-130 | | | |
| sec-Butylbenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Carbon disulfide | 22.0 | 1.0 | ug/l | 25.0 | | 88 | 64-145 | | | |
| Carbon tetrachloride | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 70-143 | | | |
| Chlorobenzene | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Chloroethane | 23.9 | 1.0 | ug/l | 25.0 | | 96 | 66-131 | | | |
| Chloroform | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Chloromethane | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 56-129 | | | |
| 2-Chlorotoluene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 4-Chlorotoluene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Dibromochloromethane | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 35.2 | 5.0 | ug/l | 25.0 | | 141 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Dibromomethane | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,2-Dichlorobenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3-Dichlorobenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,4-Dichlorobenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Dichlorodifluoromethane | 27.5 | 0.50 | ug/l | 25.0 | | 110 | 46-144 | | | |
| 1,1-Dichloroethane | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 1,2-Dichloroethane | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 66-139 | | | |
| 1,1-Dichloroethene | 24.4 | 0.50 | ug/l | 25.0 | | 97 | 63-131 | | | |
| cis-1,2-Dichloroethene | 23.3 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 69-127 | | | |
| 1,2-Dichloropropane | 21.5 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | | | |
| 1,3-Dichloropropane | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | | | |
| 2,2-Dichloropropane | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 69-139 | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Analyzed: 03/18/2013 (13C0698-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-130 | | | |
| cis-1,3-Dichloropropene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| trans-1,3-Dichloropropene | 26.4 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Ethylbenzene | 25.5 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Hexachlorobutadiene | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 76-145 | | | |
| 2-Hexanone | 29.4 | 2.5 | ug/l | 25.0 | | 118 | 55-150 | | | |
| Iodomethane | 26.5 | 2.5 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Isopropylbenzene | 28.0 | 0.50 | ug/l | 25.0 | | 112 | 88-141 | | | |
| p-Isopropyltoluene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| Methylene Chloride | 20.5 | 1.0 | ug/l | 25.0 | | 82 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Naphthalene | 24.3 | 5.0 | ug/l | 25.0 | | 97 | 78-143 | | | |
| n-Propylbenzene | 26.8 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | | | |
| Styrene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Tetrachloroethene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| Toluene | 22.9 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 21.8 | 1.0 | ug/l | 25.0 | | 87 | 79-139 | | | |
| 1,2,4-Trichlorobenzene | 23.6 | 1.0 | ug/l | 25.0 | | 94 | 80-137 | | | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | | 111 | 71-131 | | | |
| 1,1,2-Trichloroethane | 24.0 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Trichloroethene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Trichlorofluoromethane | 33.4 | 0.50 | ug/l | 25.0 | | 134 | 69-150 | | | |
| 1,2,3-Trichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 25.9 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 26.3 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | | | |
| Vinyl Acetate | 41.0 | 2.0 | ug/l | 25.0 | | 164 | 67-148 | | | *L3* |
| Vinyl chloride | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 65-137 | | | |
| Xylenes, Total | 48.1 | 1.0 | ug/l | 50.0 | | 96 | 70-130 | | | |
| Freon 113 | 21.0 | 2.0 | ug/l | 25.0 | | 84 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98* | *70-130* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/18/2013 (13C0698-BSD1)** | | | | | | | | | | |
| Acetone | 28.8 | 20 | ug/l | 25.0 | | 115 | 38-150 | 7 | 35 | |
| Benzene | 22.1 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | 2 | 20 | |
| Bromobenzene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | 7 | 20 | |
| Bromochloromethane | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | 4 | 20 | |
| Bromodichloromethane | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 3 | 20 | |
| Bromoform | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 69-129 | 3 | 20 | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | | 99 | 57-138 | 3 | 20 | |
| 2-Butanone (MEK) | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 53-150 | 5 | 35 | |
| n-Butylbenzene | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 70-130 | 3 | 20 | |
| sec-Butylbenzene | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 4 | 20 | |
| tert-Butylbenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 5 | 20 | |
| Carbon disulfide | 22.3 | 1.0 | ug/l | 25.0 | | 89 | 64-145 | 1 | 33 | |
| Carbon tetrachloride | 27.6 | 0.50 | ug/l | 25.0 | | 110 | 70-143 | 3 | 20 | |
| Chlorobenzene | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 2 | 20 | |
| Chloroethane | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 66-131 | 2 | 20 | |
| Chloroform | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 0.6 | 20 | |
| Chloromethane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 56-129 | 2 | 20 | |
| 2-Chlorotoluene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 7 | 20 | |
| 4-Chlorotoluene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 3 | 20 | |
| Dibromochloromethane | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 1 | 20 | |
| 1,2-Dibromo-3-chloropropane | 36.6 | 5.0 | ug/l | 25.0 | | 146 | 63-146 | 4 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 24.9 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 0.7 | 20 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 3 | 20 | |
| 1,3-Dichlorobenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| 1,4-Dichlorobenzene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 4 | 20 | |
| Dichlorodifluoromethane | 26.7 | 0.50 | ug/l | 25.0 | | 107 | 46-144 | 3 | 23 | |
| 1,1-Dichloroethane | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 0.8 | 20 | |
| 1,2-Dichloroethane | 28.7 | 0.50 | ug/l | 25.0 | | 115 | 66-139 | 0.8 | 20 | |
| 1,1-Dichloroethene | 23.1 | 0.50 | ug/l | 25.0 | | 93 | 63-131 | 5 | 22 | |
| cis-1,2-Dichloroethene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 0.6 | 20 | |
| trans-1,2-Dichloroethene | 22.5 | 0.50 | ug/l | 25.0 | | 90 | 69-127 | 0.6 | 20 | |
| 1,2-Dichloropropane | 21.1 | 0.50 | ug/l | 25.0 | | 84 | 70-130 | 2 | 20 | |
| 1,3-Dichloropropane | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | 3 | 20 | |
| 2,2-Dichloropropane | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 69-139 | 2 | 20 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/18/2013 (13C0698-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 21.2 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 2 | 20 | |
| trans-1,3-Dichloropropene | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 2 | 20 | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 2 | 20 | |
| Hexachlorobutadiene | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 76-145 | 2 | 20 | |
| 2-Hexanone | 29.2 | 2.5 | ug/l | 25.0 | | 117 | 55-150 | 0.5 | 35 | |
| Iodomethane | 27.3 | 2.5 | ug/l | 25.0 | | 109 | 70-130 | 3 | 20 | |
| Isopropylbenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 88-141 | 7 | 20 | |
| p-Isopropyltoluene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 6 | 20 | |
| Methylene Chloride | 21.6 | 1.0 | ug/l | 25.0 | | 87 | 63-128 | 5 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 30.5 | 5.0 | ug/l | 25.0 | | 122 | 64-142 | 6 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 0.9 | 20 | |
| Naphthalene | 27.0 | 5.0 | ug/l | 25.0 | | 108 | 78-143 | 11 | 20 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 6 | 20 | |
| Styrene | 24.4 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 4 | 20 | |
| Tetrachloroethene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 3 | 20 | |
| Toluene | 22.6 | 0.50 | ug/l | 25.0 | | 90 | 70-130 | 1 | 20 | |
| 1,2,3-Trichlorobenzene | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 79-139 | 7 | 20 | |
| 1,2,4-Trichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-137 | 5 | 20 | |
| 1,1,1-Trichloroethane | 27.4 | 0.50 | ug/l | 25.0 | | 110 | 71-131 | 1 | 20 | |
| 1,1,2-Trichloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 2 | 20 | |
| Trichloroethene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 33.0 | 0.50 | ug/l | 25.0 | | 132 | 69-150 | 1 | 22 | |
| 1,2,3-Trichloropropane | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 70-130 | 0.5 | 20 | |
| 1,2,4-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 5 | 20 | |
| 1,3,5-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | 6 | 20 | |
| Vinyl Acetate | 43.3 | 2.0 | ug/l | 25.0 | | 173 | 67-148 | 5 | 22 | *L3* |
| Vinyl chloride | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 65-137 | 1 | 20 | |
| Xylenes, Total | 46.5 | 1.0 | ug/l | 50.0 | | 93 | 70-130 | 3 | 20 | |
| Freon 113 | 21.3 | 2.0 | ug/l | 25.0 | | 85 | 65-139 | 2 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/18/2013 (13C0698-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| Acetone | 26.4 | 20 | ug/l | 25.0 | ND | 106 | 29-139 | | | |
| Benzene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 68-131 | | | |
| Bromobenzene | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 70-130 | | | |
| Bromochloromethane | 21.4 | 0.50 | ug/l | 25.0 | ND | 86 | 64-132 | | | |
| Bromodichloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 107 | 63-138 | | | |
| Bromoform | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 60-128 | | | |
| Bromomethane | 24.9 | 1.0 | ug/l | 25.0 | ND | 100 | 47-144 | | | |
| 2-Butanone (MEK) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 31-143 | | | |
| n-Butylbenzene | 26.1 | 0.50 | ug/l | 25.0 | ND | 104 | 69-140 | | | |
| sec-Butylbenzene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 72-136 | | | |
| tert-Butylbenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 74-135 | | | |
| Carbon disulfide | 22.7 | 1.0 | ug/l | 25.0 | ND | 91 | 45-150 | | | |
| Carbon tetrachloride | 28.2 | 0.50 | ug/l | 25.0 | ND | 113 | 65-147 | | | |
| Chlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Chloroethane | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 57-139 | | | |
| Chloroform | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 63-131 | | | |
| Chloromethane | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 47-134 | | | |
| 2-Chlorotoluene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 71-131 | | | |
| 4-Chlorotoluene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | | | |
| Dibromochloromethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 36.4 | 5.0 | ug/l | 25.0 | ND | 145 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Dibromomethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 66-136 | | | |
| 1,2-Dichlorobenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | | | |
| 1,3-Dichlorobenzene | 24.4 | 0.50 | ug/l | 25.0 | ND | 97 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-130 | | | |
| Dichlorodifluoromethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 40-148 | | | |
| 1,1-Dichloroethane | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 62-130 | | | |
| 1,2-Dichloroethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 54-147 | | | |
| 1,1-Dichloroethene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 57-137 | | | |
| cis-1,2-Dichloroethene | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 65-127 | | | |
| trans-1,2-Dichloroethene | 22.5 | 0.50 | ug/l | 25.0 | ND | 90 | 62-131 | | | |
| 1,2-Dichloropropane | 22.2 | 0.50 | ug/l | 25.0 | ND | 89 | 68-126 | | | |
| 1,3-Dichloropropane | 24.1 | 0.50 | ug/l | 25.0 | ND | 96 | 68-129 | | | |
| 2,2-Dichloropropane | 27.3 | 1.0 | ug/l | 25.0 | ND | 109 | 60-146 | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/18/2013 (13C0698-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,1-Dichloropropene | 21.1 | 0.50 | ug/l | 25.0 | ND | 84 | 64-134 | | | |
| cis-1,3-Dichloropropene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 63-135 | | | |
| trans-1,3-Dichloropropene | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 58-136 | | | |
| Ethylbenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | | | |
| Hexachlorobutadiene | 23.9 | 1.0 | ug/l | 25.0 | ND | 96 | 69-150 | | | |
| 2-Hexanone | 27.3 | 2.5 | ug/l | 25.0 | ND | 109 | 40-142 | | | |
| Iodomethane | 26.7 | 2.5 | ug/l | 25.0 | ND | 107 | 53-150 | | | |
| Isopropylbenzene | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 80-146 | | | |
| p-Isopropyltoluene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 70-133 | | | |
| Methylene Chloride | 22.2 | 1.0 | ug/l | 25.0 | ND | 89 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.4 | 5.0 | ug/l | 25.0 | ND | 118 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 67-138 | | | |
| Naphthalene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 67-146 | | | |
| n-Propylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 74-140 | | | |
| Styrene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 63-137 | | | |
| Tetrachloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | | | |
| Toluene | 22.9 | 0.50 | ug/l | 25.0 | ND | 92 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 21.2 | 1.0 | ug/l | 25.0 | ND | 85 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 22.6 | 1.0 | ug/l | 25.0 | ND | 90 | 74-138 | | | |
| 1,1,1-Trichloroethane | 27.7 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | | | |
| 1,1,2-Trichloroethane | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 63-132 | | | |
| Trichloroethene | 25.2 | 0.50 | ug/l | 25.0 | 0.500 | 99 | 66-132 | | | |
| Trichlorofluoromethane | 34.6 | 0.50 | ug/l | 25.0 | ND | 138 | 62-150 | | | |
| 1,2,3-Trichloropropane | 26.9 | 2.0 | ug/l | 25.0 | ND | 107 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 24.9 | 0.50 | ug/l | 25.0 | ND | 99 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 24.9 | 0.50 | ug/l | 25.0 | ND | 100 | 66-137 | | | |
| Vinyl Acetate | 38.5 | 2.0 | ug/l | 25.0 | ND | 154 | 47-150 | | | *N1* |
| Vinyl chloride | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 55-146 | | | |
| Xylenes, Total | 46.6 | 1.0 | ug/l | 50.0 | ND | 93 | 68-131 | | | |
| Freon 113 | 21.5 | 2.0 | ug/l | 25.0 | ND | 86 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-130* | | | |

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## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/18/2013 (13C0698-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| Acetone | 23.8 | 20 | ug/l | 25.0 | ND | 95 | 29-139 | 11 | 35 | |
| Benzene | 22.2 | 0.50 | ug/l | 25.0 | ND | 89 | 68-131 | 0.9 | 32 | |
| Bromobenzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | 3 | 28 | |
| Bromochloromethane | 21.9 | 0.50 | ug/l | 25.0 | ND | 88 | 64-132 | 2 | 35 | |
| Bromodichloromethane | 25.6 | 0.50 | ug/l | 25.0 | ND | 103 | 63-138 | 5 | 31 | |
| Bromoform | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 60-128 | 0.3 | 31 | |
| Bromomethane | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 47-144 | 1 | 35 | |
| 2-Butanone (MEK) | 24.7 | 5.0 | ug/l | 25.0 | ND | 99 | 31-143 | 6 | 35 | |
| n-Butylbenzene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 69-140 | 2 | 32 | |
| sec-Butylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 72-136 | 1 | 33 | |
| tert-Butylbenzene | 25.3 | 0.50 | ug/l | 25.0 | ND | 101 | 74-135 | 0.8 | 32 | |
| Carbon disulfide | 22.4 | 1.0 | ug/l | 25.0 | ND | 89 | 45-150 | 1 | 35 | |
| Carbon tetrachloride | 27.6 | 0.50 | ug/l | 25.0 | ND | 110 | 65-147 | 2 | 35 | |
| Chlorobenzene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 0.3 | 30 | |
| Chloroethane | 24.1 | 1.0 | ug/l | 25.0 | ND | 96 | 57-139 | 1 | 35 | |
| Chloroform | 24.1 | 0.50 | ug/l | 25.0 | ND | 97 | 63-131 | 0.4 | 33 | |
| Chloromethane | 26.1 | 1.0 | ug/l | 25.0 | ND | 105 | 47-134 | 4 | 35 | |
| 2-Chlorotoluene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 71-131 | 0.7 | 29 | |
| 4-Chlorotoluene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 70-130 | 3 | 28 | |
| Dibromochloromethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 65-134 | 0.2 | 33 | |
| 1,2-Dibromo-3-chloropropane | 36.2 | 5.0 | ug/l | 25.0 | ND | 145 | 53-145 | 0.6 | 35 | *V1* |
| 1,2-Dibromoethane (EDB) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 0.2 | 33 | |
| Dibromomethane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 66-136 | 2 | 35 | |
| 1,2-Dichlorobenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 70-130 | 1 | 27 | |
| 1,3-Dichlorobenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 70-130 | 0.7 | 28 | |
| 1,4-Dichlorobenzene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 70-130 | 1 | 26 | |
| Dichlorodifluoromethane | 28.3 | 0.50 | ug/l | 25.0 | ND | 113 | 40-148 | 2 | 35 | |
| 1,1-Dichloroethane | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 62-130 | 0.3 | 34 | |
| 1,2-Dichloroethane | 29.9 | 0.50 | ug/l | 25.0 | ND | 120 | 54-147 | 1 | 35 | |
| 1,1-Dichloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 57-137 | 1 | 35 | |
| cis-1,2-Dichloroethene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 65-127 | 2 | 34 | |
| trans-1,2-Dichloroethene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 62-131 | 0.5 | 35 | |
| 1,2-Dichloropropane | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 68-126 | 3 | 32 | |
| 1,3-Dichloropropane | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 68-129 | 0.2 | 33 | |
| 2,2-Dichloropropane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 60-146 | 6 | 35 | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0698 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/18/2013 (13C0698-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,1-Dichloropropene | 20.7 | 0.50 | ug/l | 25.0 | ND | 83 | 64-134 | 2 | 34 | |
| cis-1,3-Dichloropropene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 63-135 | 1 | 35 | |
| trans-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 58-136 | 0.9 | 35 | |
| Ethylbenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 74-134 | 0.2 | 32 | |
| Hexachlorobutadiene | 23.7 | 1.0 | ug/l | 25.0 | ND | 95 | 69-150 | 0.9 | 32 | |
| 2-Hexanone | 27.2 | 2.5 | ug/l | 25.0 | ND | 109 | 40-142 | 0.2 | 35 | |
| Iodomethane | 26.4 | 2.5 | ug/l | 25.0 | ND | 106 | 53-150 | 1 | 35 | |
| Isopropylbenzene | 27.3 | 0.50 | ug/l | 25.0 | ND | 109 | 80-146 | 2 | 32 | |
| p-Isopropyltoluene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 70-133 | 1 | 32 | |
| Methylene Chloride | 21.8 | 1.0 | ug/l | 25.0 | ND | 87 | 55-133 | 2 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 28.0 | 5.0 | ug/l | 25.0 | ND | 112 | 52-143 | 5 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 67-138 | 4 | 21 | |
| Naphthalene | 25.3 | 5.0 | ug/l | 25.0 | ND | 101 | 67-146 | 0.6 | 29 | |
| n-Propylbenzene | 26.4 | 0.50 | ug/l | 25.0 | ND | 105 | 74-140 | 2 | 32 | |
| Styrene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 43-144 | 2 | 35 | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 63-137 | 1 | 32 | |
| Tetrachloroethene | 23.7 | 0.50 | ug/l | 25.0 | ND | 95 | 67-131 | 0.4 | 31 | |
| Toluene | 22.4 | 0.50 | ug/l | 25.0 | ND | 90 | 65-138 | 2 | 33 | |
| 1,2,3-Trichlorobenzene | 21.4 | 1.0 | ug/l | 25.0 | ND | 85 | 74-139 | 1 | 26 | |
| 1,2,4-Trichlorobenzene | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 74-138 | 0.6 | 26 | |
| 1,1,1-Trichloroethane | 27.9 | 0.50 | ug/l | 25.0 | ND | 111 | 64-138 | 0.6 | 35 | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 93 | 63-132 | 2 | 35 | |
| Trichloroethene | 24.1 | 0.50 | ug/l | 25.0 | 0.500 | 94 | 66-132 | 4 | 29 | |
| Trichlorofluoromethane | 33.5 | 0.50 | ug/l | 25.0 | ND | 134 | 62-150 | 3 | 35 | |
| 1,2,3-Trichloropropane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 68-130 | 4 | 32 | |
| 1,2,4-Trimethylbenzene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 63-135 | 1 | 31 | |
| 1,3,5-Trimethylbenzene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 66-137 | 2 | 30 | |
| Vinyl Acetate | 36.9 | 2.0 | ug/l | 25.0 | ND | 148 | 47-150 | 4 | 35 | |
| Vinyl chloride | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 55-146 | 0.1 | 35 | |
| Xylenes, Total | 47.2 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | 1 | 31 | |
| Freon 113 | 21.8 | 2.0 | ug/l | 25.0 | ND | 87 | 52-149 | 2 | 35 | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0690 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/23/2013 (13C0690-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.18* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.9* | | *ug/l* | *20.0* | | *90* | *27-143* | | | |
| **LCS Analyzed: 03/23/2013 (13C0690-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 112 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.23* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.8* | | *ug/l* | *20.0* | | *84* | *28-150* | | | |
| **LCS Dup Analyzed: 03/23/2013 (13C0690-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | 0.1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.64* | | *ug/l* | *20.0* | | *28* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/23/2013 (13C0690-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,4-Dioxane | 24.2 | 1.0 | ug/l | 21.2 | ND | 114 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.26* | | *ug/l* | *21.2* | | *30* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.4* | | *ug/l* | *21.2* | | *87* | *27-143* | | | |
| **Matrix Spike Analyzed: 03/23/2013 (13C0690-MS2)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,4-Dioxane | 26.2 | 1.0 | ug/l | 22.0 | 2.09 | 110 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.53* | | *ug/l* | *22.0* | | *25* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *22.0* | | *73* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/23/2013 (13C0690-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,4-Dioxane | 23.4 | 1.0 | ug/l | 20.9 | ND | 112 | 65-138 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.33* | | *ug/l* | *20.9* | | *25* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.9* | | *79* | *27-143* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0690 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/23/2013 (13C0690-MSD2)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,4-Dioxane | 25.4 | 1.0 | ug/l | 21.3 | 2.09 | 110 | 65-138 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.78* | | *ug/l* | *21.3* | | *32* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.7* | | *ug/l* | *21.3* | | *97* | *27-143* | | | |

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Project Manager

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| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/14/13 |
| Scottsdale, AZ 85251 | Report Number: PWC1003 | Received: 03/14/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **N1** | See case narrative. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

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Project Manager

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1003

Sampled: 03/14/13
Received: 03/14/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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# Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

PWC1003

TAL-4124-280 (0508)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| FAM | jason.[illegible]@arm.com | 3/14/13 | 170056 |
| **Address** | **Telephone Number (Area Code)/Fax Number** | **Lab Number** | **Page 1 of 1** |
| 7272 E Indian School Rd #100 | 480-948-2400 | | |

| City | State | Zip Code | Site Contact | Lab Contact |
|---|---|---|---|---|
| Scottsdale | AZ | 85251 | A Nash 651-203-3871 | Kylie |

| Project Name and Location (State) | Carrier/Waybill Number |
|---|---|
| OUS AZ | |

Contract/Purchase Order/Quote No.: 0096-098

Analysis (Attach list if more space is needed): Pesticides, Lab Pack-3330, MS/MSD

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Air | Aqueous | Sed. | Soil | | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | Pesticides | Lab Pack-3330 | MS/MSD | | | | | | | | | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OW3-20S-S-031413-MS/MSD | 3/14/13 | 0817 | | X | | | | 4 | | | 6 | | | | X | X | X | | | -01 | | | | | | |
| OW3-20M-M-031413 | 3/14/13 | 1000 | | X | | | | 2 | | | 3 | | | | X | X | | | | -02 | | | | | | |
| OW3-13M-M-031413 | 3/14/13 | 1545 | | X | | | | 2 | | | 3 | | | | X | X | | | | -03 | | | | | | |
| OW3-13D-M-031413-QC | 3/14/13 | 1548 | | X | | | | 2 | | | 3 | | | | X | X | | | | -04 | | | | | | |
| OW3-2R-[illegible]-031413 | 3/14/13 | [illegible] | | X | | | | 2 | | | 3 | | | | X | X | | | | -05 | | | | | | |
| OW3-[illegible]-031413 | 3/14/13 | — | | X | | | | | | | 1 | | | | X | | | | | -06 | | | | | | Trip Blank |

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

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Normal

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: [signature] / FAM | 3/14/13 | 1700 | 1. Received By | | |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By: Sharon Malone | 3/14/13 | 1700 |

Comments: 1.4°C 2.2°C

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

# LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498

Sampled: 03/15/13
Received: 03/15/13
Revised: 04/23/13 16:49

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| PWC1068-01 | EW-19D-D-031513 | Water |
| PWC1068-02 | EW-19S-S-031513 | Water |
| PWC1068-03 | EW-19S-S-031513-Q1 | Water |
| PWC1068-04 | OU3-2M-M-031513-MS/MSD | Water |
| PWC1068-05 | GW-EB11-031513 | Water |
| PWC1068-06 | GW-L1-9-031513 | Water |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

| | |
|---|---|
| SAMPLE RECEIPT: | Samples were received intact, at 2°C, on ice and with chain of custody documentation. |
| HOLDING TIMES: | Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.<br>H4-Sample was extracted past required extraction holding time, but analyzed within analysis holding time for confirmation only; both sets of data are reported. |
| PRESERVATION: | Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements. |
| QA/QC CRITERIA: | All analyses met method criteria, except as noted in the report with data qualifiers.<br>N1-The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits. All associated samples are non-detect for this compound and therefore should not be impacted.<br>L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.<br>L4-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.<br>S7-Surrogate recovery was below acceptance limits. |
| COMMENTS: | No significant observations were made. |
| SUBCONTRACTED: | No analyses were subcontracted to an outside laboratory. |
| ADDITIONAL INFORMATION: | Report revised on 04/23/13 due to QAPP changes. |

Reviewed By:

Tina Paulauskas

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-01 (EW-19D-D-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0907 | 20 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Benzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromoform | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromomethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon disulfide | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroform | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloromethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromomethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Ethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

**Sample ID: PWC1068-01 (EW-19D-D-031513 - Water) - cont.**

**Reporting Units: ug/l**

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Iodomethane | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methylene Chloride | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Naphthalene | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Styrene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Toluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L4 |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Trichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Xylenes, Total | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Freon 113 | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *93 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-02 (EW-19S-S-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0907 | 20 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Benzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromoform | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromomethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon disulfide | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Chloroform** | EPA 8260B | 13C0907 | 0.50 | **2.1** | 1 | 3/22/2013 | 3/22/2013 | |
| Chloromethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromomethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0907 | 0.50 | **1.6** | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0907 | 0.50 | **2.2** | 1 | 3/22/2013 | 3/22/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0907 | 0.50 | **2.2** | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Ethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-02 (EW-19S-S-031513 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Iodomethane | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methylene Chloride | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Naphthalene | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Styrene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0907 | 0.50 | **0.63** | 1 | 3/22/2013 | 3/22/2013 | |
| Toluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L4 |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0907 | 0.50 | **9.4** | 1 | 3/22/2013 | 3/22/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Xylenes, Total | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Freon 113 | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-03 (EW-19S-S-031513-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0907 | 20 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Benzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromoform | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromomethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon disulfide | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Chloroform** | EPA 8260B | 13C0907 | 0.50 | **2.2** | 1 | 3/22/2013 | 3/22/2013 | |
| Chloromethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromomethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0907 | 0.50 | **1.7** | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0907 | 0.50 | **2.3** | 1 | 3/22/2013 | 3/22/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0907 | 0.50 | **2.3** | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Ethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-03 (EW-19S-S-031513-Q1 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Iodomethane | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methylene Chloride | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Naphthalene | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Styrene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0907 | 0.50 | **0.57** | 1 | 3/22/2013 | 3/22/2013 | |
| Toluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L4 |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0907 | 0.50 | **9.3** | 1 | 3/22/2013 | 3/22/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Xylenes, Total | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Freon 113 | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *95 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-04 (OU3-2M-M-031513-MS/MSD - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0907 | 20 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Benzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromoform | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromomethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon disulfide | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Chloroform** | EPA 8260B | 13C0907 | 0.50 | **1.6** | 1 | 3/22/2013 | 3/22/2013 | |
| Chloromethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromomethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **1,1-Dichloroethane** | EPA 8260B | 13C0907 | 0.50 | **2.8** | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **1,1-Dichloroethene** | EPA 8260B | 13C0907 | 0.50 | **4.6** | 1 | 3/22/2013 | 3/22/2013 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | 13C0907 | 0.50 | **4.9** | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Ethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-04 (OU3-2M-M-031513-MS/MSD - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Iodomethane | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methylene Chloride | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Naphthalene | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Styrene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Tetrachloroethene** | EPA 8260B | 13C0907 | 0.50 | **1.2** | 1 | 3/22/2013 | 3/22/2013 | |
| Toluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L4 |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Trichloroethene** | EPA 8260B | 13C0907 | 0.50 | **25** | 1 | 3/22/2013 | 3/22/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L3, N1 |
| Vinyl chloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Xylenes, Total | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Freon 113 | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *96 %* | | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-05 (GW-EB11-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0907 | 20 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Benzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Bromodichloromethane** | EPA 8260B | 13C0907 | 0.50 | **2.1** | 1 | 3/22/2013 | 3/22/2013 | |
| Bromoform | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromomethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon disulfide | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Chloroform** | EPA 8260B | 13C0907 | 0.50 | **1.7** | 1 | 3/22/2013 | 3/22/2013 | |
| Chloromethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| **Dibromochloromethane** | EPA 8260B | 13C0907 | 0.50 | **2.4** | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromomethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Ethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-05 (GW-EB11-031513 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Iodomethane | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methylene Chloride | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Naphthalene | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Styrene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Toluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L4 |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Trichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Xylenes, Total | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Freon 113 | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *97 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *96 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *96 %* | | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-06 (GW-L1-9-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Acetone | EPA 8260B | 13C0907 | 20 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Benzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromodichloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromoform | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Bromomethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Butanone (MEK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| sec-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| tert-Butylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon disulfide | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Carbon tetrachloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloroform | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Chloromethane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Chlorotoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromochloromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | V1 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dibromomethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,4-Dichlorobenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Dichlorodifluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,2-Dichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3-Dichloropropane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 2,2-Dichloropropane | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| cis-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| trans-1,3-Dichloropropene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Ethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Hexachlorobutadiene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-06 (GW-L1-9-031513 - Water) - cont.** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 2-Hexanone | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Iodomethane | EPA 8260B | 13C0907 | 2.5 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Isopropylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| p-Isopropyltoluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methylene Chloride | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Naphthalene | EPA 8260B | 13C0907 | 5.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| n-Propylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Styrene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Tetrachloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Toluene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L4 |
| 1,2,4-Trichlorobenzene | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,1-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,1,2-Trichloroethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Trichloroethene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Trichlorofluoromethane | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,3-Trichloropropane | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Vinyl Acetate | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | L3 |
| Vinyl chloride | EPA 8260B | 13C0907 | 0.50 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Xylenes, Total | EPA 8260B | 13C0907 | 1.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| Freon 113 | EPA 8260B | 13C0907 | 2.0 | ND | 1 | 3/22/2013 | 3/22/2013 | |
| *Surrogate: Dibromofluoromethane (70-130%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (70-130%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (70-130%)* | | | | *94 %* | | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

# 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PWC1068-01 (EW-19D-D-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.0 | ND | 1 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *30 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *96 %* | | | | |
| **Sample ID: PWC1068-02 (EW-19S-S-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0690 | 1.0 | **1.2** | 1 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *33 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *95 %* | | | | |
| **Sample ID: PWC1068-03 (EW-19S-S-031513-Q1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0690 | 1.0 | **1.4** | 1.05 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *5 %* | | | | *S7* |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *16 %* | | | | *S7* |
| **Sample ID: PWC1068-03RE1 (EW-19S-S-031513-Q1 - Water)** | | | | | | | | **H4** |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C1112 | 1.0 | **1.4** | 1.03 | 3/27/2013 | 3/29/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *53 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *63 %* | | | | |
| **Sample ID: PWC1068-04 (OU3-2M-M-031513-MS/MSD - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **1,4-Dioxane** | EPA 8270C | 13C0690 | 1.0 | **2.1** | 1.08 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *32 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *80 %* | | | | |
| **Sample ID: PWC1068-05 (GW-EB11-031513 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| 1,4-Dioxane | EPA 8270C | 13C0690 | 1.1 | ND | 1.12 | 3/18/2013 | 3/23/2013 | |
| *Surrogate: 1,4-Dioxane-d8 (14-125%)* | | | | *37 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (27-143%)* | | | | *95 %* | | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **Blank Analyzed: 03/22/2013 (13C0907-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/l | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/l | | | | | | | |
| Bromoform | ND | 1.0 | ug/l | | | | | | | |
| Bromomethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Carbon disulfide | ND | 1.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/l | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Chloroethane | ND | 1.0 | ug/l | | | | | | | |
| Chloroform | ND | 0.50 | ug/l | | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | *V1* |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/l | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **Blank Analyzed: 03/22/2013 (13C0907-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 2.5 | ug/l | | | | | | | |
| Iodomethane | ND | 2.5 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/l | | | | | | | |
| Methylene Chloride | ND | 1.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.50 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Styrene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/l | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Vinyl Acetate | ND | 2.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Freon 113 | ND | 2.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *70-130* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **LCS Analyzed: 03/22/2013 (13C0907-BS1)** | | | | | | | | | | |
| Acetone | 32.0 | 20 | ug/l | 25.0 | | 128 | 38-150 | | | |
| Benzene | 22.9 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Bromobenzene | 23.1 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Bromochloromethane | 21.3 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | | | |
| Bromodichloromethane | 28.4 | 0.50 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Bromoform | 23.6 | 1.0 | ug/l | 25.0 | | 94 | 69-129 | | | |
| Bromomethane | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 57-138 | | | |
| 2-Butanone (MEK) | 23.6 | 5.0 | ug/l | 25.0 | | 94 | 53-150 | | | |
| n-Butylbenzene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| sec-Butylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | | | |
| tert-Butylbenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| Carbon disulfide | 20.5 | 1.0 | ug/l | 25.0 | | 82 | 64-145 | | | |
| Carbon tetrachloride | 30.4 | 0.50 | ug/l | 25.0 | | 122 | 70-143 | | | |
| Chlorobenzene | 23.2 | 0.50 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Chloroethane | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 66-131 | | | |
| Chloroform | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Chloromethane | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 56-129 | | | |
| 2-Chlorotoluene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| 4-Chlorotoluene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Dibromochloromethane | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 30.2 | 5.0 | ug/l | 25.0 | | 121 | 63-146 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 24.6 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| Dibromomethane | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| 1,2-Dichlorobenzene | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| 1,3-Dichlorobenzene | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| 1,4-Dichlorobenzene | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| Dichlorodifluoromethane | 31.5 | 0.50 | ug/l | 25.0 | | 126 | 46-144 | | | |
| 1,1-Dichloroethane | 22.1 | 0.50 | ug/l | 25.0 | | 89 | 70-130 | | | |
| 1,2-Dichloroethane | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 66-139 | | | |
| 1,1-Dichloroethene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 63-131 | | | |
| cis-1,2-Dichloroethene | 21.2 | 0.50 | ug/l | 25.0 | | 85 | 70-130 | | | |
| trans-1,2-Dichloroethene | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 69-127 | | | |
| 1,2-Dichloropropane | 21.9 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | | | |
| 1,3-Dichloropropane | 23.1 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | | | |
| 2,2-Dichloropropane | 28.0 | 1.0 | ug/l | 25.0 | | 112 | 69-139 | | | |

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **LCS Analyzed: 03/22/2013 (13C0907-BS1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| cis-1,3-Dichloropropene | 25.2 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| trans-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | | | |
| Ethylbenzene | 25.7 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | | | |
| Hexachlorobutadiene | 23.0 | 1.0 | ug/l | 25.0 | | 92 | 76-145 | | | |
| 2-Hexanone | 27.0 | 2.5 | ug/l | 25.0 | | 108 | 55-150 | | | |
| Iodomethane | 25.5 | 2.5 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Isopropylbenzene | 26.6 | 0.50 | ug/l | 25.0 | | 107 | 88-141 | | | |
| p-Isopropyltoluene | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | | | |
| Methylene Chloride | 20.0 | 1.0 | ug/l | 25.0 | | 80 | 63-128 | | | |
| 4-Methyl-2-pentanone (MIBK) | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 64-142 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Naphthalene | 20.7 | 5.0 | ug/l | 25.0 | | 83 | 78-143 | | | |
| n-Propylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Styrene | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 20.3 | 0.50 | ug/l | 25.0 | | 81 | 70-130 | | | |
| Tetrachloroethene | 23.9 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Toluene | 22.8 | 0.50 | ug/l | 25.0 | | 91 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 19.0 | 1.0 | ug/l | 25.0 | | 76 | 79-139 | | | *L4* |
| 1,2,4-Trichlorobenzene | 20.8 | 1.0 | ug/l | 25.0 | | 83 | 80-137 | | | |
| 1,1,1-Trichloroethane | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 71-131 | | | |
| 1,1,2-Trichloroethane | 22.0 | 0.50 | ug/l | 25.0 | | 88 | 70-130 | | | |
| Trichloroethene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | | | |
| Trichlorofluoromethane | 34.0 | 0.50 | ug/l | 25.0 | | 136 | 69-150 | | | |
| 1,2,3-Trichloropropane | 24.8 | 2.0 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | | 99 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 25.1 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Vinyl Acetate | 39.4 | 2.0 | ug/l | 25.0 | | 157 | 67-148 | | | *L3* |
| Vinyl chloride | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 65-137 | | | |
| Xylenes, Total | 47.2 | 1.0 | ug/l | 50.0 | | 94 | 70-130 | | | |
| Freon 113 | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 65-139 | | | |
| *Surrogate: Dibromofluoromethane* | *23.2* | | *ug/l* | *25.0* | | *93* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *70-130* | | | |

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/22/2013 (13C0907-BSD1)** | | | | | | | | | | |
| Acetone | 28.8 | 20 | ug/l | 25.0 | | 115 | 38-150 | 11 | 35 | |
| Benzene | 23.6 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 3 | 20 | |
| Bromobenzene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| Bromochloromethane | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 9 | 20 | |
| Bromodichloromethane | 30.1 | 0.50 | ug/l | 25.0 | | 120 | 70-130 | 6 | 20 | |
| Bromoform | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 69-129 | 5 | 20 | |
| Bromomethane | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 57-138 | 5 | 20 | |
| 2-Butanone (MEK) | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 53-150 | 7 | 35 | |
| n-Butylbenzene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 0.4 | 20 | |
| sec-Butylbenzene | 25.3 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 3 | 20 | |
| tert-Butylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 5 | 20 | |
| Carbon disulfide | 20.8 | 1.0 | ug/l | 25.0 | | 83 | 64-145 | 2 | 33 | |
| Carbon tetrachloride | 31.6 | 0.50 | ug/l | 25.0 | | 126 | 70-143 | 4 | 20 | |
| Chlorobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 2 | 20 | |
| Chloroethane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 66-131 | 6 | 20 | |
| Chloroform | 26.9 | 0.50 | ug/l | 25.0 | | 108 | 70-130 | 8 | 20 | |
| Chloromethane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 56-129 | 4 | 20 | |
| 2-Chlorotoluene | 25.4 | 0.50 | ug/l | 25.0 | | 101 | 70-130 | 5 | 20 | |
| 4-Chlorotoluene | 25.6 | 0.50 | ug/l | 25.0 | | 102 | 70-130 | 4 | 20 | |
| Dibromochloromethane | 27.3 | 0.50 | ug/l | 25.0 | | 109 | 70-130 | 6 | 20 | |
| 1,2-Dibromo-3-chloropropane | 32.2 | 5.0 | ug/l | 25.0 | | 129 | 63-146 | 6 | 22 | *V1* |
| 1,2-Dibromoethane (EDB) | 25.0 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 2 | 20 | |
| Dibromomethane | 26.4 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 4 | 20 | |
| 1,2-Dichlorobenzene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 5 | 20 | |
| 1,3-Dichlorobenzene | 24.5 | 0.50 | ug/l | 25.0 | | 98 | 70-130 | 5 | 20 | |
| 1,4-Dichlorobenzene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 4 | 20 | |
| Dichlorodifluoromethane | 33.7 | 0.50 | ug/l | 25.0 | | 135 | 46-144 | 7 | 23 | |
| 1,1-Dichloroethane | 23.5 | 0.50 | ug/l | 25.0 | | 94 | 70-130 | 6 | 20 | |
| 1,2-Dichloroethane | 32.9 | 0.50 | ug/l | 25.0 | | 132 | 66-139 | 9 | 20 | |
| 1,1-Dichloroethene | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 63-131 | 3 | 22 | |
| cis-1,2-Dichloroethene | 22.9 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 8 | 20 | |
| trans-1,2-Dichloroethene | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 69-127 | 4 | 20 | |
| 1,2-Dichloropropane | 23.0 | 0.50 | ug/l | 25.0 | | 92 | 70-130 | 5 | 20 | |
| 1,3-Dichloropropane | 24.9 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 7 | 20 | |
| 2,2-Dichloropropane | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 69-139 | 4 | 20 | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/22/2013 (13C0907-BSD1)** | | | | | | | | | | |
| 1,1-Dichloropropene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 1 | 20 | |
| cis-1,3-Dichloropropene | 25.8 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 2 | 20 | |
| trans-1,3-Dichloropropene | 27.8 | 0.50 | ug/l | 25.0 | | 111 | 70-130 | 2 | 20 | |
| Ethylbenzene | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 2 | 20 | |
| Hexachlorobutadiene | 23.5 | 1.0 | ug/l | 25.0 | | 94 | 76-145 | 2 | 20 | |
| 2-Hexanone | 26.0 | 2.5 | ug/l | 25.0 | | 104 | 55-150 | 4 | 35 | |
| Iodomethane | 26.9 | 2.5 | ug/l | 25.0 | | 108 | 70-130 | 5 | 20 | |
| Isopropylbenzene | 27.9 | 0.50 | ug/l | 25.0 | | 112 | 88-141 | 5 | 20 | |
| p-Isopropyltoluene | 24.3 | 0.50 | ug/l | 25.0 | | 97 | 70-130 | 4 | 20 | |
| Methylene Chloride | 21.9 | 1.0 | ug/l | 25.0 | | 88 | 63-128 | 9 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 64-142 | 8 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 6 | 20 | |
| Naphthalene | 22.6 | 5.0 | ug/l | 25.0 | | 91 | 78-143 | 9 | 20 | |
| n-Propylbenzene | 26.6 | 0.50 | ug/l | 25.0 | | 106 | 70-130 | 4 | 20 | |
| Styrene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 4 | 20 | |
| 1,1,1,2-Tetrachloroethane | 26.2 | 0.50 | ug/l | 25.0 | | 105 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | 21.6 | 0.50 | ug/l | 25.0 | | 86 | 70-130 | 6 | 20 | |
| Tetrachloroethene | 24.1 | 0.50 | ug/l | 25.0 | | 96 | 70-130 | 0.9 | 20 | |
| Toluene | 23.8 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 4 | 20 | |
| 1,2,3-Trichlorobenzene | 20.1 | 1.0 | ug/l | 25.0 | | 80 | 79-139 | 6 | 20 | |
| 1,2,4-Trichlorobenzene | 21.8 | 1.0 | ug/l | 25.0 | | 87 | 80-137 | 4 | 20 | |
| 1,1,1-Trichloroethane | 29.6 | 0.50 | ug/l | 25.0 | | 118 | 71-131 | 6 | 20 | |
| 1,1,2-Trichloroethane | 23.6 | 0.50 | ug/l | 25.0 | | 95 | 70-130 | 7 | 20 | |
| Trichloroethene | 25.1 | 0.50 | ug/l | 25.0 | | 100 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | 34.9 | 0.50 | ug/l | 25.0 | | 140 | 69-150 | 3 | 22 | |
| 1,2,3-Trichloropropane | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 3 | 20 | |
| 1,2,4-Trimethylbenzene | 25.6 | 0.50 | ug/l | 25.0 | | 103 | 70-130 | 4 | 20 | |
| 1,3,5-Trimethylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 70-130 | 3 | 20 | |
| Vinyl Acetate | 38.2 | 2.0 | ug/l | 25.0 | | 153 | 67-148 | 3 | 22 | *L3* |
| Vinyl chloride | 27.0 | 0.50 | ug/l | 25.0 | | 108 | 65-137 | 3 | 20 | |
| Xylenes, Total | 48.4 | 1.0 | ug/l | 50.0 | | 97 | 70-130 | 2 | 20 | |
| Freon 113 | 27.6 | 2.0 | ug/l | 25.0 | | 111 | 65-139 | 3 | 27 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *23.9* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-130* | | | |

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Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/22/2013 (13C0907-MS1)** | | | | | **Source: PWC1068-04** | | | | | |
| Acetone | 28.0 | 20 | ug/l | 25.0 | ND | 112 | 29-139 | | | |
| Benzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 93 | 68-131 | | | |
| Bromobenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | | | |
| Bromochloromethane | 22.0 | 0.50 | ug/l | 25.0 | ND | 88 | 64-132 | | | |
| Bromodichloromethane | 29.4 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | | | |
| Bromoform | 25.1 | 1.0 | ug/l | 25.0 | ND | 100 | 60-128 | | | |
| Bromomethane | 23.9 | 1.0 | ug/l | 25.0 | ND | 95 | 47-144 | | | |
| 2-Butanone (MEK) | 25.3 | 5.0 | ug/l | 25.0 | ND | 101 | 31-143 | | | |
| n-Butylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | | | |
| sec-Butylbenzene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 72-136 | | | |
| tert-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 74-135 | | | |
| Carbon disulfide | 21.2 | 1.0 | ug/l | 25.0 | ND | 85 | 45-150 | | | |
| Carbon tetrachloride | 32.5 | 0.50 | ug/l | 25.0 | ND | 130 | 65-147 | | | |
| Chlorobenzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | | | |
| Chloroethane | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 57-139 | | | |
| Chloroform | 27.6 | 0.50 | ug/l | 25.0 | 1.55 | 104 | 63-131 | | | |
| Chloromethane | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 47-134 | | | |
| 2-Chlorotoluene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 71-131 | | | |
| 4-Chlorotoluene | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Dibromochloromethane | 27.4 | 0.50 | ug/l | 25.0 | ND | 110 | 65-134 | | | |
| 1,2-Dibromo-3-chloropropane | 31.5 | 5.0 | ug/l | 25.0 | ND | 126 | 53-145 | | | *V1* |
| 1,2-Dibromoethane (EDB) | 25.2 | 0.50 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| Dibromomethane | 26.8 | 0.50 | ug/l | 25.0 | ND | 107 | 66-136 | | | |
| 1,2-Dichlorobenzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | | | |
| 1,3-Dichlorobenzene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-130 | | | |
| 1,4-Dichlorobenzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | | | |
| Dichlorodifluoromethane | 31.8 | 0.50 | ug/l | 25.0 | ND | 127 | 40-148 | | | |
| 1,1-Dichloroethane | 26.2 | 0.50 | ug/l | 25.0 | 2.84 | 93 | 62-130 | | | |
| 1,2-Dichloroethane | 31.8 | 0.50 | ug/l | 25.0 | ND | 127 | 54-147 | | | |
| 1,1-Dichloroethene | 28.2 | 0.50 | ug/l | 25.0 | 4.62 | 94 | 57-137 | | | |
| cis-1,2-Dichloroethene | 27.0 | 0.50 | ug/l | 25.0 | 4.89 | 88 | 65-127 | | | |
| trans-1,2-Dichloroethene | 21.9 | 0.50 | ug/l | 25.0 | ND | 87 | 62-131 | | | |
| 1,2-Dichloropropane | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 68-126 | | | |
| 1,3-Dichloropropane | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 68-129 | | | |
| 2,2-Dichloropropane | 29.4 | 1.0 | ug/l | 25.0 | ND | 118 | 60-146 | | | |

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Tina Paulauskas For Vic Nielsen
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/22/2013 (13C0907-MS1)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,1-Dichloropropene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 64-134 | | | |
| cis-1,3-Dichloropropene | 25.4 | 0.50 | ug/l | 25.0 | ND | 102 | 63-135 | | | |
| trans-1,3-Dichloropropene | 27.9 | 0.50 | ug/l | 25.0 | ND | 112 | 58-136 | | | |
| Ethylbenzene | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 74-134 | | | |
| Hexachlorobutadiene | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 69-150 | | | |
| 2-Hexanone | 27.4 | 2.5 | ug/l | 25.0 | ND | 110 | 40-142 | | | |
| Iodomethane | 25.4 | 2.5 | ug/l | 25.0 | ND | 102 | 53-150 | | | |
| Isopropylbenzene | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 80-146 | | | |
| p-Isopropyltoluene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-133 | | | |
| Methylene Chloride | 21.0 | 1.0 | ug/l | 25.0 | ND | 84 | 55-133 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.9 | 5.0 | ug/l | 25.0 | ND | 120 | 52-143 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.2 | 0.50 | ug/l | 25.0 | ND | 105 | 67-138 | | | |
| Naphthalene | 22.8 | 5.0 | ug/l | 25.0 | ND | 91 | 67-146 | | | |
| n-Propylbenzene | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 74-140 | | | |
| Styrene | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 43-144 | | | |
| 1,1,1,2-Tetrachloroethane | 25.8 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 21.7 | 0.50 | ug/l | 25.0 | ND | 87 | 63-137 | | | |
| Tetrachloroethene | 25.0 | 0.50 | ug/l | 25.0 | 1.17 | 95 | 67-131 | | | |
| Toluene | 23.5 | 0.50 | ug/l | 25.0 | ND | 94 | 65-138 | | | |
| 1,2,3-Trichlorobenzene | 20.1 | 1.0 | ug/l | 25.0 | ND | 80 | 74-139 | | | |
| 1,2,4-Trichlorobenzene | 21.7 | 1.0 | ug/l | 25.0 | ND | 87 | 74-138 | | | |
| 1,1,1-Trichloroethane | 29.3 | 0.50 | ug/l | 25.0 | ND | 117 | 64-138 | | | |
| 1,1,2-Trichloroethane | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 63-132 | | | |
| Trichloroethene | 49.5 | 0.50 | ug/l | 25.0 | 25.5 | 96 | 66-132 | | | |
| Trichlorofluoromethane | 35.8 | 0.50 | ug/l | 25.0 | ND | 143 | 62-150 | | | |
| 1,2,3-Trichloropropane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 68-130 | | | |
| 1,2,4-Trimethylbenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 63-135 | | | |
| 1,3,5-Trimethylbenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 100 | 66-137 | | | |
| Vinyl Acetate | 40.0 | 2.0 | ug/l | 25.0 | ND | 160 | 47-150 | | | *N1* |
| Vinyl chloride | 26.6 | 0.50 | ug/l | 25.0 | ND | 106 | 55-146 | | | |
| Xylenes, Total | 47.4 | 1.0 | ug/l | 50.0 | ND | 95 | 68-131 | | | |
| Freon 113 | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 52-149 | | | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *95* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-130* | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/22/2013 (13C0907-MSD1)** | | | | | **Source: PWC1068-04** | | | | | |
| Acetone | 27.9 | 20 | ug/l | 25.0 | ND | 112 | 29-139 | 0.5 | 35 | |
| Benzene | 23.4 | 0.50 | ug/l | 25.0 | ND | 94 | 68-131 | 0.2 | 32 | |
| Bromobenzene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 4 | 28 | |
| Bromochloromethane | 22.0 | 0.50 | ug/l | 25.0 | ND | 88 | 64-132 | 0.2 | 35 | |
| Bromodichloromethane | 29.5 | 0.50 | ug/l | 25.0 | ND | 118 | 63-138 | 0.1 | 31 | |
| Bromoform | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 60-128 | 4 | 31 | |
| Bromomethane | 23.8 | 1.0 | ug/l | 25.0 | ND | 95 | 47-144 | 0.1 | 35 | |
| 2-Butanone (MEK) | 23.2 | 5.0 | ug/l | 25.0 | ND | 93 | 31-143 | 9 | 35 | |
| n-Butylbenzene | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 69-140 | 0.2 | 32 | |
| sec-Butylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 72-136 | 2 | 33 | |
| tert-Butylbenzene | 24.5 | 0.50 | ug/l | 25.0 | ND | 98 | 74-135 | 0.8 | 32 | |
| Carbon disulfide | 21.5 | 1.0 | ug/l | 25.0 | ND | 86 | 45-150 | 1 | 35 | |
| Carbon tetrachloride | 32.0 | 0.50 | ug/l | 25.0 | ND | 128 | 65-147 | 2 | 35 | |
| Chlorobenzene | 23.0 | 0.50 | ug/l | 25.0 | ND | 92 | 70-130 | 1 | 30 | |
| Chloroethane | 24.8 | 1.0 | ug/l | 25.0 | ND | 99 | 57-139 | 3 | 35 | |
| Chloroform | 28.0 | 0.50 | ug/l | 25.0 | 1.55 | 106 | 63-131 | 1 | 33 | |
| Chloromethane | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 47-134 | 3 | 35 | |
| 2-Chlorotoluene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 71-131 | 0.9 | 29 | |
| 4-Chlorotoluene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 70-130 | 2 | 28 | |
| Dibromochloromethane | 26.9 | 0.50 | ug/l | 25.0 | ND | 108 | 65-134 | 2 | 33 | |
| 1,2-Dibromo-3-chloropropane | 33.1 | 5.0 | ug/l | 25.0 | ND | 132 | 53-145 | 5 | 35 | *V1* |
| 1,2-Dibromoethane (EDB) | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 70-130 | 0.8 | 33 | |
| Dibromomethane | 25.9 | 0.50 | ug/l | 25.0 | ND | 104 | 66-136 | 3 | 35 | |
| 1,2-Dichlorobenzene | 23.3 | 0.50 | ug/l | 25.0 | ND | 93 | 70-130 | 0.5 | 27 | |
| 1,3-Dichlorobenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 70-130 | 1 | 28 | |
| 1,4-Dichlorobenzene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 70-130 | 3 | 26 | |
| Dichlorodifluoromethane | 33.9 | 0.50 | ug/l | 25.0 | ND | 136 | 40-148 | 6 | 35 | |
| 1,1-Dichloroethane | 25.8 | 0.50 | ug/l | 25.0 | 2.84 | 92 | 62-130 | 2 | 34 | |
| 1,2-Dichloroethane | 32.9 | 0.50 | ug/l | 25.0 | ND | 131 | 54-147 | 3 | 35 | |
| 1,1-Dichloroethene | 29.2 | 0.50 | ug/l | 25.0 | 4.62 | 98 | 57-137 | 4 | 35 | |
| cis-1,2-Dichloroethene | 27.5 | 0.50 | ug/l | 25.0 | 4.89 | 90 | 65-127 | 2 | 34 | |
| trans-1,2-Dichloroethene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 62-131 | 4 | 35 | |
| 1,2-Dichloropropane | 22.6 | 0.50 | ug/l | 25.0 | ND | 90 | 68-126 | 1 | 32 | |
| 1,3-Dichloropropane | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 68-129 | 4 | 33 | |
| 2,2-Dichloropropane | 28.5 | 1.0 | ug/l | 25.0 | ND | 114 | 60-146 | 3 | 35 | |

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0907 Extracted: 03/22/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/22/2013 (13C0907-MSD1)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,1-Dichloropropene | 24.0 | 0.50 | ug/l | 25.0 | ND | 96 | 64-134 | 2 | 34 | |
| cis-1,3-Dichloropropene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 63-135 | 2 | 35 | |
| trans-1,3-Dichloropropene | 27.4 | 0.50 | ug/l | 25.0 | ND | 109 | 58-136 | 2 | 35 | |
| Ethylbenzene | 25.1 | 0.50 | ug/l | 25.0 | ND | 101 | 74-134 | 2 | 32 | |
| Hexachlorobutadiene | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 69-150 | 0.04 | 32 | |
| 2-Hexanone | 25.6 | 2.5 | ug/l | 25.0 | ND | 102 | 40-142 | 7 | 35 | |
| Iodomethane | 25.7 | 2.5 | ug/l | 25.0 | ND | 103 | 53-150 | 1 | 35 | |
| Isopropylbenzene | 26.5 | 0.50 | ug/l | 25.0 | ND | 106 | 80-146 | 2 | 32 | |
| p-Isopropyltoluene | 23.8 | 0.50 | ug/l | 25.0 | ND | 95 | 70-133 | 0.2 | 32 | |
| Methylene Chloride | 21.6 | 1.0 | ug/l | 25.0 | ND | 86 | 55-133 | 3 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 28.2 | 5.0 | ug/l | 25.0 | ND | 113 | 52-143 | 6 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 67-138 | 0.7 | 21 | |
| Naphthalene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89 | 67-146 | 2 | 29 | |
| n-Propylbenzene | 25.6 | 0.50 | ug/l | 25.0 | ND | 102 | 74-140 | 1 | 32 | |
| Styrene | 22.0 | 0.50 | ug/l | 25.0 | ND | 88 | 43-144 | 5 | 35 | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 0.50 | ug/l | 25.0 | ND | 103 | 70-130 | 0.6 | 30 | |
| 1,1,2,2-Tetrachloroethane | 21.1 | 0.50 | ug/l | 25.0 | ND | 84 | 63-137 | 3 | 32 | |
| Tetrachloroethene | 25.0 | 0.50 | ug/l | 25.0 | 1.17 | 95 | 67-131 | 0.1 | 31 | |
| Toluene | 23.4 | 0.50 | ug/l | 25.0 | ND | 93 | 65-138 | 0.6 | 33 | |
| 1,2,3-Trichlorobenzene | 19.7 | 1.0 | ug/l | 25.0 | ND | 79 | 74-139 | 2 | 26 | |
| 1,2,4-Trichlorobenzene | 21.6 | 1.0 | ug/l | 25.0 | ND | 86 | 74-138 | 0.5 | 26 | |
| 1,1,1-Trichloroethane | 30.0 | 0.50 | ug/l | 25.0 | ND | 120 | 64-138 | 2 | 35 | |
| 1,1,2-Trichloroethane | 23.2 | 0.50 | ug/l | 25.0 | ND | 93 | 63-132 | 1 | 35 | |
| Trichloroethene | 48.7 | 0.50 | ug/l | 25.0 | 25.5 | 93 | 66-132 | 2 | 29 | |
| Trichlorofluoromethane | 35.0 | 0.50 | ug/l | 25.0 | ND | 140 | 62-150 | 2 | 35 | |
| 1,2,3-Trichloropropane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 68-130 | 0.8 | 32 | |
| 1,2,4-Trimethylbenzene | 24.6 | 0.50 | ug/l | 25.0 | ND | 98 | 63-135 | 1 | 31 | |
| 1,3,5-Trimethylbenzene | 24.8 | 0.50 | ug/l | 25.0 | ND | 99 | 66-137 | 1 | 30 | |
| Vinyl Acetate | 38.4 | 2.0 | ug/l | 25.0 | ND | 153 | 47-150 | 4 | 35 | *N1* |
| Vinyl chloride | 26.6 | 0.50 | ug/l | 25.0 | ND | 107 | 55-146 | 0.2 | 35 | |
| Xylenes, Total | 47.1 | 1.0 | ug/l | 50.0 | ND | 94 | 68-131 | 0.7 | 31 | |
| Freon 113 | 28.1 | 2.0 | ug/l | 25.0 | ND | 113 | 52-149 | 0.7 | 35 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *70-130* | | | |

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0690 Extracted: 03/18/13** | | | | | | | | | | |
| **Blank Analyzed: 03/23/2013 (13C0690-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.18* | | *ug/l* | *20.0* | | *31* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *17.9* | | *ug/l* | *20.0* | | *90* | *27-143* | | | |
| **LCS Analyzed: 03/23/2013 (13C0690-BS1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 112 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.23* | | *ug/l* | *20.0* | | *26* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.8* | | *ug/l* | *20.0* | | *84* | *28-150* | | | |
| **LCS Dup Analyzed: 03/23/2013 (13C0690-BSD1)** | | | | | | | | | | |
| 1,4-Dioxane | 22.5 | 1.0 | ug/l | 20.0 | | 113 | 85-116 | 0.1 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.64* | | *ug/l* | *20.0* | | *28* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.6* | | *ug/l* | *20.0* | | *78* | *28-150* | | | |
| **Matrix Spike Analyzed: 03/23/2013 (13C0690-MS1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,4-Dioxane | 24.2 | 1.0 | ug/l | 21.2 | ND | 114 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *6.26* | | *ug/l* | *21.2* | | *30* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *18.4* | | *ug/l* | *21.2* | | *87* | *27-143* | | | |
| **Matrix Spike Analyzed: 03/23/2013 (13C0690-MS2)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,4-Dioxane | 26.2 | 1.0 | ug/l | 22.0 | 2.09 | 110 | 65-138 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *5.53* | | *ug/l* | *22.0* | | *25* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.0* | | *ug/l* | *22.0* | | *73* | *27-143* | | | |
| **Matrix Spike Dup Analyzed: 03/23/2013 (13C0690-MSD1)** | | | | | **Source: PWC1003-01** | | | | | |
| 1,4-Dioxane | 23.4 | 1.0 | ug/l | 20.9 | ND | 112 | 65-138 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *5.33* | | *ug/l* | *20.9* | | *25* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *16.6* | | *ug/l* | *20.9* | | *79* | *27-143* | | | |

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## METHOD BLANK/QC DATA

## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 13C0690 Extracted: 03/18/13** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/23/2013 (13C0690-MSD2)** | | | | | **Source: PWC1068-04** | | | | | |
| 1,4-Dioxane | 25.4 | 1.0 | ug/l | 21.3 | 2.09 | 110 | 65-138 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *6.78* | | *ug/l* | *21.3* | | *32* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *20.7* | | *ug/l* | *21.3* | | *97* | *27-143* | | | |
| **Batch: 13C1112 Extracted: 03/27/13** | | | | | | | | | | |
| **Blank Analyzed: 03/29/2013 (13C1112-BLK1)** | | | | | | | | | | |
| 1,4-Dioxane | ND | 1.0 | ug/l | | | | | | | |
| *Surrogate: 1,4-Dioxane-d8* | *13.5* | | *ug/l* | *20.0* | | *68* | *14-125* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.8* | | *ug/l* | *20.0* | | *79* | *27-143* | | | |
| **LCS Analyzed: 03/29/2013 (13C1112-BS1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 20.2 | 1.0 | ug/l | 20.0 | | 101 | 85-116 | | | |
| *Surrogate: 1,4-Dioxane-d8* | *14.3* | | *ug/l* | *20.0* | | *72* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *15.8* | | *ug/l* | *20.0* | | *79* | *28-150* | | | |
| **LCS Dup Analyzed: 03/29/2013 (13C1112-BSD1)** | | | | | | | | | | **Q8** |
| 1,4-Dioxane | 19.6 | 1.0 | ug/l | 20.0 | | 98 | 85-116 | 3 | 20 | |
| *Surrogate: 1,4-Dioxane-d8* | *11.4* | | *ug/l* | *20.0* | | *57* | *23-132* | | | |
| *Surrogate: Nitrobenzene-d5* | *13.1* | | *ug/l* | *20.0* | | *66* | *28-150* | | | |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

| | | |
|---|---|---|
| Environmental Resources Management Inc.-West | Project ID: 0096498 | |
| 7272 E. Indian School Rd., Ste. 100 | | Sampled: 03/15/13 |
| Scottsdale, AZ 85251 | Report Number: PWC1068 | Received: 03/15/13 |
| Attention: Jason Hilker | | |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **H4** | Sample was extracted past required extraction holding time, but analyzed within analysis holding time. |
| **L3** | The associated blank spike recovery was above method acceptance limits. |
| **L4** | The associated blank spike recovery was below method acceptance limits. |
| **N1** | See case narrative. |
| **Q8** | Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000. |
| **S7** | Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498
Report Number: PWC1068

Sampled: 03/15/13
Received: 03/15/13

## Certification Summary

### TestAmerica Phoenix

| Method | Matrix | Nelac | Arizona |
|---|---|---|---|
| EPA 8260B | Water | X | X |
| EPA 8270C | Water | | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Phoenix**

Tina Paulauskas For Vic Nielsen
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

# CHAIN OF CUSTODY FORM

PWC1068

[✓] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: [illegible]
7272 E Indian School Rd #103
Scottsdale AZ 85251

Project/PO Number: 013
0090499

Project Manager: [illegible]

Phone Number: 480-998-2420

Sampler: [illegible]

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | VOC 8260C | 1,4-Dioxane 8270 | CN/TCN | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EW-190-D-031513 | W | 3x40ml 2x1L | 5 | 3/15/13 | 0818 | HCl | X | X | | | -01 | | | | | | |
| EW-19S-S-031513 | | | 1 | 3/15/13 | 0902 | | X | X | | | -02 | | | | | | |
| EW-19S-S-031513-QC | | | | 3/15/13 | 0902 | | X | X | | | -03 | | | | | | |
| 013-2M-M-031513-MS/MSD | | 6x40ml 2x1L | 10 | 3/15/13 | 1097 | | X | X | X | | -04 | | | | | | |
| GW-EB11-031513 | | 3x40ml 3x1L | 5 | 3/15/13 | [illegible] | HCl | X | X | | | -05 | | | | | | |
| GW-LT-9-031513 | | 1x40ml | 1 | 3/15/13 | — | HCl | X | | | | -06 | | | | | | Trip Blank |

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Turnaround Time: (Check) |
|---|---|---|---|---|
| [illegible] | 03/15/13 1214 | | | same day ____ 72 hours ____ |
| Relinquished By: | Date/Time: | Received By: | Date/Time: | 24 hours ____ 5 days ____ |
| | | | | 48 hours ____ normal X |
| Relinquished By: | Date/Time: | Received in Lab By: [illegible] | Date/Time: 3/15/13 1214 | Sample Integrity: (Check) intact X on ice X |

**Note:** By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

2.1c, 2.5c

*Appendix C*
*City of Phoenix*
*Sanitary Sewer Discharge Permit*

DRAFT

**City of Phoenix**

February 6, 2013

Mr. Jason Hiker
Responsible Party
Environmental Resources Management
7272 East Indian School Road, Suite 100
Scottsdale, Arizona 85251

RE: Manhole Entry & Temporary Discharge Permit for Environmental Resources Management

Dear Mr. Hiker:

The Environmental Services Division (ESD) received your application on February 6, 2013, which requests permission to discharge approximately 10,000 gallons of purge water extracted during groundwater well sampling, aquifer testing and development in the OU-3 area.

Approval is hereby granted for the discharge of approximately 10,000 gallons of purge water extracted during groundwater well sampling, aquifer testing and development in the OU-3 area, into the City of Phoenix Sanitary Sewer. This discharge in quarter section: 11-29, 09-28,-11-27, 11-28, and manholes: 412, 221, 106, 434, 433 is expected to occur some time during the period of March 1, 2013 through June 1, 2013. In order to avoid hydraulic overloading of the sewer mains in the area, this discharge shall not exceed a flow rate of 55 gallons per minute.

It appears that the approximately 10,000 gallons of purge water extracted during groundwater well sampling, and aquifer testing from the area of OU-3 meets the requirements under Chapter 28 of the Phoenix City Code. This purge water will be extracted from groundwater test wells and discharged directly to the manhole identified for discharge into the City of Phoenix Sanitary Sewer.

The purge water is also determined to not be of sufficient quantity to injure or interfere with any sewage treatment process, cause corrosive structural damage, constitute a hazard to humans, or create any hazard to the sewer system, or in the receiving waters of the sewage treatment plant.

Please submit a final status report to ESD within 10 (ten) days of discharge. This report shall include the date of discharge, time of day the discharge occurred, and the total gallons of wastewater discharged.

RECEIVED

FEB 21 2013

WATER SERVICES
ENVIRONMENTAL SERVICES
DIVISION

Should you have any questions, contact me at 602-534-3681. My office hours are 6:00 a.m. to 4:00 p.m., Monday through Thursday.

Sincerely,

Joe Maldonado
Senior Water Quality Inspector

Enclosure: Temporary Discharge & Manhole Entry Permit

c: John Cummings

Document № 12ESD-40

## TEMPORARY DISCHARGE & MANHOLE ENTRY PERMIT

The City of Phoenix, acting through the Water Services Department, hereby issues a Temporary Discharge and Manhole Entry Permit (Permit) to:

Environmental Resources Management
7272 East Indian School Road, Suit 100
Scottsdale, Arizona 85251

hereinafter called Permittee, for the purpose of entering City of Phoenix manhole: Q.S. 9-26 #211 in Phoenix, Arizona, to dispose of approximately 10,000 gallons of purge water extracted during groundwater well sampling, and aquifer testing from area OU-3

The Permit is issued in accordance with Phoenix City Code Chapter 28 Sections 28-8 and 28-27 and subject to the following conditions:

1. That the only activities authorized by the permit are for the disposal of approximately 10,000 gallons of purge water extracted during groundwater well sampling, and aquifer testing from area OU-3. The Permittee shall conduct no other activity while entering upon the public property authorized by this permit.

2. That the Permittee's activities be conducted only within the time period March 1, 2013 through June 1, 2013, unless authorized in writing by the Water Services Director for an extension of time, or unless revoked earlier, and that the Permittee notify the Water Services Department in advance of each separate entry.

3. Permittee shall measure and record the flow of the purged well water discharged to the approved manholes. All flow data recorded shall be submitted to the Environmental Services Division within ten (10) days of completion.

4. Permittee shall measure and record the pH of the purged well water discharged to the approved manholes. All pH data recorded shall be submitted to the Environmental Services Division within ten (10) days of completion.

5. That the Permittee obtain a street closure permit for restrictions of all streets, sidewalks, and alleys. Manholes located in major streets require street closure. Please contact the City of Phoenix Street Transportation Department Right-of-Way Management at (602) 262-6235 for street closure procedures and a permit.

6. That the Permittee, when finished with the removal and discharge activities, replace to the satisfaction of the Water Services Director, any manhole covers or other disturbances to the City of Phoenix sewer lines that Permittee caused during the course of Permittee activities. That the Permittee agrees to save and hold harmless, the City, any of its departments, agencies, officers or employees from all costs and

damages occurred by any of the above from any damage to any person or property whatsoever which is caused by the activity, condition or event arising out of the negligent performance or nonperformance of any of the provisions of this permit by the Permittee, any of the Permittee's agents, or any of the Permittee's independent contractors. The above costs incurred by the City, any of its departments, agencies, officers or employees shall include in the event of any action, court cost, expensive litigation and reasonable attorney fees. When any of the above costs and/or damages occurs as aforesaid, the Permittee assumes the burden of proof that the negligent activity, condition or event did not cause such cost damage or other expense the City may incur.

The Permittee agrees to the conditions set forth in this permit, and understands that all activities conducted under the conditions of this permit should conform to the laws of the City of Phoenix and the State of Arizona.

Dated this 21 day of February 7, 2013.

_____, Environmental Resources Management

Permittee

Dated this 7 day of February, 2013.

CITY OF PHOENIX,
a municipal corporation

By: _____
John Cummings
Chief Water Quality Inspector
Water Services Department

*Appendix D*
*OU3 Historical Groundwater Elevations and Water Quality Data*

DRAFT

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| BE-MW-8 | 3/6/2008 | 991.16 | 85.19 | -- |
| BE-MW-8 | 9/2/2008 | 988.17 | 88.18 | -2.99 |
| BE-MW-8 | 3/2/2009 | 993.99 | 82.36 | 5.82 |
| BE-MW-8 | 9/8/2009 | 989.65 | 86.7 | -4.34 |
| BE-MW-8 | 3/15/2010 | 995.97 | 80.38 | 6.32 |
| BE-MW-8 | 9/13/2010 | 988.75 | 87.6 | -7.22 |
| BE-MW-8 | 3/7/2011 | 997.69 | 78.66 | 8.94 |
| BE-MW-8 | 9/6/2011 | 990.87 | 85.48 | -6.82 |
| BE-MW-8 | 3/12/2012 | 993.38 | 82.97 | 2.51 |
| DT-DW-5 | 12/14/1992 | 1019.6 | 58.3 | -- |
| DT-DW-5 | 2/7/1994 | 1023.44 | 54.46 | 3.84 |
| DT-DW-5 | 11/1/1994 | 1013.22 | 64.68 | -10.22 |
| DT-DW-5 | 6/18/2002 | 990.31 | 87.59 | -22.91 |
| DT-DW-5 | 9/3/2002 | 987.38 | 90.52 | -2.93 |
| DT-DW-5 | 12/16/2002 | 988.72 | 89.18 | 1.34 |
| DT-DW-5 | 2/27/2003 | 991.08 | 86.82 | 2.36 |
| DT-DW-5 | 3/5/2004 | 988.98 | 88.92 | -2.1 |
| DT-DW-5 | 9/9/2004 | DRY | | -- |
| DT-DW-5 | 3/1/2005 | 988.81 | 89.09 | -- |
| DT-DW-5 | 9/1/2005 | 986.78 | 91.12 | -2.03 |
| DT-DW-5 | 3/13/2006 | 991.68 | 86.22 | 4.9 |
| DT-DW-5 | 9/5/2006 | 983.49 | 94.41 | -8.19 |
| DT-DW-5 | 3/15/2007 | 989.48 | 88.42 | 5.99 |
| DT-DW-5 | 9/4/2007 | 982.17 | 95.73 | -7.31 |
| DT-DW-5 | 3/6/2008 | 988.46 | 89.44 | 6.29 |
| DT-DW-5 | 9/2/2008 | 985.14 | 92.76 | -3.32 |
| DT-DW-5 | 3/2/2009 | 991.58 | 86.32 | 6.44 |
| DT-DW-5 | 9/8/2009 | 987.12 | 90.78 | -4.46 |
| DT-DW-5 | 3/15/2010 | 987.12 | 90.78 | 0 |
| DT-DW-5 | 9/13/2010 | 991.78 | 86.12 | 4.66 |
| DT-DW-5 | 3/7/2011 | 996.93 | 80.97 | 5.15 |
| DT-DW-5 | 9/7/2011 | 988.62 | 89.28 | -8.31 |
| DT-DW-5 | 3/12/2012 | 992.04 | 85.86 | 3.42 |
| DT-DW-5 | 9/10/2012 | 983.98 | 93.92 | -8.06 |
| DT-DW-5 | 3/4/2013 | 986.87 | 91.03 | 2.89 |
| EW-13-118 | 9/21/2004 | 998.65 | 94.06 | -- |
| EW-13-118 | 3/3/2005 | 1001.22 | 91.49 | 2.57 |
| EW-13-118 | 9/2/2005 | 1004.61 | 88.1 | 3.39 |
| EW-13-118 | 3/16/2006 | 1005.28 | 87.43 | 0.67 |
| EW-13-118 | 9/25/2006 | 1002.81 | 89.9 | -2.47 |
| EW-13-118 | 3/2/2007 | 1004.88 | 87.83 | 2.07 |
| EW-13-118 | 9/5/2007 | 1002.67 | 90.04 | -2.21 |
| EW-13-118 | 3/24/2008 | 1003.96 | 88.75 | 1.29 |
| EW-13-118 | 9/4/2008 | 1004.86 | 87.85 | 0.9 |
| EW-13-118 | 3/16/2009 | 1007.47 | 85.24 | 2.61 |
| EW-13-118 | 10/1/2009 | 1005.92 | 86.79 | -1.55 |
| EW-13-118 | 3/26/2010 | 1008.07 | 84.64 | 2.15 |
| EW-13-118 | 9/24/2010 | 1011.57 | 81.14 | 3.5 |
| EW-13-118 | 3/18/2011 | 1009.36 | 83.35 | -2.21 |
| EW-13-118 | 9/16/2011 | 1007.19 | 85.52 | -2.17 |
| EW-13-118 | 3/12/2012 | 1007.21 | 85.5 | 0.02 |
| EW-13-118 | 9/10/2012 | 1003.38 | 89.33 | -3.83 |
| EW-13-118 | 3/4/2013 | 1001.47 | 91.24 | -1.91 |
| EW-13-168 | 9/21/2004 | 998.64 | 94.07 | -- |
| EW-13-168 | 3/3/2005 | 1001.27 | 91.44 | 2.63 |
| EW-13-168 | 9/2/2005 | 1004.62 | 88.09 | 3.35 |
| EW-13-168 | 3/16/2006 | 1005.24 | 87.47 | 0.62 |
| EW-13-168 | 9/25/2006 | 1002.82 | 89.89 | -2.42 |
| EW-13-168 | 3/2/2007 | 1004.76 | 87.95 | 1.94 |
| EW-13-168 | 9/5/2007 | 1002.68 | 90.03 | -2.08 |
| EW-13-168 | 3/24/2008 | 1003.95 | 88.76 | 1.27 |
| EW-13-168 | 9/4/2008 | 1004.92 | 87.79 | 0.97 |
| EW-13-168 | 3/16/2009 | 1007.48 | 85.23 | 2.56 |
| EW-13-168 | 10/1/2009 | 1005.72 | 86.99 | -1.76 |
| EW-13-168 | 3/26/2010 | 1007.73 | 84.98 | 2.01 |
| EW-13-168 | 9/24/2010 | 1011.72 | 80.99 | 3.99 |
| EW-13-168 | 3/18/2011 | 1009.28 | 83.43 | -2.44 |
| EW-13-168 | 9/16/2011 | 1007.2 | 85.51 | -2.08 |
| EW-13-168 | 3/12/2012 | 1007.2 | 85.51 | 0 |
| EW-13-168 | 9/10/2012 | 1003.86 | 88.85 | -3.34 |
| EW-13-168 | 3/4/2013 | 1001.41 | 91.3 | -2.45 |
| EW-13-228 | 9/21/2004 | 999.84 | 92.87 | -- |
| EW-13-228 | 3/4/2005 | 1003.79 | 88.92 | 3.95 |
| EW-13-228 | 9/2/2005 | 1006.56 | 86.15 | 2.77 |
| EW-13-228 | 3/16/2006 | 1007.73 | 84.98 | 1.17 |
| EW-13-228 | 9/25/2006 | 1005.15 | 87.56 | -2.58 |
| EW-13-228 | 3/2/2007 | 1007.04 | 85.67 | 1.89 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| EW-13-228 | 9/5/2007 | 1004.36 | 88.35 | -2.68 |
| EW-13-228 | 3/24/2008 | 1006.58 | 86.13 | 2.22 |
| EW-13-228 | 9/4/2008 | 1007.13 | 85.58 | 0.55 |
| EW-13-228 | 3/16/2009 | 1009.92 | 82.79 | 2.79 |
| EW-13-228 | 10/1/2009 | 1007.82 | 84.89 | -2.1 |
| EW-13-228 | 3/26/2010 | 1010.71 | 82 | 2.89 |
| EW-13-228 | 9/24/2010 | 1013.57 | 79.14 | 2.86 |
| EW-13-228 | 3/18/2011 | 1011.26 | 81.45 | -2.31 |
| EW-13-228 | 9/16/2011 | 1009.07 | 83.64 | -2.19 |
| EW-13-228 | 3/12/2012 | 1009.42 | 83.29 | 0.35 |
| EW-13-228 | 9/10/2012 | 1005.01 | 87.7 | -4.41 |
| EW-13-228 | 3/4/2013 | 1003.86 | 88.85 | -1.15 |
| EW-13-268 | 9/21/2004 | 1000.14 | 92.57 | -- |
| EW-13-268 | 3/3/2005 | 1005.36 | 87.35 | 5.22 |
| EW-13-268 | 9/2/2005 | 1007.04 | 85.67 | 1.68 |
| EW-13-268 | 3/16/2006 | 1008.49 | 84.22 | 1.45 |
| EW-13-268 | 9/25/2006 | 1005.79 | 86.92 | -2.7 |
| EW-13-268 | 3/2/2007 | 1007.46 | 85.25 | 1.67 |
| EW-13-268 | 9/5/2007 | 1004.69 | 88.02 | -2.77 |
| EW-13-268 | 3/24/2008 | 1007.41 | 85.3 | 2.72 |
| EW-13-268 | 9/4/2008 | 1007.73 | 84.98 | 0.32 |
| EW-13-268 | 3/16/2009 | 1010.52 | 82.19 | 2.79 |
| EW-13-268 | 10/1/2009 | 1008.38 | 84.33 | -2.14 |
| EW-13-268 | 3/26/2010 | 1011.61 | 81.1 | 3.23 |
| EW-13-268 | 9/24/2010 | 1014.14 | 78.57 | 2.53 |
| EW-13-268 | 3/18/2011 | 1012.02 | 80.69 | -2.12 |
| EW-13-268 | 9/16/2011 | 1009.62 | 83.09 | -2.4 |
| EW-13-268 | 3/12/2012 | 1010.08 | 82.63 | 0.46 |
| EW-13-268 | 9/10/2012 | 1005.4 | 87.31 | -4.68 |
| EW-13-268 | 3/4/2013 | 1004.64 | 88.07 | -0.76 |
| EW-19D | 12/15/1992 | 1031.44 | 55.9 | -- |
| EW-19D | 2/2/1994 | 1036.22 | 51.12 | 4.78 |
| EW-19D | 11/2/1994 | 1029.52 | 57.82 | -6.7 |
| EW-19D | 4/28/1995 | 1034.34 | 53 | 4.82 |
| EW-19D | 12/4/1995 | 1032.76 | 54.58 | -1.58 |
| EW-19D | 4/12/1996 | 1031.85 | 55.49 | -0.91 |
| EW-19D | 10/14/1996 | 1028.18 | 59.16 | -3.67 |
| EW-19D | 4/8/1997 | 1027.23 | 60.11 | -0.95 |
| EW-19D | 8/16/1997 | 1016.63 | 70.71 | -10.6 |
| EW-19D | 9/18/1997 | 1023.05 | 64.29 | 6.42 |
| EW-19D | 10/16/1997 | 1023.47 | 63.87 | 0.42 |
| EW-19D | 11/19/1997 | 1023.99 | 63.35 | 0.52 |
| EW-19D | 12/31/1997 | 1024.75 | 62.59 | 0.76 |
| EW-19D | 5/13/1998 | 1024.87 | 62.47 | 0.12 |
| EW-19D | 12/8/1998 | 1024.21 | 63.13 | -0.66 |
| EW-19D | 6/30/1999 | 1019.2 | 68.14 | -5.01 |
| EW-19D | 12/15/1999 | 1020.14 | 67.2 | 0.94 |
| EW-19D | 9/3/2002 | 1005.76 | 81.58 | -14.38 |
| EW-19D | 12/16/2002 | 1007.24 | 80.1 | 1.48 |
| EW-19D | 2/27/2003 | 1008.45 | 78.89 | 1.21 |
| EW-19D | 9/2/2003 | 1002.19 | 85.15 | -6.26 |
| EW-19D | 3/1/2004 | 1004.86 | 82.48 | 2.67 |
| EW-19D | 9/1/2004 | 998.61 | 88.73 | -6.25 |
| EW-19D | 3/1/2005 | 1004.96 | 82.38 | 6.35 |
| EW-19D | 9/1/2005 | 1004.7 | 82.64 | -0.26 |
| EW-19D | 3/1/2006 | 1008.24 | 79.1 | 3.54 |
| EW-19D | 9/5/2006 | 1003.43 | 83.91 | -4.81 |
| EW-19D | 3/1/2007 | 1006.87 | 80.47 | 3.44 |
| EW-19D | 9/4/2007 | 1002.11 | 85.23 | -4.76 |
| EW-19D | 3/6/2008 | 1006.12 | 81.22 | 4.01 |
| EW-19D | 9/2/2008 | 1004.93 | 82.41 | -1.19 |
| EW-19D | 3/2/2009 | 1009.35 | 77.99 | 4.42 |
| EW-19D | 9/8/2009 | 1006.57 | 80.77 | -2.78 |
| EW-19D | 3/15/2010 | 1010.59 | 76.75 | 4.02 |
| EW-19D | 9/13/2010 | 1010.67 | 76.67 | 0.08 |
| EW-19D | 3/7/2011 | 1013.78 | 73.56 | 3.11 |
| EW-19D | 9/6/2011 | 1007.71 | 79.63 | -6.07 |
| EW-19D | 2/27/2012 | 1009.68 | 77.8 | 1.83 |
| EW-19D | 3/13/2012 | 1009.44 | 77.9 | -0.1 |
| EW-19D | 9/5/2012 | 1003.66 | 83.82 | -5.92 |
| EW-19D | 9/11/2012 | 1003.49 | 83.85 | -0.03 |
| EW-19D | 3/5/2013 | 1004.93 | 82.41 | 1.44 |
| EW-19S | 2/1/1994 | 1032.16 | 55.16 | -- |
| EW-19S | 10/31/1994 | 1027.46 | 59.86 | -4.7 |
| EW-19S | 4/26/1995 | 1030.32 | 57 | 2.86 |
| EW-19S | 12/5/1995 | 1028.77 | 58.55 | -1.55 |
| EW-19S | 4/2/1996 | 1030.33 | 56.99 | 1.56 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| EW-19S | 10/10/1996 | 1022.88 | 64.44 | -7.45 |
| EW-19S | 4/10/1997 | 1024.79 | 62.53 | 1.91 |
| EW-19S | 8/16/1997 | 1017.92 | 69.4 | -6.87 |
| EW-19S | 9/18/1997 | 1017.11 | 70.21 | -0.81 |
| EW-19S | 10/16/1997 | 1016.78 | 70.54 | -0.33 |
| EW-19S | 11/19/1997 | 1016.81 | 70.51 | 0.03 |
| EW-19S | 12/15/1997 | 1017.22 | 70.1 | 0.41 |
| EW-19S | 4/27/1998 | 1019.08 | 68.24 | 1.86 |
| EW-19S | 11/19/1998 | 1016.65 | 70.67 | -2.43 |
| EW-19S | 6/15/1999 | 1016.32 | 71 | -0.33 |
| EW-19S | 12/8/1999 | 1013.29 | 74.03 | -3.03 |
| EW-19S | 9/3/2002 | 1000.64 | 86.68 | -12.65 |
| EW-19S | 12/16/2002 | 998.87 | 88.45 | -1.77 |
| EW-19S | 2/27/2003 | 1000.05 | 87.27 | 1.18 |
| EW-19S | 9/2/2003 | 997.12 | 90.2 | -2.93 |
| EW-19S | 3/1/2004 | 996.82 | 90.5 | -0.3 |
| EW-19S | 9/1/2004 | 993.65 | 93.67 | -3.17 |
| EW-19S | 3/1/2005 | 995.06 | 92.26 | 1.41 |
| EW-19S | 9/1/2005 | 998.16 | 89.16 | 3.1 |
| EW-19S | 3/1/2006 | 999.82 | 87.5 | 1.66 |
| EW-19S | 9/5/2006 | 996.68 | 90.64 | -3.14 |
| EW-19S | 3/1/2007 | 998.71 | 88.61 | 2.03 |
| EW-19S | 9/4/2007 | 996.19 | 91.13 | -2.52 |
| EW-19S | 3/6/2008 | 996.98 | 90.34 | 0.79 |
| EW-19S | 9/2/2008 | 998.84 | 89.48 | 0.86 |
| EW-19S | 3/2/2009 | 1000.82 | 86.5 | 2.98 |
| EW-19S | 9/8/2009 | 999.95 | 87.37 | -0.87 |
| EW-19S | 3/15/2010 | 1001 | 86.32 | 1.05 |
| EW-19S | 9/13/2010 | 1004.15 | 83.17 | 3.15 |
| EW-19S | 3/7/2011 | 1005.23 | 82.09 | 1.08 |
| EW-19S | 9/6/2011 | 1001.45 | 85.87 | -3.78 |
| EW-19S | 2/27/2012 | 1001.64 | 85.78 | 0.09 |
| EW-19S | 3/13/2012 | 1001.59 | 85.73 | 0.05 |
| EW-19S | 9/5/2012 | 997.68 | 89.74 | -4.01 |
| EW-19S | 9/11/2012 | 997.46 | 89.86 | -0.12 |
| EW-19S | 3/5/2013 | 996.04 | 91.28 | -1.42 |
| EW-20 | 1/31/1994 | 1029.94 | 61.44 | -- |
| EW-20 | 10/31/1994 | 1022.36 | 69.02 | -7.58 |
| EW-20 | 4/26/1995 | 1028.41 | 62.97 | 6.05 |
| EW-20 | 12/5/1995 | 1024.43 | 66.95 | -3.98 |
| EW-20 | 4/2/1996 | 1026.65 | 64.73 | 2.22 |
| EW-20 | 10/9/1996 | 1020.63 | 70.75 | -6.02 |
| EW-20 | 4/8/1997 | 1020.48 | 70.9 | -0.15 |
| EW-20 | 10/16/1997 | 1014.26 | 77.12 | -6.22 |
| EW-20 | 11/19/1997 | 1014.38 | 77 | 0.12 |
| EW-20 | 12/15/1997 | 1020.6 | 70.78 | 6.22 |
| EW-20 | 4/29/1998 | 1016.78 | 74.6 | -3.82 |
| EW-20 | 11/19/1998 | 1014.01 | 77.37 | -2.77 |
| EW-20 | 6/16/1999 | 1013.86 | 77.52 | -0.15 |
| EW-20 | 12/8/1999 | 1010.71 | 80.67 | -3.15 |
| EW-20 | 6/18/2002 | 1001.22 | 90.16 | -9.49 |
| EW-20 | 9/3/2002 | 998.49 | 92.89 | -2.73 |
| EW-20 | 12/16/2002 | 996.82 | 94.56 | -1.67 |
| EW-20 | 2/27/2003 | 998.05 | 93.33 | 1.23 |
| EW-20 | 9/2/2003 | 994.98 | 96.4 | -3.07 |
| EW-20 | 3/1/2004 | 994.85 | 96.53 | -0.13 |
| EW-20 | 9/1/2004 | 991.39 | 99.99 | -3.46 |
| EW-20 | 3/1/2005 | 992.74 | 98.64 | 1.35 |
| EW-20 | 9/1/2005 | 995.54 | 95.84 | 2.8 |
| EW-20 | 3/1/2006 | 997.55 | 93.83 | 2.01 |
| EW-20 | 9/5/2006 | 994.1 | 97.28 | -3.45 |
| EW-20 | 3/1/2007 | 996.24 | 95.14 | 2.14 |
| EW-20 | 9/4/2007 | 993.47 | 97.91 | -2.77 |
| EW-20 | 3/6/2008 | 994.5 | 96.88 | 1.03 |
| EW-20 | 9/2/2008 | 994.95 | 96.43 | 0.45 |
| EW-20 | 3/2/2009 | 998.25 | 93.13 | 3.3 |
| EW-20 | 9/8/2009 | 997.14 | 94.24 | -1.11 |
| EW-20 | 3/15/2010 | 998.55 | 92.83 | 1.41 |
| EW-20 | 9/13/2010 | 1001.01 | 90.37 | 2.46 |
| EW-20 | 3/7/2011 | 1002.85 | 88.53 | 1.84 |
| EW-20 | 9/6/2011 | 998.91 | 92.47 | -3.94 |
| EW-20 | 3/13/2012 | 999.23 | 92.15 | 0.32 |
| EW-20 | 9/11/2012 | 994.99 | 96.39 | -4.24 |
| EW-20 | 3/5/2013 | 993.88 | 97.5 | -1.11 |
| EW-21 | 1/31/1994 | 1033.22 | 61.02 | -- |
| EW-21 | 10/31/1994 | 1026.06 | 68.18 | -7.16 |
| EW-21 | 4/26/1995 | 1031.05 | 63.19 | 4.99 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| EW-21 | 12/5/1995 | 1028.14 | 66.1 | -2.91 |
| EW-21 | 4/2/1996 | 1030.02 | 64.22 | 1.88 |
| EW-21 | 10/9/1996 | 1024.66 | 69.58 | -5.36 |
| EW-21 | 4/8/1997 | 1024.37 | 69.87 | -0.29 |
| EW-21 | 9/18/1997 | 1019.25 | 74.99 | -5.12 |
| EW-21 | 10/16/1997 | 1018.81 | 75.43 | -0.44 |
| EW-21 | 11/19/1997 | 1018.68 | 75.56 | -0.13 |
| EW-21 | 12/14/1997 | 1018.85 | 75.39 | 0.17 |
| EW-21 | 4/28/1998 | 1020.41 | 73.83 | 1.56 |
| EW-21 | 11/19/1998 | 1018.42 | 75.82 | -1.99 |
| EW-21 | 6/16/1999 | 1018.11 | 76.13 | -0.31 |
| EW-21 | 12/8/1999 | 1015.09 | 79.15 | -3.02 |
| EW-21 | 9/3/2002 | 1002.84 | 91.4 | -12.25 |
| EW-21 | 12/16/2002 | 1000.85 | 93.39 | -1.99 |
| EW-21 | 2/27/2003 | 1001.89 | 92.35 | 1.04 |
| EW-21 | 9/2/2003 | 999.23 | 95.01 | -2.66 |
| EW-21 | 3/1/2004 | 998.55 | 95.69 | -0.68 |
| EW-21 | 9/1/2004 | 995.97 | 98.27 | -2.58 |
| EW-21 | 3/1/2005 | 996.49 | 97.75 | 0.52 |
| EW-21 | 9/1/2005 | 999.64 | 94.6 | 3.15 |
| EW-21 | 3/1/2006 | 1001.23 | 93.01 | 1.59 |
| EW-21 | 9/5/2006 | 998.63 | 95.61 | -2.6 |
| EW-21 | 3/1/2007 | 1000.15 | 94.09 | 1.52 |
| EW-21 | 9/4/2007 | 998.07 | 96.17 | -2.08 |
| EW-21 | 3/6/2008 | 998.36 | 95.88 | 0.29 |
| EW-21 | 9/2/2008 | 999.3 | 94.94 | 0.94 |
| EW-21 | 3/2/2009 | 1002.02 | 92.22 | 2.72 |
| EW-21 | 9/8/2009 | 1001.51 | 92.73 | -0.51 |
| EW-21 | 3/15/2010 | 1002.19 | 92.05 | 0.68 |
| EW-21 | 9/13/2010 | 1005.19 | 89.05 | 3 |
| EW-21 | 3/7/2011 | 1006.19 | 88.05 | 1 |
| EW-21 | 9/6/2011 | 1002.84 | 91.4 | -3.35 |
| EW-21 | 2/27/2012 | 1002.79 | 91.32 | 0.08 |
| EW-21 | 3/13/2012 | 1002.99 | 91.25 | 0.07 |
| EW-21 | 9/4/2012 | 999.32 | 94.79 | -3.54 |
| EW-21 | 9/11/2012 | 999.3 | 94.94 | -0.15 |
| EW-21 | 3/5/2013 | 997.65 | 96.59 | -1.65 |
| EW-22S | 1/31/1994 | 1035.87 | 59.94 | -- |
| EW-22S | 10/31/1994 | 1028.98 | 66.83 | -6.89 |
| EW-22S | 4/26/1995 | 1034.03 | 61.78 | 5.05 |
| EW-22S | 12/5/1995 | 1031.1 | 64.71 | -2.93 |
| EW-22S | 4/2/1996 | 1032.52 | 63.29 | 1.42 |
| EW-22S | 10/10/1996 | 1027.52 | 68.29 | -5 |
| EW-22S | 4/10/1997 | 1026.81 | 69 | -0.71 |
| EW-22S | 1/5/1998 | 1021.41 | 74.4 | -5.4 |
| EW-22S | 4/26/1998 | 1022.87 | 72.94 | 1.46 |
| EW-22S | 11/18/1998 | 1021.19 | 74.62 | -1.68 |
| EW-22S | 6/13/1999 | 1020.76 | 75.05 | -0.43 |
| EW-22S | 12/8/1999 | 1017.8 | 78.01 | -2.96 |
| EW-22S | 9/3/2002 | 1004.41 | 91.4 | -13.39 |
| EW-22S | 3/2/2006 | 1003.39 | 92.42 | -1.02 |
| EW-22S | 3/11/2010 | 1004.42 | 91.3 | 1.12 |
| EW-22S | 9/7/2010 | 1007.97 | 87.75 | 3.55 |
| EW-22S | 2/28/2011 | 1008.14 | 87.58 | 0.17 |
| EW-22S | 9/6/2011 | 1005.27 | 90.45 | -2.87 |
| EW-22S | 2/27/2012 | 1005.21 | 90.51 | -0.06 |
| EW-22S | 3/12/2012 | 1005.27 | 90.54 | -0.03 |
| EW-22S | 9/4/2012 | 1001.56 | 94.16 | -3.62 |
| EWOU3-10S-R | 6/27/2002 | 985.45 | 96.17 | -- |
| EWOU3-10S-R | 9/3/2002 | 982.32 | 99.3 | -3.13 |
| EWOU3-10S-R | 12/16/2002 | 983.9 | 97.72 | 1.58 |
| EWOU3-10S-R | 2/27/2003 | 986.84 | 94.78 | 2.94 |
| EWOU3-10S-R | 9/2/2003 DRY | | | -- |
| EWOU3-10S-R | 3/1/2004 | 984.32 | 97.3 | -- |
| EWOU3-10S-R | 9/1/2004 DRY | | | -- |
| EWOU3-10S-R | 3/1/2005 | 981.88 | 99.74 | -- |
| EWOU3-10S-R | 9/1/2005 | 980.87 | 100.75 | -1.01 |
| EWOU3-10S-R | 3/1/2006 | 986.64 | 94.98 | 5.77 |
| EWOU3-10S-R | 9/5/2006 | 980.87 | 100.75 | -5.77 |
| EWOU3-10S-R | 3/1/2007 | 984.02 | 97.6 | 3.15 |
| EWOU3-10S-R | 9/4/2007 | 980.95 | 100.67 | -3.07 |
| EWOU3-10S-R | 3/6/2008 | 982.6 | 99.02 | 1.65 |
| EWOU3-10S-R | 9/2/2008 | 980.89 | 100.73 | -1.71 |
| EWOU3-10S-R | 3/2/2009 | 985.86 | 95.76 | 4.97 |
| EWOU3-10S-R | 9/8/2009 | 980.9 | 100.72 | -4.96 |
| EWOU3-10S-R | 3/15/2010 | 986.72 | 94.9 | 5.82 |
| EWOU3-10S-R | 9/13/2010 | 984.61 | 97.01 | -2.11 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| EWOU3-10S-R | 3/7/2011 | 991.36 | 90.26 | 6.75 |
| EWOU3-10S-R | 9/8/2011 | 982.8 | 98.82 | -8.56 |
| EWOU3-10S-R | 3/13/2012 | 986.74 | 94.88 | 3.94 |
| EWOU3-10S-R | 9/10/2012 | 980.95 | 100.67 | -5.79 |
| EWOU3-10S-R | 3/4/2013 | 982.14 | 99.48 | 1.19 |
| INTER-TEL MW-1 | 4/9/1997 | 1020.9 | 67.48 | -- |
| INTER-TEL MW-1 | 8/16/1997 | 1017.09 | 71.29 | -3.81 |
| INTER-TEL MW-1 | 9/18/1997 | 1015.62 | 72.76 | -1.47 |
| INTER-TEL MW-1 | 10/16/1997 | 1015.28 | 73.1 | -0.34 |
| INTER-TEL MW-1 | 11/19/1997 | 1015.08 | 73.3 | -0.2 |
| INTER-TEL MW-1 | 12/21/1997 | 1016.43 | 71.95 | 1.35 |
| INTER-TEL MW-1 | 4/30/1998 | 1016.63 | 71.75 | 0.2 |
| INTER-TEL MW-1 | 11/23/1998 | 1014.38 | 74 | -2.25 |
| INTER-TEL MW-1 | 12/15/1999 | 1010.98 | 77.4 | -3.4 |
| INTER-TEL MW-1 | 6/18/2002 | 1003.38 | 85 | -7.6 |
| INTER-TEL MW-1 | 9/3/2002 | 1001.32 | 87.06 | -2.06 |
| INTER-TEL MW-1 | 12/16/2002 | DRY | | -- |
| INTER-TEL MW-1 | 2/27/2003 | DRY | | -- |
| INTER-TEL MW-1 | 9/9/2004 | DRY | | -- |
| INTER-TEL MW-1 | 3/1/2005 | DRY | | -- |
| INTER-TEL MW-1 | 9/1/2005 | DRY | | -- |
| INTER-TEL MW-1 | 3/1/2006 | DRY | | -- |
| INTER-TEL MW-1 | 9/5/2006 | DRY | | -- |
| INTER-TEL MW-1 | 3/1/2007 | DRY | | -- |
| INTER-TEL MW-1 | 9/4/2007 | DRY | | -- |
| INTER-TEL MW-1 | 3/6/2008 | DRY | | -- |
| INTER-TEL MW-1 | 9/2/2008 | DRY | | -- |
| INTER-TEL MW-1 | 3/2/2009 | DRY | | -- |
| INTER-TEL MW-1 | 9/8/2009 | DRY | | -- |
| INTER-TEL MW-1 | 3/15/2010 | DRY | | -- |
| INTER-TEL MW-1 | 3/7/2011 | 1000.52 | 87.86 | -- |
| INTER-TEL MW-1 | 9/6/2011 | 999.81 | 88.57 | -0.71 |
| INTER-TEL MW-1 | 3/13/2012 | 999.14 | 89.24 | -0.67 |
| OU3-10M | 5/29/2003 | 985.63 | 96.62 | -- |
| OU3-10M | 9/2/2003 | 980.45 | 101.8 | -5.18 |
| OU3-10M | 12/1/2003 | 981.38 | 100.87 | 0.93 |
| OU3-10M | 3/1/2004 | 985.18 | 97.07 | 3.8 |
| OU3-10M | 9/1/2004 | 976.14 | 106.11 | -9.04 |
| OU3-10M | 3/1/2005 | 982.7 | 99.55 | 6.56 |
| OU3-10M | 9/1/2005 | 981.16 | 101.09 | -1.54 |
| OU3-10M | 3/1/2006 | 987.5 | 94.75 | 6.34 |
| OU3-10M | 9/5/2006 | 978.53 | 103.72 | -8.97 |
| OU3-10M | 3/1/2007 | 985.03 | 97.22 | 6.5 |
| OU3-10M | 9/4/2007 | 977.28 | 104.97 | -7.75 |
| OU3-10M | 3/6/2008 | 983.38 | 98.87 | 6.1 |
| OU3-10M | 9/2/2008 | 979.12 | 103.13 | -4.26 |
| OU3-10M | 3/2/2009 | 986.6 | 95.65 | 7.48 |
| OU3-10M | 9/8/2009 | 981.25 | 101 | -5.35 |
| OU3-10M | 3/15/2010 | 987.55 | 94.7 | 6.3 |
| OU3-10M | 9/13/2010 | 985.12 | 97.13 | -2.43 |
| OU3-10M | 3/7/2011 | 992.18 | 90.07 | 7.06 |
| OU3-10M | 9/6/2011 | 983.55 | 98.7 | -8.63 |
| OU3-10M | 3/13/2012 | 987.48 | 94.77 | 3.93 |
| OU3-10M | 9/11/2012 | 979.63 | 102.62 | -7.85 |
| OU3-10M | 3/5/2013 | 982.86 | 99.39 | 3.23 |
| OU3-10M2 | 5/29/2003 | 985.86 | 96.43 | -- |
| OU3-10M2 | 9/2/2003 | 980.74 | 101.55 | -5.12 |
| OU3-10M2 | 12/1/2003 | 981.59 | 100.7 | 0.85 |
| OU3-10M2 | 3/1/2004 | 985.33 | 96.96 | 3.74 |
| OU3-10M2 | 9/1/2004 | 976.43 | 105.86 | -8.9 |
| OU3-10M2 | 3/1/2005 | 982.85 | 99.44 | 6.42 |
| OU3-10M2 | 9/1/2005 | 981.44 | 100.85 | -1.41 |
| OU3-10M2 | 3/1/2006 | 987.64 | 94.65 | 6.2 |
| OU3-10M2 | 9/5/2006 | 978.79 | 103.5 | -8.85 |
| OU3-10M2 | 3/1/2007 | 985.29 | 97 | 6.5 |
| OU3-10M2 | 9/14/2007 | 977.24 | 105.05 | -8.05 |
| OU3-10M2 | 3/6/2008 | 983.54 | 98.75 | 6.3 |
| OU3-10M2 | 9/2/2008 | 979.38 | 102.91 | -4.16 |
| OU3-10M2 | 3/2/2009 | 986.77 | 95.52 | 7.39 |
| OU3-10M2 | 9/8/2009 | 981.5 | 100.79 | -5.27 |
| OU3-10M2 | 3/15/2010 | 987.69 | 94.6 | 6.19 |
| OU3-10M2 | 9/13/2010 | 985.42 | 96.87 | -2.27 |
| OU3-10M2 | 3/7/2011 | 992.32 | 89.97 | 6.9 |
| OU3-10M2 | 9/6/2011 | 983.4 | 98.89 | -8.92 |
| OU3-10M2 | 3/13/2012 | 987.67 | 94.62 | 4.27 |
| OU3-10M2 | 9/11/2012 | 979.92 | 102.37 | -7.75 |
| OU3-10M2 | 3/5/2013 | 983.03 | 99.26 | 3.11 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-10S | 12/20/2010 | 989.23 | 92.67 | -- |
| OU3-10S | 6/20/2011 | 986.49 | 95.41 | -2.74 |
| OU3-10S | 9/7/2011 | 983.32 | 98.58 | -3.17 |
| OU3-10S | 3/13/2012 | 987.51 | 94.39 | 4.19 |
| OU3-10S | 9/11/2012 | 979.71 | 102.19 | -7.8 |
| OU3-10S | 3/4/2013 | 982.96 | 98.94 | 3.25 |
| OU3-11M | 5/29/2003 | 990.48 | 87.77 | -- |
| OU3-11M | 9/2/2003 | 986.13 | 92.12 | -4.35 |
| OU3-11M | 12/1/2003 | 986.56 | 91.69 | 0.43 |
| OU3-11M | 3/1/2004 | 989.47 | 88.78 | 2.91 |
| OU3-11M | 9/1/2004 | 981.94 | 96.31 | -7.53 |
| OU3-11M | 3/1/2005 | 987.97 | 90.28 | 6.03 |
| OU3-11M | 9/1/2005 | 987.33 | 90.92 | -0.64 |
| OU3-11M | 3/1/2006 | 992.12 | 86.13 | 4.79 |
| OU3-11M | 9/5/2006 | 984.61 | 93.64 | -7.51 |
| OU3-11M | 3/1/2007 | 989.85 | 88.4 | 5.24 |
| OU3-11M | 9/4/2007 | 983.69 | 94.56 | -6.16 |
| OU3-11M | 3/6/2008 | 988.65 | 89.6 | 4.96 |
| OU3-11M | 9/2/2008 | 985.81 | 92.44 | -2.84 |
| OU3-11M | 3/3/2009 | 992.08 | 86.17 | 6.27 |
| OU3-11M | 9/8/2009 | 987.97 | 90.28 | -4.11 |
| OU3-11M | 3/15/2010 | 992.82 | 85.43 | 4.85 |
| OU3-11M | 9/13/2010 | 992.2 | 86.05 | -0.62 |
| OU3-11M | 3/7/2011 | 997.32 | 80.93 | 5.12 |
| OU3-11M | 9/6/2011 | 989.71 | 88.54 | -7.61 |
| OU3-11M | 3/13/2012 | 992.6 | 85.65 | 2.89 |
| OU3-11M | 9/10/2012 | 985.92 | 92.33 | -6.68 |
| OU3-11M | 3/5/2013 | 987.7 | 90.55 | 1.78 |
| OU3-11M2 | 5/29/2003 | 990.46 | 87.59 | -- |
| OU3-11M2 | 9/2/2003 | 986.08 | 91.97 | -4.38 |
| OU3-11M2 | 12/1/2003 | 986.56 | 91.49 | 0.48 |
| OU3-11M2 | 3/1/2004 | 989.47 | 88.58 | 2.91 |
| OU3-11M2 | 9/9/2004 | 981.62 | 96.43 | -7.85 |
| OU3-11M2 | 3/1/2005 | 987.98 | 90.07 | 6.36 |
| OU3-11M2 | 9/1/2005 | 987.29 | 90.76 | -0.69 |
| OU3-11M2 | 3/1/2006 | 992.12 | 85.93 | 4.83 |
| OU3-11M2 | 9/5/2006 | 984.58 | 93.47 | -7.54 |
| OU3-11M2 | 3/5/2007 | 990.29 | 87.76 | 5.71 |
| OU3-11M2 | 9/4/2007 | 983.33 | 94.72 | -6.96 |
| OU3-11M2 | 3/6/2008 | 988.64 | 89.41 | 5.31 |
| OU3-11M2 | 9/2/2008 | 985.78 | 92.27 | -2.86 |
| OU3-11M2 | 3/3/2009 | 992.05 | 86 | 6.27 |
| OU3-11M2 | 9/8/2009 | 987.93 | 90.12 | -4.12 |
| OU3-11M2 | 3/15/2010 | 992.79 | 85.26 | 4.86 |
| OU3-11M2 | 9/13/2010 | 991.93 | 86.12 | -0.86 |
| OU3-11M2 | 3/7/2011 | 997.3 | 80.75 | 5.37 |
| OU3-11M2 | 9/6/2011 | 989.66 | 88.39 | -7.64 |
| OU3-11M2 | 3/13/2012 | 992.6 | 85.45 | 2.94 |
| OU3-11M2 | 9/10/2012 | 985.86 | 92.19 | -6.74 |
| OU3-11M2 | 3/5/2013 | 987.65 | 90.4 | 1.79 |
| OU3-11S | 5/29/2003 | 990.58 | 87.68 | -- |
| OU3-11S | 9/2/2003 | 986.24 | 92.02 | -4.34 |
| OU3-11S | 12/1/2003 | 986.62 | 91.64 | 0.38 |
| OU3-11S | 3/1/2004 | 989.53 | 88.73 | 2.91 |
| OU3-11S | 9/1/2004 | 982.04 | 96.22 | -7.49 |
| OU3-11S | 3/1/2005 | 988.01 | 90.25 | 5.97 |
| OU3-11S | 9/1/2005 | 987.42 | 90.84 | -0.59 |
| OU3-11S | 3/1/2006 | 992.2 | 86.06 | 4.78 |
| OU3-11S | 9/5/2006 | 984.72 | 93.54 | -7.48 |
| OU3-11S | 3/1/2007 | 990.02 | 88.24 | 5.3 |
| OU3-11S | 9/4/2007 | 983.64 | 94.62 | -6.38 |
| OU3-11S | 3/6/2008 | 988.71 | 89.55 | 5.07 |
| OU3-11S | 9/2/2008 | 985.92 | 92.34 | -2.79 |
| OU3-11S | 3/3/2009 | 992.14 | 86.12 | 6.22 |
| OU3-11S | 9/8/2009 | 988.08 | 90.18 | -4.06 |
| OU3-11S | 3/15/2010 | 992.86 | 85.4 | 4.78 |
| OU3-11S | 9/13/2010 | 992.31 | 85.95 | -0.55 |
| OU3-11S | 3/7/2011 | 997.46 | 80.8 | 5.15 |
| OU3-11S | 9/6/2011 | 989.8 | 88.46 | -7.66 |
| OU3-11S | 3/13/2012 | 992.72 | 85.54 | 2.92 |
| OU3-11S | 9/12/2012 | 985.96 | 92.3 | -6.76 |
| OU3-11S | 3/5/2013 | 987.75 | 90.51 | 1.79 |
| OU3-12D | 5/29/2003 | 1006.57 | 84.2 | -- |
| OU3-12D | 9/2/2003 | 1003.59 | 87.18 | -2.98 |
| OU3-12D | 12/1/2003 | 1003.89 | 86.88 | 0.3 |
| OU3-12D | 3/1/2004 | 1005.14 | 85.63 | 1.25 |
| OU3-12D | 9/1/2004 | 1000.24 | 90.53 | -4.9 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-12D | 3/1/2005 | 1005.27 | 85.5 | 5.03 |
| OU3-12D | 9/1/2005 | 1006.24 | 84.53 | 0.97 |
| OU3-12D | 3/1/2006 | 998.59 | 92.18 | -7.65 |
| OU3-12D | 9/5/2006 | 1004.89 | 85.88 | 6.3 |
| OU3-12D | 3/1/2007 | 1007.61 | 83.16 | 2.72 |
| OU3-12D | 9/4/2007 | 1000.91 | 86.86 | -3.7 |
| OU3-12D | 3/6/2008 | 1006.68 | 84.09 | 2.77 |
| OU3-12D | 9/2/2008 | 1006.71 | 84.06 | 0.03 |
| OU3-12D | 3/2/2009 | 1010.19 | 80.58 | 3.48 |
| OU3-12D | 9/8/2009 | 1008.28 | 82.49 | -1.91 |
| OU3-12D | 3/15/2010 | 1011.04 | 79.73 | 2.76 |
| OU3-12D | 9/13/2010 | 1012.79 | 77.98 | 1.75 |
| OU3-12D | 3/7/2011 | 1014.07 | 76.7 | 1.28 |
| OU3-12D | 9/6/2011 | 1009.23 | 81.54 | -4.84 |
| OU3-12D | 2/27/2012 | 1010.27 | 80.5 | 1.04 |
| OU3-12D | 3/13/2012 | 1010.14 | 80.63 | -0.13 |
| OU3-12D | 9/5/2012 | 1004.98 | 85.79 | -5.16 |
| OU3-12D | 9/11/2012 | 1004.87 | 85.9 | -0.11 |
| OU3-12D | 3/5/2013 | 1005.08 | 85.69 | 0.21 |
| OU3-12M | 5/29/2003 | 1002.67 | 88.12 | -- |
| OU3-12M | 9/2/2003 | 1000.5 | 90.29 | -2.17 |
| OU3-12M | 12/1/2003 | 998.95 | 91.84 | -1.55 |
| OU3-12M | 3/1/2004 | 1000.01 | 90.78 | 1.06 |
| OU3-12M | 9/1/2004 | 997.38 | 93.41 | -2.63 |
| OU3-12M | 3/1/2005 | 994.82 | 95.97 | -2.56 |
| OU3-12M | 9/1/2005 | 1002.18 | 88.61 | 7.36 |
| OU3-12M | 3/1/2006 | 1003.27 | 87.52 | 1.09 |
| OU3-12M | 9/5/2006 | 1000.67 | 90.12 | -2.6 |
| OU3-12M | 3/1/2007 | 1002.51 | 88.28 | 1.84 |
| OU3-12M | 9/5/2007 | 1000.37 | 90.42 | -2.14 |
| OU3-12M | 3/6/2008 | 1000.85 | 89.94 | 0.48 |
| OU3-12M | 9/2/2008 | 1002.3 | 88.49 | 1.45 |
| OU3-12M | 3/2/2009 | 1004.85 | 85.94 | 2.55 |
| OU3-12M | 9/8/2009 | 1004.22 | 86.57 | -0.63 |
| OU3-12M | 3/15/2010 | 1004.83 | 85.96 | 0.61 |
| OU3-12M | 9/13/2010 | 1008.78 | 82.01 | 3.95 |
| OU3-12M | 3/7/2011 | 1008.8 | 81.99 | 0.02 |
| OU3-12M | 9/6/2011 | 1005.34 | 85.45 | -3.46 |
| OU3-12M | 2/27/2012 | 1005.32 | 85.47 | -0.02 |
| OU3-12M | 3/13/2012 | 1005.27 | 85.52 | -0.05 |
| OU3-12M | 9/5/2012 | 1001.43 | 89.36 | -3.84 |
| OU3-12M | 9/11/2012 | 1001.27 | 89.52 | -0.16 |
| OU3-12M | 3/5/2013 | 999.53 | 91.26 | -1.74 |
| OU3-13D | 5/29/2003 | 1005.16 | 90.55 | -- |
| OU3-13D | 9/2/2003 | 1002.62 | 93.09 | -2.54 |
| OU3-13D | 12/1/2003 | 1001.97 | 93.74 | -0.65 |
| OU3-13D | 3/1/2004 | 1003.07 | 92.64 | 1.1 |
| OU3-13D | 9/1/2004 | 999.6 | 96.11 | -3.47 |
| OU3-13D | 3/1/2005 | 1002.2 | 93.51 | 2.6 |
| OU3-13D | 9/1/2005 | 1004.38 | 91.33 | 2.18 |
| OU3-13D | 3/1/2006 | 1010.24 | 85.47 | 5.86 |
| OU3-13D | 9/5/2006 | 1003.42 | 92.29 | -6.82 |
| OU3-13D | 3/1/2007 | 1005.39 | 90.32 | 1.97 |
| OU3-13D | 9/4/2007 | 1002.64 | 93.07 | -2.75 |
| OU3-13D | 3/6/2008 | 1003.91 | 91.8 | 1.27 |
| OU3-13D | 9/2/2008 | 1004.67 | 91.04 | 0.76 |
| OU3-13D | 3/2/2009 | 1007.62 | 88.09 | 2.95 |
| OU3-13D | 9/8/2009 | 1006.5 | 89.21 | -1.12 |
| OU3-13D | 3/15/2010 | 1007.95 | 87.76 | 1.45 |
| OU3-13D | 9/13/2010 | 1010.66 | 85.05 | 2.71 |
| OU3-13D | 3/7/2011 | 1011.4 | 84.31 | 0.74 |
| OU3-13D | 9/6/2011 | 997.61 | 98.1 | -13.79 |
| OU3-13D | 9/19/2011 | 1007.41 | 88.3 | 9.8 |
| OU3-13D | 2/27/2012 | 1008.06 | 87.65 | 0.65 |
| OU3-13D | 3/12/2012 | 1007.98 | 87.73 | -0.08 |
| OU3-13D | 9/4/2012 | 1003.66 | 92.05 | -4.32 |
| OU3-13D | 9/11/2012 | 1003.56 | 92.15 | -0.1 |
| OU3-13D | 3/5/2013 | 1002.9 | 92.81 | -0.66 |
| OU3-13M | 5/29/2003 | 1002.83 | 92.92 | -- |
| OU3-13M | 9/2/2003 | 1000.85 | 94.9 | -1.98 |
| OU3-13M | 12/1/2003 | 999.29 | 96.46 | -1.56 |
| OU3-13M | 3/1/2004 | 1000.4 | 95.35 | 1.11 |
| OU3-13M | 9/1/2004 | 998 | 97.75 | -2.4 |
| OU3-13M | 3/1/2005 | 998.89 | 96.86 | 0.89 |
| OU3-13M | 9/1/2005 | 1002.09 | 93.66 | 3.2 |
| OU3-13M | 3/1/2006 | 1003.33 | 92.42 | 1.24 |
| OU3-13M | 9/5/2006 | 1000.94 | 94.81 | -2.39 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-13M | 3/1/2007 | 1002.54 | 93.21 | 1.6 |
| OU3-13M | 9/4/2007 | 1000.55 | 95.2 | -1.99 |
| OU3-13M | 3/6/2008 | 1000.82 | 94.93 | 0.27 |
| OU3-13M | 9/2/2008 | 1002.15 | 93.6 | 1.33 |
| OU3-13M | 3/2/2009 | 1004.66 | 91.09 | 2.51 |
| OU3-13M | 9/8/2009 | 1004.14 | 91.61 | -0.52 |
| OU3-13M | 3/15/2010 | 1004.65 | 91.1 | 0.51 |
| OU3-13M | 9/13/2010 | 1008.24 | 87.51 | 3.59 |
| OU3-13M | 3/7/2011 | 1008.45 | 87.3 | 0.21 |
| OU3-13M | 9/6/2011 | 1005.41 | 90.34 | -3.04 |
| OU3-13M | 2/27/2012 | 1005.3 | 90.45 | -0.11 |
| OU3-13M | 3/12/2012 | 1005.27 | 90.48 | -0.03 |
| OU3-13M | 9/4/2012 | 1001.6 | 94.15 | -3.67 |
| OU3-13M | 9/11/2012 | 1001.44 | 94.31 | -0.16 |
| OU3-13M | 3/4/2013 | 999.65 | 96.1 | -1.79 |
| OU3-14D | 5/29/2003 | 1013.15 | 85.99 | -- |
| OU3-14D | 9/2/2003 | 1010.48 | 88.66 | -2.67 |
| OU3-14D | 12/1/2003 | 1010.61 | 88.53 | 0.13 |
| OU3-14D | 3/1/2004 | 1011.99 | 87.15 | 1.38 |
| OU3-14D | 9/1/2004 | 1007.62 | 91.52 | -4.37 |
| OU3-14D | 3/1/2005 | 1011.59 | 87.55 | 3.97 |
| OU3-14D | 9/1/2005 | 1012.74 | 86.4 | 1.15 |
| OU3-14D | 3/1/2006 | 1015.42 | 83.72 | 2.68 |
| OU3-14D | 9/5/2006 | 1012.56 | 86.58 | -2.86 |
| OU3-14D | 3/1/2007 | 1014.57 | 84.57 | 2.01 |
| OU3-14D | 9/4/2007 | 1011.04 | 88.1 | -3.53 |
| OU3-14D | 3/6/2008 | 1013.33 | 85.81 | 2.29 |
| OU3-14D | 9/2/2008 | 1013.29 | 85.85 | -0.04 |
| OU3-14D | 3/2/2009 | 1016.53 | 82.61 | 3.24 |
| OU3-14D | 9/8/2009 | 1014.93 | 84.21 | -1.6 |
| OU3-14D | 3/15/2010 | 1017.19 | 81.95 | 2.26 |
| OU3-14D | 9/13/2010 | 1011.33 | 87.81 | -5.86 |
| OU3-14D | 3/7/2011 | 1019.79 | 79.35 | 8.46 |
| OU3-14D | 9/6/2011 | 1015.96 | 83.18 | -3.83 |
| OU3-14D | 2/27/2012 | 1016.83 | 82.31 | 0.87 |
| OU3-14D | 3/13/2012 | 1016.64 | 82.5 | -0.19 |
| OU3-14D | 9/4/2012 | 1012.01 | 87.13 | -4.63 |
| OU3-14D | 9/11/2012 | 1002.08 | 97.06 | -9.93 |
| OU3-14D | 3/5/2013 | 1002.27 | 96.87 | 0.19 |
| OU3-14M | 5/29/2003 | 1004.92 | 94.13 | -- |
| OU3-14M | 9/2/2003 | 1003.36 | 95.69 | -1.56 |
| OU3-14M | 12/1/2003 | 1000.89 | 98.16 | -2.47 |
| OU3-14M | 3/1/2004 | 1002.45 | 96.6 | 1.56 |
| OU3-14M | 9/1/2004 | 1001.15 | 97.9 | -1.3 |
| OU3-14M | 3/1/2005 | 1001.3 | 97.75 | 0.15 |
| OU3-14M | 9/1/2005 | 1004.14 | 94.91 | 2.84 |
| OU3-14M | 3/1/2006 | 1005.49 | 93.56 | 1.35 |
| OU3-14M | 9/5/2006 | 1003.62 | 95.43 | -1.87 |
| OU3-14M | 3/1/2007 | 1004.86 | 94.19 | 1.24 |
| OU3-14M | 9/4/2007 | 1003.28 | 95.77 | -1.58 |
| OU3-14M | 3/6/2008 | 1003.08 | 95.97 | -0.2 |
| OU3-14M | 9/2/2008 | 1004.41 | 94.64 | 1.33 |
| OU3-14M | 3/2/2009 | 1006.68 | 92.37 | 2.27 |
| OU3-14M | 9/8/2009 | 1006.4 | 92.65 | -0.28 |
| OU3-14M | 3/15/2010 | 1006.45 | 92.6 | 0.05 |
| OU3-14M | 9/13/2010 | 1009.86 | 89.19 | 3.41 |
| OU3-14M | 3/7/2011 | 1009.94 | 89.11 | 0.08 |
| OU3-14M | 9/6/2011 | 1007.75 | 91.3 | -2.19 |
| OU3-14M | 2/27/2012 | 1007.4 | 91.65 | -0.35 |
| OU3-14M | 3/13/2012 | 1007.22 | 91.83 | -0.18 |
| OU3-14M | 9/4/2012 | 1004.07 | 94.98 | -3.15 |
| OU3-14M | 9/11/2012 | 1003.9 | 95.15 | -0.17 |
| OU3-14M | 3/5/2013 | 1002.06 | 96.99 | -1.84 |
| OU3-16M | 12/20/2010 | 989.51 | 92.68 | 4.31 |
| OU3-16M | 3/7/2011 | 992.58 | 89.67 | 3.01 |
| OU3-16M | 6/20/2011 | 987.46 | 94.79 | -5.12 |
| OU3-16M | 9/6/2011 | 984.49 | 97.76 | -2.97 |
| OU3-16M | 3/13/2012 | 987.99 | 94.26 | 3.5 |
| OU3-16M | 9/11/2012 | 980.83 | 101.42 | -7.16 |
| OU3-16M | 3/5/2013 | 983.42 | 98.83 | 2.59 |
| OU3-16S | 12/20/2010 | 989.74 | 92.51 | -- |
| OU3-16S | 3/7/2011 | 992.6 | 89.59 | 2.92 |
| OU3-16S | 6/20/2011 | 987.57 | 94.62 | -5.03 |
| OU3-16S | 9/6/2011 | 984.59 | 97.6 | -2.98 |
| OU3-16S | 3/13/2012 | 988.15 | 94.04 | 3.56 |
| OU3-16S | 9/11/2012 | 980.98 | 101.21 | -7.17 |
| OU3-16S | 3/5/2013 | 983.5 | 98.69 | 2.52 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-17S | 12/20/2010 | 1001.34 | 80.88 | -- |
| OU3-17S | 3/7/2011 | 1002.3 | 79.92 | 0.96 |
| OU3-17S | 6/20/2011 | 999.82 | 82.4 | -2.48 |
| OU3-17S | 9/6/2011 | 997.62 | 84.6 | -2.2 |
| OU3-17S | 3/13/2012 | 998.49 | 83.73 | 0.87 |
| OU3-17S | 9/11/2012 | 993.7 | 88.52 | -4.79 |
| OU3-17S | 3/5/2013 | 993.24 | 88.98 | -0.46 |
| OU3-19M | 12/20/2010 | 1008.52 | 82.69 | -- |
| OU3-19M | 3/7/2011 | 1008.75 | 82.46 | 0.23 |
| OU3-19M | 6/20/2011 | 1007.1 | 84.11 | -1.65 |
| OU3-19M | 9/6/2011 | 1005.5 | 85.71 | -1.6 |
| OU3-19M | 3/13/2012 | 1005.35 | 85.86 | -0.15 |
| OU3-19M | 9/11/2012 | 1001.43 | 89.78 | -3.92 |
| OU3-19M | 3/5/2013 | 998.69 | 92.52 | -2.74 |
| OU3-1D | 6/18/2002 | 1010.85 | 82.24 | -- |
| OU3-1D | 9/3/2002 | 1007.98 | 85.11 | -2.87 |
| OU3-1D | 12/16/2002 | 1010.39 | 82.7 | 2.41 |
| OU3-1D | 2/27/2003 | 1011.41 | 81.68 | 1.02 |
| OU3-1D | 9/2/2003 | 1004.11 | 88.98 | -7.3 |
| OU3-1D | 3/1/2004 | 1007.59 | 85.5 | 3.48 |
| OU3-1D | 9/1/2004 | 1000.58 | 92.51 | -7.01 |
| OU3-1D | 3/1/2005 | 1007.66 | 85.43 | 7.08 |
| OU3-1D | 9/1/2005 | 1006.74 | 86.35 | -0.92 |
| OU3-1D | 3/1/2006 | 1010.97 | 82.12 | 4.23 |
| OU3-1D | 9/5/2006 | 1005.8 | 87.29 | -5.17 |
| OU3-1D | 3/1/2007 | 1009.4 | 83.69 | 3.6 |
| OU3-1D | 9/4/2007 | 1004.24 | 88.85 | -5.16 |
| OU3-1D | 3/6/2008 | 1008.73 | 84.36 | 4.49 |
| OU3-1D | 9/2/2008 | 1006.97 | 86.12 | -1.76 |
| OU3-1D | 3/2/2009 | 1011.7 | 81.39 | 4.73 |
| OU3-1D | 9/8/2009 | 1008.59 | 84.5 | -3.11 |
| OU3-1D | 3/15/2010 | 1013.11 | 79.98 | 4.52 |
| OU3-1D | 9/13/2010 | 1012.25 | 80.84 | -0.86 |
| OU3-1D | 3/7/2011 | 1014.77 | 78.32 | 2.52 |
| OU3-1D | 9/6/2011 | 1009.77 | 83.32 | -5 |
| OU3-1D | 3/13/2012 | 1011.81 | 81.28 | 2.04 |
| OU3-1D | 9/11/2012 | 995.6 | 97.49 | -16.21 |
| OU3-1D | 3/5/2013 | 1007.8 | 85.29 | 12.2 |
| OU3-1M | 6/18/2002 | 1004.35 | 88.95 | -- |
| OU3-1M | 9/3/2002 | 1002.01 | 91.29 | -2.34 |
| OU3-1M | 12/16/2002 | 1000.08 | 93.22 | -1.93 |
| OU3-1M | 2/27/2003 | 1001.12 | 92.18 | 1.04 |
| OU3-1M | 9/2/2003 | 998.42 | 94.88 | -2.7 |
| OU3-1M | 3/1/2004 | 997.79 | 95.51 | -0.63 |
| OU3-1M | 9/1/2004 | 995.15 | 98.15 | -2.64 |
| OU3-1M | 3/1/2005 | 995.71 | 97.59 | 0.56 |
| OU3-1M | 9/1/2005 | 998.82 | 94.48 | 3.11 |
| OU3-1M | 3/1/2006 | 1000.39 | 92.91 | 1.57 |
| OU3-1M | 9/5/2006 | 997.77 | 95.53 | -2.62 |
| OU3-1M | 3/1/2007 | 999.35 | 93.95 | 1.58 |
| OU3-1M | 9/4/2007 | 997.2 | 96.1 | -2.15 |
| OU3-1M | 3/6/2008 | 997.55 | 95.75 | 0.35 |
| OU3-1M | 9/2/2008 | 998.42 | 94.88 | 0.87 |
| OU3-1M | 3/2/2009 | 1001.16 | 92.14 | 2.74 |
| OU3-1M | 9/8/2009 | 1000.61 | 92.69 | -0.55 |
| OU3-1M | 3/15/2010 | 1001.37 | 91.93 | 0.76 |
| OU3-1M | 9/13/2010 | 1004.27 | 89.03 | 2.9 |
| OU3-1M | 3/7/2011 | 1005.34 | 87.96 | 1.07 |
| OU3-1M | 9/6/2011 | 1002.27 | 91.03 | -3.07 |
| OU3-1M | 3/13/2012 | 1002.16 | 91.14 | -0.11 |
| OU3-1M | 9/11/2012 | 998.46 | 94.84 | -3.7 |
| OU3-1M | 3/5/2013 | 996.9 | 96.4 | -1.56 |
| OU3-20M | 12/20/2010 | 1016.06 | 84.06 | -- |
| OU3-20M | 3/7/2011 | 1015.09 | 85.03 | -0.97 |
| OU3-20M | 6/20/2011 | 1013.41 | 86.71 | -1.68 |
| OU3-20M | 9/6/2011 | 1011.77 | 88.35 | -1.64 |
| OU3-20M | 2/27/2012 | 1011.5 | 88.62 | -0.27 |
| OU3-20M | 3/13/2012 | 1011.31 | 88.81 | -0.19 |
| OU3-20M | 9/5/2012 | 1006.41 | 93.71 | -4.9 |
| OU3-20M | 9/11/2012 | 1007.35 | 92.77 | 0.94 |
| OU3-20M | 3/5/2013 | 1004.9 | 95.22 | -2.45 |
| OU3-20S | 12/20/2010 | 1016.2 | 84 | -- |
| OU3-20S | 3/7/2011 | 1015.23 | 84.97 | -0.97 |
| OU3-20S | 6/20/2011 | 1013.58 | 86.62 | -1.65 |
| OU3-20S | 9/6/2011 | 1011.96 | 88.24 | -1.62 |
| OU3-20S | 2/28/2012 | 1011.64 | 88.56 | -0.32 |
| OU3-20S | 3/13/2012 | 1011.52 | 88.68 | -0.12 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-20S | 9/5/2012 | 1007.64 | 92.56 | -3.88 |
| OU3-20S | 9/11/2012 | 1007.56 | 92.64 | -0.08 |
| OU3-20S | 3/5/2013 | 1005.07 | 95.13 | -2.49 |
| OU3-2M | 6/18/2002 | 1003.52 | 84.45 | -- |
| OU3-2M | 9/3/2002 | 1001.12 | 86.85 | -2.4 |
| OU3-2M | 12/16/2002 | 999.4 | 88.57 | -1.72 |
| OU3-2M | 2/27/2003 | 1000.53 | 87.44 | 1.13 |
| OU3-2M | 9/2/2003 | 997.66 | 90.31 | -2.87 |
| OU3-2M | 3/1/2004 | 997.24 | 90.73 | -0.42 |
| OU3-2M | 9/1/2004 | 994.28 | 93.69 | -2.96 |
| OU3-2M | 3/1/2005 | 995.63 | 92.34 | 1.35 |
| OU3-2M | 9/1/2005 | 998.63 | 89.34 | 3 |
| OU3-2M | 3/1/2006 | 1000.54 | 87.43 | 1.91 |
| OU3-2M | 9/5/2006 | 997.2 | 90.77 | -3.34 |
| OU3-2M | 3/1/2007 | 999.18 | 88.79 | 1.98 |
| OU3-2M | 9/4/2007 | 996.71 | 91.26 | -2.47 |
| OU3-2M | 3/6/2008 | 997.49 | 90.48 | 0.78 |
| OU3-2M | 9/2/2008 | 998.31 | 89.66 | 0.82 |
| OU3-2M | 3/2/2009 | 1001.27 | 86.7 | 2.96 |
| OU3-2M | 9/8/2009 | 1000.41 | 87.56 | -0.86 |
| OU3-2M | 3/15/2010 | 1001.44 | 86.56 | 1 |
| OU3-2M | 9/13/2010 | 1004.48 | 83.52 | 3.04 |
| OU3-2M | 3/7/2011 | 1005.55 | 82.45 | 1.07 |
| OU3-2M | 9/6/2011 | 1008.66 | 86.08 | -3.63 |
| OU3-2M | 3/13/2012 | 1008.79 | 85.95 | 0.13 |
| OU3-2M | 9/11/2012 | 997.98 | 90.02 | -4.07 |
| OU3-2M | 3/5/2013 | 996.6 | 91.4 | -1.38 |
| OU3-4S | 6/18/2002 | 1006.76 | 87.98 | -- |
| OU3-4S | 9/3/2002 | 1004.72 | 90.02 | -2.04 |
| OU3-4S | 12/16/2002 | 1002.62 | 92.12 | -2.1 |
| OU3-4S | 2/27/2003 | 1003.17 | 91.57 | 0.55 |
| OU3-4S | 9/2/2003 | 1001.04 | 93.7 | -2.13 |
| OU3-4S | 3/1/2004 | 999.88 | 94.86 | -1.16 |
| OU3-4S | 9/1/2004 | 997.96 | 96.78 | -1.92 |
| OU3-4S | 3/1/2005 | 997.64 | 97.1 | -0.32 |
| OU3-4S | 9/1/2005 | 1000.73 | 94.01 | 3.09 |
| OU3-4S | 3/1/2006 | 1002.04 | 92.7 | 1.31 |
| OU3-4S | 9/5/2006 | 1000.34 | 94.4 | -1.7 |
| OU3-4S | 3/1/2007 | 1001.13 | 93.61 | 0.79 |
| OU3-4S | 9/4/2007 | 999.61 | 95.13 | -1.52 |
| OU3-4S | 3/6/2008 | 999.38 | 95.36 | -0.23 |
| OU3-4S | 9/2/2008 | 1000.37 | 94.37 | 0.99 |
| OU3-4S | 3/2/2009 | 1002.54 | 92.2 | 2.17 |
| OU3-4S | 9/8/2009 | 1002.51 | 92.23 | -0.03 |
| OU3-4S | 3/15/2010 | 1002.79 | 91.95 | 0.28 |
| OU3-4S | 9/13/2010 | 1005.49 | 89.25 | 2.7 |
| OU3-4S | 3/7/2011 | 1006.41 | 88.33 | 0.92 |
| OU3-4S | 9/6/2011 | 1004.22 | 90.52 | -2.19 |
| OU3-4S | 3/13/2012 | 1003.71 | 91.03 | -0.51 |
| OU3-4S | 9/11/2012 | 1000.71 | 94.03 | -3 |
| OU3-4S | 3/5/2013 | 998.99 | 95.75 | -1.72 |
| OU3-5DR | 8/12/2003 | 995.79 | 91.56 | -- |
| OU3-5DR | 12/1/2003 | 996.01 | 91.34 | 0.22 |
| OU3-5DR | 3/1/2004 | 998.05 | 89.3 | 2.04 |
| OU3-5DR | 9/1/2004 | 991.34 | 96.01 | -6.71 |
| OU3-5DR | 3/1/2005 | 997.26 | 90.09 | 5.92 |
| OU3-5DR | 9/1/2005 | 997 | 90.35 | -0.26 |
| OU3-5DR | 3/1/2006 | 1001.02 | 86.33 | 4.02 |
| OU3-5DR | 9/5/2006 | 995.21 | 92.14 | -5.81 |
| OU3-5DR | 3/1/2007 | 999.18 | 88.17 | 3.97 |
| OU3-5DR | 9/4/2007 | 994.03 | 93.32 | -5.15 |
| OU3-5DR | 3/6/2008 | 998.26 | 89.09 | 4.23 |
| OU3-5DR | 9/2/2008 | 996.43 | 90.92 | -1.83 |
| OU3-5DR | 3/2/2009 | 1001.58 | 85.77 | 5.15 |
| OU3-5DR | 9/8/2009 | 1001.85 | 85.5 | 0.27 |
| OU3-5DR | 3/15/2010 | 1002.65 | 84.7 | 0.8 |
| OU3-5DR | 9/13/2010 | 1002.37 | 84.98 | -0.28 |
| OU3-5DR | 3/7/2011 | 1001.12 | 86.23 | -1.25 |
| OU3-5DR | 9/6/2011 | 999.86 | 87.49 | -1.26 |
| OU3-5DR | 3/12/2012 | 1001.93 | 85.42 | 2.07 |
| OU3-5DR | 9/11/2012 | 995.75 | 91.6 | -6.18 |
| OU3-5DR | 3/5/2013 | 997.37 | 89.98 | 1.62 |
| OU3-5M2 | 5/29/2003 | 995.37 | 91.87 | -- |
| OU3-5M2 | 8/12/2003 | 992.73 | 94.51 | -2.64 |
| OU3-5M2 | 12/1/2003 | 991.2 | 96.04 | -1.53 |
| OU3-5M2 | 3/1/2004 | 993 | 94.24 | 1.8 |
| OU3-5M2 | 9/1/2004 | 988.47 | 98.77 | -4.53 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-5M2 | 3/1/2005 | 990.74 | 96.5 | 2.27 |
| OU3-5M2 | 9/1/2005 | 992.62 | 94.62 | 1.88 |
| OU3-5M2 | 3/1/2006 | 995.47 | 91.77 | 2.85 |
| OU3-5M2 | 9/9/2006 | 990.85 | 96.39 | -4.62 |
| OU3-5M2 | 3/10/2007 | 994.17 | 93.07 | 3.32 |
| OU3-5M2 | 9/4/2007 | 990.15 | 97.09 | -4.02 |
| OU3-5M2 | 3/6/2008 | 992.24 | 95 | 2.09 |
| OU3-5M2 | 9/2/2008 | 991.64 | 95.6 | -0.6 |
| OU3-5M2 | 3/2/2009 | 995.69 | 91.55 | 4.05 |
| OU3-5M2 | 9/8/2009 | 993.75 | 93.49 | -1.94 |
| OU3-5M2 | 3/15/2010 | 996.14 | 91.1 | 2.39 |
| OU3-5M2 | 9/13/2010 | 997.46 | 89.78 | 1.32 |
| OU3-5M2 | 3/7/2011 | 1000.48 | 86.76 | 3.02 |
| OU3-5M2 | 9/6/2011 | 995.64 | 91.6 | -4.84 |
| OU3-5M2 | 3/12/2012 | 996.72 | 90.52 | 1.08 |
| OU3-5M2 | 9/11/2012 | 992.06 | 95.18 | -4.66 |
| OU3-5M2 | 3/5/2013 | 991.72 | 95.52 | -0.34 |
| OU3-5MR | 8/11/2003 | 992.79 | 94.58 | -- |
| OU3-5MR | 12/1/2003 | 991.24 | 96.13 | -1.55 |
| OU3-5MR | 3/1/2004 | 993.03 | 94.34 | 1.79 |
| OU3-5MR | 9/1/2004 | 988.97 | 98.4 | -4.06 |
| OU3-5MR | 3/1/2005 | 990.77 | 96.6 | 1.8 |
| OU3-5MR | 9/1/2005 | 992.66 | 94.71 | 1.89 |
| OU3-5MR | 3/1/2006 | 995.49 | 91.88 | 2.83 |
| OU3-5MR | 9/5/2006 | 990.99 | 96.38 | -4.5 |
| OU3-5MR | 3/1/2007 | 993.96 | 93.41 | 2.97 |
| OU3-5MR | 9/4/2007 | 990.22 | 97.15 | -3.74 |
| OU3-5MR | 3/6/2008 | 992.28 | 95.09 | 2.06 |
| OU3-5MR | 9/2/2008 | 991.7 | 95.67 | -0.58 |
| OU3-5MR | 3/2/2009 | 995.81 | 91.56 | 4.11 |
| OU3-5MR | 9/8/2009 | 993.83 | 93.54 | -1.98 |
| OU3-5MR | 3/15/2010 | 996.18 | 91.19 | 2.35 |
| OU3-5MR | 9/13/2010 | 997.56 | 89.81 | 1.38 |
| OU3-5MR | 3/7/2011 | 1000.53 | 86.84 | 2.97 |
| OU3-5MR | 9/6/2011 | 995.72 | 91.65 | -4.81 |
| OU3-5MR | 3/12/2012 | 996.74 | 90.63 | 1.02 |
| OU3-5MR | 9/11/2012 | 992.03 | 95.34 | -4.71 |
| OU3-5MR | 3/5/2013 | 991.74 | 95.63 | -0.29 |
| OU3-5SR | 8/11/2003 | 992.89 | 94.39 | -- |
| OU3-5SR | 12/1/2003 | 991.31 | 95.97 | -1.58 |
| OU3-5SR | 3/1/2004 | 993.1 | 94.18 | 1.79 |
| OU3-5SR | 9/1/2004 | 988.67 | 98.61 | -4.43 |
| OU3-5SR | 3/1/2005 | 990.84 | 96.44 | 2.17 |
| OU3-5SR | 9/1/2005 | 992.76 | 94.52 | 1.92 |
| OU3-5SR | 3/1/2006 | 995.56 | 91.72 | 2.8 |
| OU3-5SR | 9/5/2006 | 991.1 | 96.18 | -4.46 |
| OU3-5SR | 4/3/2007 | 994.38 | 92.9 | 3.28 |
| OU3-5SR | 9/4/2007 | 990.32 | 96.96 | -4.06 |
| OU3-5SR | 3/6/2008 | 992.33 | 94.95 | 2.01 |
| OU3-5SR | 9/2/2008 | 991.77 | 95.51 | -0.56 |
| OU3-5SR | 3/2/2009 | 995.77 | 91.51 | 4 |
| OU3-5SR | 9/8/2009 | 993.89 | 93.39 | -1.88 |
| OU3-5SR | 3/15/2010 | 996.26 | 91.02 | 2.37 |
| OU3-5SR | 9/13/2010 | 997.64 | 89.64 | 1.38 |
| OU3-5SR | 3/7/2011 | 1000.55 | 86.73 | 2.91 |
| OU3-5SR | 9/6/2011 | 995.78 | 91.5 | -4.77 |
| OU3-5SR | 3/12/2012 | 996.83 | 90.45 | 1.05 |
| OU3-5SR | 9/11/2012 | 992.19 | 95.09 | -4.64 |
| OU3-5SR | 3/5/2013 | 991.78 | 95.5 | -0.41 |
| OU3-6D | 6/18/2002 | 998.88 | 84.89 | -- |
| OU3-6D | 9/3/2002 | 995.93 | 87.84 | -2.95 |
| OU3-6D | 12/16/2002 | 996.73 | 87.04 | 0.8 |
| OU3-6D | 2/27/2003 | 998.43 | 85.34 | 1.7 |
| OU3-6D | 9/2/2003 | 992.79 | 90.98 | -5.64 |
| OU3-6D | 3/1/2004 | 995.44 | 88.33 | 2.65 |
| OU3-6D | 9/1/2004 | 988.9 | 94.87 | -6.54 |
| OU3-6D | 3/1/2005 | 994.65 | 89.12 | 5.75 |
| OU3-6D | 9/1/2005 | 994.44 | 89.33 | -0.21 |
| OU3-6D | 3/6/2006 | 1000.23 | 83.54 | 5.79 |
| OU3-6D | 9/5/2006 | 992.37 | 91.4 | -7.86 |
| OU3-6D | 3/1/2007 | 996.72 | 87.05 | 4.35 |
| OU3-6D | 9/4/2007 | 991.32 | 92.45 | -5.4 |
| OU3-6D | 3/6/2008 | 995.58 | 88.19 | 4.26 |
| OU3-6D | 9/2/2008 | 993.74 | 90.03 | -1.84 |
| OU3-6D | 3/2/2009 | 998.93 | 84.84 | 5.19 |
| OU3-6D | 9/8/2009 | 995.63 | 88.14 | -3.3 |
| OU3-6D | 3/15/2010 | 999.88 | 83.89 | 4.25 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-6D | 9/13/2010 | 999.93 | 83.84 | 0.05 |
| OU3-6D | 3/7/2011 | 1003.71 | 80.06 | 3.78 |
| OU3-6D | 9/6/2011 | 997.2 | 86.57 | -6.51 |
| OU3-6D | 3/13/2012 | 999.32 | 84.45 | 2.12 |
| OU3-6D | 9/11/2012 | 993.08 | 90.69 | -6.24 |
| OU3-6D | 3/5/2013 | 994.44 | 89.33 | 1.36 |
| OU3-6M | 6/18/2002 | 996.52 | 87.14 | -- |
| OU3-6M | 9/3/2002 | 993.62 | 90.04 | -2.9 |
| OU3-6M | 12/16/2002 | 993.27 | 90.39 | -0.35 |
| OU3-6M | 2/27/2003 | 995.1 | 88.56 | 1.83 |
| OU3-6M | 9/2/2003 | 990.06 | 93.6 | -5.04 |
| OU3-6M | 3/1/2004 | 992.28 | 91.38 | 2.22 |
| OU3-6M | 9/1/2004 | 986.73 | 96.93 | -5.55 |
| OU3-6M | 3/1/2005 | 990.39 | 93.27 | 3.66 |
| OU3-6M | 9/1/2005 | 991.47 | 92.19 | 1.08 |
| OU3-6M | 3/1/2006 | 994.91 | 88.75 | 3.44 |
| OU3-6M | 9/5/2006 | 989.37 | 94.29 | -5.54 |
| OU3-6M | 3/1/2007 | 993.31 | 90.35 | 3.94 |
| OU3-6M | 9/4/2007 | 988.54 | 95.12 | -4.77 |
| OU3-6M | 3/6/2008 | 991.71 | 91.95 | 3.17 |
| OU3-6M | 9/2/2008 | 990.38 | 93.28 | -1.33 |
| OU3-6M | 3/2/2009 | 995.23 | 88.43 | 4.85 |
| OU3-6M | 9/8/2009 | 992.51 | 91.15 | -2.72 |
| OU3-6M | 3/15/2010 | 995.75 | 87.91 | 3.24 |
| OU3-6M | 9/13/2010 | 996.54 | 87.12 | 0.79 |
| OU3-6M | 3/7/2011 | 1000.19 | 83.47 | 3.65 |
| OU3-6M | 9/6/2011 | 994.31 | 89.35 | -5.88 |
| OU3-6M | 3/13/2012 | 995.88 | 87.78 | 1.57 |
| OU3-6M | 9/11/2012 | 990.68 | 92.98 | -5.2 |
| OU3-6M | 3/5/2013 | 990.94 | 92.72 | 0.26 |
| OU3-7M2 | 6/18/2002 | 1001.29 | 84.3 | -- |
| OU3-7M2 | 9/3/2002 | 998.68 | 86.91 | -2.61 |
| OU3-7M2 | 12/16/2002 | 996.82 | 88.77 | -1.86 |
| OU3-7M2 | 2/27/2003 | 997.74 | 87.85 | 0.92 |
| OU3-7M2 | 9/2/2003 | 995.19 | 90.4 | -2.55 |
| OU3-7M2 | 3/1/2004 | 994.64 | 90.95 | -0.55 |
| OU3-7M2 | 9/1/2004 | 991.64 | 93.95 | -3 |
| OU3-7M2 | 3/1/2005 | 992.02 | 93.57 | 0.38 |
| OU3-7M2 | 9/1/2005 | 994.68 | 90.91 | 2.66 |
| OU3-7M2 | 3/1/2006 | 996.62 | 88.97 | 1.94 |
| OU3-7M2 | 9/5/2006 | 993.82 | 91.77 | -2.8 |
| OU3-7M2 | 3/1/2007 | 995.32 | 90.27 | 1.5 |
| OU3-7M2 | 9/4/2007 | 993.52 | 92.07 | -1.8 |
| OU3-7M2 | 3/6/2008 | 993.48 | 92.11 | -0.04 |
| OU3-7M2 | 9/2/2008 | 993.73 | 91.86 | 0.25 |
| OU3-7M2 | 3/2/2009 | 996.57 | 89.02 | 2.84 |
| OU3-7M2 | 3/2/2009 | 996.57 | 89.02 | 0 |
| OU3-7M2 | 9/8/2009 | 995.83 | 89.76 | -0.74 |
| OU3-7M2 | 3/15/2010 | 997.13 | 88.46 | 1.3 |
| OU3-7M2 | 9/13/2010 | 998.96 | 86.63 | 1.83 |
| OU3-7M2 | 3/7/2011 | 1001.06 | 84.53 | 2.1 |
| OU3-7M2 | 9/6/2011 | 997.89 | 87.7 | -3.17 |
| OU3-7M2 | 3/13/2012 | 998.04 | 87.55 | 0.15 |
| OU3-7M2 | 9/11/2012 | 994.38 | 91.21 | -3.66 |
| OU3-7M2 | 3/5/2013 | 993.3 | 92.29 | -1.08 |
| OU3-7S | 6/18/2002 | 1001.09 | 84.2 | -- |
| OU3-7S | 9/3/2002 | 998.4 | 86.89 | -2.69 |
| OU3-7S | 12/16/2002 | 996.52 | 88.77 | -1.88 |
| OU3-7S | 2/27/2003 | 997.44 | 87.85 | 0.92 |
| OU3-7S | 9/2/2003 | 994.96 | 90.33 | -2.48 |
| OU3-7S | 3/1/2004 | 994.34 | 90.95 | -0.62 |
| OU3-7S | 9/1/2004 | 991.34 | 93.95 | -3 |
| OU3-7S | 3/1/2005 | 991.71 | 93.58 | 0.37 |
| OU3-7S | 9/1/2005 | 994.4 | 90.89 | 2.69 |
| OU3-7S | 3/1/2006 | 996.33 | 88.96 | 1.93 |
| OU3-7S | 9/5/2006 | 993.56 | 91.73 | -2.77 |
| OU3-7S | 3/1/2007 | 995.02 | 90.27 | 1.46 |
| OU3-7S | 9/4/2007 | 992.64 | 92.65 | -2.38 |
| OU3-7S | 3/6/2008 | 993.18 | 92.11 | 0.54 |
| OU3-7S | 9/2/2008 | 993.46 | 91.83 | 0.28 |
| OU3-7S | 3/2/2009 | 996.27 | 89.02 | 2.81 |
| OU3-7S | 9/8/2009 | 995.57 | 89.72 | -0.7 |
| OU3-7S | 3/15/2010 | 996.84 | 88.45 | 1.27 |
| OU3-7S | 9/13/2010 | 998.69 | 86.6 | 1.85 |
| OU3-7S | 3/7/2011 | 1000.8 | 84.49 | 2.11 |
| OU3-7S | 9/6/2011 | 997.67 | 87.62 | -3.13 |
| OU3-7S | 3/13/2012 | 997.77 | 87.52 | 0.1 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-7S | 9/11/2012 | 994.16 | 91.13 | -3.61 |
| OU3-7S | 3/5/2013 | 993.06 | 92.23 | -1.1 |
| OU3-8D | 6/18/2002 | 991.89 | 88.11 | -- |
| OU3-8D | 9/3/2002 | 988.43 | 91.57 | -3.46 |
| OU3-8D | 12/16/2002 | 990.63 | 89.37 | 2.2 |
| OU3-8D | 2/27/2003 | 993.03 | 86.97 | 2.4 |
| OU3-8D | 9/2/2003 | 985.67 | 94.33 | -7.36 |
| OU3-8D | 3/1/2004 | 990.22 | 89.78 | 4.55 |
| OU3-8D | 9/1/2004 | 981.42 | 98.58 | -8.8 |
| OU3-8D | 3/1/2005 | 988.42 | 91.58 | 7 |
| OU3-8D | 9/1/2005 | 986.75 | 93.25 | -1.67 |
| OU3-8D | 3/1/2006 | 992.75 | 87.25 | 6 |
| OU3-8D | 9/5/2006 | 984.58 | 95.42 | -8.17 |
| OU3-8D | 3/1/2007 | 990.58 | 89.42 | 6 |
| OU3-8D | 9/4/2007 | 983.24 | 96.76 | -7.34 |
| OU3-8D | 3/6/2008 | 989.17 | 90.83 | 5.93 |
| OU3-8D | 9/2/2008 | 985.3 | 94.7 | -3.87 |
| OU3-8D | 3/2/2009 | 992.26 | 87.74 | 6.96 |
| OU3-8D | 9/8/2009 | 987.29 | 92.71 | -4.97 |
| OU3-8D | 3/15/2010 | 993.41 | 86.59 | 6.12 |
| OU3-8D | 9/13/2010 | 991.09 | 88.91 | -2.32 |
| OU3-8D | 3/7/2011 | 997.48 | 82.52 | 6.39 |
| OU3-8D | 9/6/2011 | 989.2 | 90.8 | -8.28 |
| OU3-8D | 3/13/2012 | 992.91 | 87.09 | 3.71 |
| OU3-8D | 9/11/2012 | 985.23 | 94.77 | -7.68 |
| OU3-8D | 3/5/2013 | 988.59 | 91.41 | 3.36 |
| OU3-8M2 | 6/18/2002 | 990.95 | 89.44 | -- |
| OU3-8M2 | 9/3/2002 | 987.6 | 92.79 | -3.35 |
| OU3-8M2 | 12/16/2002 | 987.69 | 92.7 | 0.09 |
| OU3-8M2 | 2/27/2003 | 989.99 | 90.4 | 2.3 |
| OU3-8M2 | 9/2/2003 | 984.69 | 95.7 | -5.3 |
| OU3-8M2 | 3/1/2004 | 987.31 | 93.08 | 2.62 |
| OU3-8M2 | 9/1/2004 | 980.75 | 99.64 | -6.56 |
| OU3-8M2 | 3/1/2005 | 984.53 | 95.86 | 3.78 |
| OU3-8M2 | 9/1/2005 | 984.93 | 95.46 | 0.4 |
| OU3-8M2 | 3/1/2006 | 989.55 | 90.84 | 4.62 |
| OU3-8M2 | 9/5/2006 | 982.97 | 97.42 | -6.58 |
| OU3-8M2 | 3/1/2007 | 987.45 | 92.94 | 4.48 |
| OU3-8M2 | 9/4/2007 | 981.83 | 98.56 | -5.62 |
| OU3-8M2 | 3/6/2008 | 985.6 | 94.79 | 3.77 |
| OU3-8M2 | 9/2/2008 | 983.16 | 97.23 | -2.44 |
| OU3-8M2 | 3/2/2009 | 988.8 | 91.59 | 5.64 |
| OU3-8M2 | 9/8/2009 | 985.26 | 95.13 | -3.54 |
| OU3-8M2 | 3/15/2010 | 989.57 | 90.82 | 4.31 |
| OU3-8M2 | 9/13/2010 | 988.88 | 91.51 | -0.69 |
| OU3-8M2 | 3/7/2011 | 994.08 | 86.31 | 5.2 |
| OU3-8M2 | 9/6/2011 | 987.49 | 92.9 | -6.59 |
| OU3-8M2 | 3/13/2012 | 989.99 | 90.4 | 2.5 |
| OU3-8M2 | 9/11/2012 | 983.94 | 96.45 | -6.05 |
| OU3-8M2 | 3/5/2013 | 985.32 | 95.07 | 1.38 |
| OU3-8S | 6/18/2002 | 990.66 | 89.39 | -- |
| OU3-8S | 9/3/2002 | 987.12 | 92.93 | -3.54 |
| OU3-8S | 12/16/2002 | 987.12 | 92.93 | 0 |
| OU3-8S | 2/27/2003 | 989.44 | 90.61 | 2.32 |
| OU3-8S | 9/2/2003 | 984.33 | 95.72 | -5.11 |
| OU3-8S | 3/1/2004 | 986.76 | 93.29 | 2.43 |
| OU3-8S | 9/1/2004 | 980.22 | 99.83 | -6.54 |
| OU3-8S | 3/1/2005 | 983.83 | 96.22 | 3.61 |
| OU3-8S | 9/1/2005 | 984.36 | 95.69 | 0.53 |
| OU3-8S | 3/1/2006 | 988.87 | 91.18 | 4.51 |
| OU3-8S | 9/5/2006 | 982.35 | 97.7 | -6.52 |
| OU3-8S | 3/1/2007 | 986.8 | 93.25 | 4.45 |
| OU3-8S | 9/4/2007 | 981.21 | 98.84 | -5.59 |
| OU3-8S | 3/6/2008 | 984.89 | 95.16 | 3.68 |
| OU3-8S | 9/2/2008 | 982.48 | 97.57 | -2.41 |
| OU3-8S | 3/2/2009 | 988.1 | 91.95 | 5.62 |
| OU3-8S | 9/8/2009 | 984.65 | 95.4 | -3.45 |
| OU3-8S | 3/15/2010 | 990 | 90.05 | 5.35 |
| OU3-8S | 9/13/2010 | 988.08 | 91.97 | -1.92 |
| OU3-8S | 3/7/2011 | 993.44 | 86.61 | 5.36 |
| OU3-8S | 9/6/2011 | 986.92 | 93.13 | -6.52 |
| OU3-8S | 3/13/2012 | 989.43 | 90.62 | 2.51 |
| OU3-8S | 9/11/2012 | 983.3 | 96.75 | -6.13 |
| OU3-8S | 3/5/2013 | 984.76 | 95.29 | 1.46 |
| OU3-9M2 | 5/29/2003 | 990.32 | 90.42 | -- |
| OU3-9M2 | 9/2/2003 | 986.55 | 94.19 | -3.77 |
| OU3-9M2 | 12/1/2003 | 985.57 | 95.17 | -0.98 |

**Table D-1**

*Historical Groundwater Elevations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | Measurement Date | Groundwater Elevation | Depth to Water | Groundwater Elevation Change |
|---|---|---|---|---|
| OU3-9M2 | 3/1/2004 | 987.89 | 92.85 | 2.32 |
| OU3-9M2 | 9/1/2004 | 982.7 | 98.04 | -5.19 |
| OU3-9M2 | 3/1/2005 | 984.96 | 95.78 | 2.26 |
| OU3-9M2 | 9/1/2005 | 986.21 | 94.53 | 1.25 |
| OU3-9M2 | 3/1/2006 | 989.83 | 90.91 | 3.62 |
| OU3-9M2 | 9/5/2006 | 984.66 | 96.08 | -5.17 |
| OU3-9M2 | 3/1/2007 | 987.95 | 92.79 | 3.29 |
| OU3-9M2 | 9/4/2007 | 983.53 | 97.21 | -4.42 |
| OU3-9M2 | 3/6/2008 | 986.06 | 94.68 | 2.53 |
| OU3-9M2 | 9/2/2008 | 984.52 | 96.22 | -1.54 |
| OU3-9M2 | 3/2/2009 | 989.12 | 91.62 | 4.6 |
| OU3-9M2 | 9/8/2009 | 986.53 | 94.21 | -2.59 |
| OU3-9M2 | 3/15/2010 | 989.82 | 90.92 | 3.29 |
| OU3-9M2 | 9/13/2010 | 989.72 | 91.02 | -0.1 |
| OU3-9M2 | 3/7/2011 | 994.21 | 86.53 | 4.49 |
| OU3-9M2 | 9/6/2011 | 980.83 | 99.91 | -13.38 |
| OU3-9M2 | 3/13/2012 | 990.62 | 90.12 | 9.79 |
| OU3-9M2 | 9/11/2012 | 985.33 | 95.41 | -5.29 |
| OU3-9M2 | 3/5/2013 | 985.96 | 94.78 | 0.63 |
| OU3-9S | 6/18/2002 | 992.5 | 88.05 | -- |
| OU3-9S | 9/3/2002 | 989.36 | 91.19 | -3.14 |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| BE-MW-8 | BE-MW-8-11504 | 3/18/2008 | 18 | J | 1.3 | | < 0.5 | | 0.35 | J |
| BE-MW-8 | BE-MW-8-11506 | 9/15/2008 | 16 | | 1.1 | | < 0.5 | | 0.25 | J |
| BE-MW-8 | BE-MW-8-11583 | 3/10/2009 | 4.3 | | 0.53 | | < 0.5 | | < 0.5 | |
| BE-MW-8 | BE-MW-8-11660 | 9/29/2009 | 6 | | 0.59 | | < 0.5 | | 0.22 | J |
| BE-MW-8 | BE-MW-8-S-031610 | 3/16/2010 | 7.7 | | 0.60 | | < 0.50 | | < 0.50 | |
| BE-MW-8 | BE-MW-8-S-091410 | 9/14/2010 | 8.8 | | 0.66 | | < 0.50 | | < 0.50 | |
| BE-MW-8 | BE-MW-8-S-030811 | 3/8/2011 | 8.8 | | 0.50 | | < 0.50 | | < 0.50 | |
| BE-MW-8 | BE-MW-8-S-091211 | 9/12/2011 | 5.2 | | 0.61 | | < 0.50 | | < 0.50 | |
| BE-MW-8 | BE-MW-8-S-032612 | 3/26/2012 | 6.2 | | < 0.50 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-10006 | 6/24/2002 | < 1 | | 1 | | 1 | | < 1 | |
| DT-DW-5 | DT-DW-5-10062 | 9/9/2002 | < 1 | | 0.9 | J | < 1 | UJ | < 1 | |
| DT-DW-5 | DT-DW-5-10127 | 12/20/2002 | < 1 | | 10 | U | 2 | | 1 | U |
| DT-DW-5 | DT-DW-5-10195 | 3/3/2003 | < 1 | | 1 | | 1 | | < 1 | |
| DT-DW-5 | DT-DW-5-10503 | 3/5/2004 | < 1 | | 0.9 | UJ | 0.6 | J | < 1 | |
| DT-DW-5 | DT-DW-5-10677 | 3/16/2005 | 0.17 | J | 1.1 | U | 0.49 | J | 0.37 | U |
| DT-DW-5 | DT-DW-5-10801 | 9/21/2005 | 0.24 | J- | 1 | | 0.28 | J- | 0.55 | |
| DT-DW-5 | DT-DW-5-10919 | 3/13/2006 | 0.28 | J | 1.3 | | < 0.5 | | < 0.5 | |
| DT-DW-5 | DT-DW-5-11047 | 9/13/2006 | < 0.5 | UJ | 1.1 | J | < 0.5 | UJ | 0.78 | J |
| DT-DW-5 | DT-DW-5-11163 | 3/15/2007 | 0.26 | J+ | 1.1 | J+ | 0.22 | J+ | 0.83 | J+ |
| DT-DW-5 | DT-DW-5-11278 | 9/12/2007 | 0.36 | J | 1.3 | U | 0.25 | J | 0.58 | |
| DT-DW-5 | DT-DW-5-11393 | 3/19/2008 | 0.32 | J | 0.86 | | < 0.5 | | 0.66 | |
| DT-DW-5 | DT-DW-5-11508 | 9/19/2008 | 0.31 | J | 0.84 | | < 0.5 | | 0.73 | |
| DT-DW-5 | DT-DW-5-11584 | 3/11/2009 | < 0.5 | | 0.41 | J | < 0.5 | | 0.29 | J |
| DT-DW-5 | DT-DW-5-11661 | 9/29/2009 | < 0.5 | | 0.41 | J | < 0.5 | | 0.35 | J |
| DT-DW-5 | DT-DW-5-S-031610 | 3/16/2010 | < 0.50 | | 0.67 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-S-091310 | 9/13/2010 | < 0.50 | | 0.51 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-S-030811 | 3/8/2011 | < 0.50 | | 0.54 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-S-091611 | 9/16/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-031212 | 3/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-S-091012 | 9/10/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| DT-DW-5 | DT-DW-5-S-030413 | 3/4/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-10602 | 9/21/2004 | 0.5 | U | 0.5 | U | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-10726 | 3/3/2005 | 0.12 | J | 0.36 | J | < 0.5 | | 0.25 | J |
| EW-13-118 | EW-13-118-10843 | 9/2/2005 | < 0.5 | | 0.24 | J- | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-10961 | 3/16/2006 | 0.15 | J | 0.28 | J | < 0.5 | UJ | < 0.5 | UJ |
| EW-13-118 | EW-13-118-11089 | 9/25/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-11204 | 3/2/2007 | < 0.5 | | 0.3 | J | < 0.5 | | 0.32 | J |
| EW-13-118 | EW-13-118-11319 | 9/5/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-11434 | 3/24/2008 | 0.2 | J | 0.13 | J | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-11548 | 9/4/2008 | < 0.5 | | 0.5 | U | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-11585 | 3/16/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-11662 | 10/1/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-118 | EW-13-118-5-032610 | 3/26/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-S-092410 | 9/24/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-S-031811 | 3/18/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-S-092011 | 9/20/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-031212 | 3/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-S-091012 | 9/10/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-118 | EW-13-118-S-030413 | 3/4/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-10603 | 9/21/2004 | 0.5 | U | 0.92 | J | 0.16 | J | < 0.5 | |
| EW-13-168 | EW-13-168-10727 | 3/3/2005 | 0.12 | J | 0.52 | | < 0.5 | | 0.38 | J |
| EW-13-168 | EW-13-168-10844 | 9/2/2005 | < 0.5 | | 0.37 | J | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-10962 | 3/16/2006 | 0.14 | J | 0.36 | J | < 0.5 | UJ | < 0.5 | UJ |
| EW-13-168 | EW-13-168-11090 | 9/25/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-11205 | 3/2/2007 | < 0.5 | | 0.36 | J | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-11320 | 9/5/2007 | < 0.5 | | 0.42 | J+ | < 0.5 | | 0.31 | J |
| EW-13-168 | EW-13-168-11435 | 3/24/2008 | 0.28 | J | 0.17 | J | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-11549 | 9/4/2008 | 0.5 | U | 0.5 | U | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-11586 | 3/16/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-11663 | 10/1/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-168 | EW-13-168-M-032610 | 3/26/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-M-092410 | 9/24/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-M-031811 | 3/18/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-M-091611 | 9/16/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-031212 | 3/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-M-091012 | 9/10/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-168 | EW-13-168-M-030413 | 3/4/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-10604 | 9/21/2004 | < 0.5 | | 3.2 | J | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-10728 | 3/4/2005 | < 0.5 | | 2.7 | | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-10845 | 9/2/2005 | < 0.5 | | 2.4 | | < 0.5 | | < 0.5 | UJ |
| EW-13-228 | EW-13-228-10963 | 3/16/2006 | 0.15 | J | 3 | J | < 0.5 | UJ | < 0.5 | UJ |
| EW-13-228 | EW-13-228-11091 | 9/25/2006 | < 0.5 | | 3.3 | | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-11206 | 3/2/2007 | 0.22 | U | 5.3 | J | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-11321 | 9/5/2007 | < 0.5 | | 4.1 | | < 0.5 | | < 0.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| EW-13-228 | EW-13-228-11436 | 3/24/2008 | 0.32 | J | 4 | | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-11550 | 9/4/2008 | 0.5 | U | 3.6 | | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-11587 | 3/16/2009 | < 0.5 | | 1.6 | | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-11664 | 10/1/2009 | < 0.5 | | 0.99 | | < 0.5 | | < 0.5 | |
| EW-13-228 | EW-13-228-M-032610 | 3/26/2010 | < 0.50 | | 2.9 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-D-092410 | 9/24/2010 | < 0.50 | | 2.2 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-D-031811 | 3/18/2011 | < 0.50 | | 2.2 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-D-091611 | 9/16/2011 | < 0.50 | | 1.8 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-031212 | 3/12/2012 | < 0.50 | | 2.5 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-D-091012 | 9/10/2012 | < 0.50 | | 2.7 | | < 0.50 | | < 0.50 | |
| EW-13-228 | EW-13-228-D-030413 | 3/4/2013 | 3.2 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-10605 | 9/21/2004 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-10729 | 3/3/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-10846 | 9/2/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-10964 | 3/16/2006 | < 0.5 | UJ | < 0.5 | UJ | < 0.5 | UJ | < 0.5 | UJ |
| EW-13-268 | EW-13-268-11092 | 9/25/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-11207 | 3/2/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-11322 | 9/5/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-11437 | 3/24/2008 | 0.24 | J | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-11551 | 9/4/2008 | 0.5 | U | 0.5 | U | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-11588 | 3/16/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-11665 | 10/1/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-13-268 | EW-13-268-D-032610 | 3/26/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-D-092410 | 9/24/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-D-031811 | 3/18/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-D-091611 | 9/16/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-031212 | 3/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-D-091012 | 9/10/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-13-268 | EW-13-268-D-030413 | 3/4/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | EW-19D-10085 | 9/12/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| EW-19D | EW-19D-10178 | 12/18/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| EW-19D | EW-19D-10210 | 3/5/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| EW-19D | EW-19D-10353 | 9/7/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| EW-19D | EW-19D-10476 | 3/3/2004 | 1 | | 3.6 | | < 1 | | < 1 | UJ |
| EW-19D | EW-19D-10574 | 9/9/2004 | 0.28 | U | 1.5 | | 0.28 | J | 0.19 | J |
| EW-19D | EW-19D-10692 | 3/7/2005 | < 0.5 | | 0.35 | U | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-10815 | 9/27/2005 | < 0.5 | | 0.11 | U | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-10933 | 3/7/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-11061 | 9/14/2006 | < 0.5 | UJ | < 0.5 | UJ | < 0.5 | UJ | < 0.5 | UJ |
| EW-19D | EW-19D-11176 | 3/13/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-11291 | 9/12/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-11406 | 3/18/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-11521 | 9/22/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-11589 | 3/12/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-11666 | 9/22/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| EW-19D | EW-19D-D-032510 | 3/25/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | EW-19D-D-091610 | 9/16/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | EW-19D-D-031411 | 3/14/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | EW-19D-D-091511 | 9/15/2011 | < 0.50 | UJ | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | EW-19D-D-032212 | 3/22/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | OU3-19D-D-092112 | 9/21/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19D | EW-19D-D-031513 | 3/15/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-19S | EW-19S-10084 | 9/12/2002 | 17 | | 380 | | 90 | | 10 | |
| EW-19S | EW-19S-10179 | 12/20/2002 | 16 | | 720 | | 150 | | 8 | U |
| EW-19S | EW-19S-10211 | 3/5/2003 | 19 | | 700 | | 120 | | 7 | |
| EW-19S | EW-19S-10354 | 9/7/2003 | 19 | | 440 | | 98 | | 10 | |
| EW-19S | EW-19S-10477 | 3/2/2004 | 18 | | 380 | | 85 | | 11 | |
| EW-19S | EW-19S-10575 | 9/2/2004 | 12 | | 220 | | 55 | | 1.5 | |
| EW-19S | EW-19S-10693 | 3/8/2005 | 13 | | 310 | | 73 | | 17 | |
| EW-19S | EW-19S-10816 | 9/27/2005 | 6.3 | | 140 | | 40 | J+ | 19 | |
| EW-19S | EW-19S-10934 | 3/7/2006 | 6 | | 78 | D | 21 | D | < 0.5 | |
| EW-19S | EW-19S-11062 | 9/14/2006 | 3 | J | 68 | D | 19 | J | 9.8 | J |
| EW-19S | EW-19S-11177 | 3/13/2007 | 3.4 | | 76 | J+ | 17 | J+ | 7.7 | |
| EW-19S | EW-19S-11292 | 9/12/2007 | 3.7 | | 53 | D | 19 | | 9 | |
| EW-19S | EW-19S-11407 | 3/18/2008 | 3.3 | | 54 | D | 16 | J+ | 10 | J+ |
| EW-19S | EW-19S-11522 | 9/23/2008 | 2.1 | | 35 | D | 8.8 | J+ | 7.7 | J+ |
| EW-19S | EW-19S-11590 | 3/12/2009 | 0.64 | | 12 | | 2.6 | | 2.7 | |
| EW-19S | EW-19S-11667 | 9/22/2009 | 0.58 | | 8.6 | | 2.2 | | 2.2 | |
| EW-19S | EW-19S-S-032310 | 3/23/2010 | 0.99 | | 18 | | 4.7 | | 4.4 | |
| EW-19S | EW-19S-S-091610 | 9/16/2010 | 0.77 | | 14 | | 3.4 | | 1.2 | |
| EW-19S | EW-19S-S-031511 | 3/15/2011 | < 0.50 | | 7.8 | | 2.3 | J | 3.1 | |
| EW-19S | EW-19S-S-091511 | 9/15/2011 | 0.69 | J | 9.6 | | 2.4 | | 2.5 | |
| EW-19S | EW-19S-S-032212 | 3/22/2012 | < 0.50 | | 7.1 | | 1.8 | | 1.3 | |
| EW-19S | OU3-19S-S-092112 | 9/21/2012 | 0.66 | | 11 | | 3.1 | | 2.8 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| EW-19S | EW-19S-S-031513 | 3/15/2013 | 9.4 | | 0.63 | | 2.2 | | 2.2 | |
| EW-19S | EW-19S-S-031513-Q1 | 3/15/2013 | 9.3 | | 0.57 | | 2.3 | | 2.3 | |
| EW-20 | EW-20-10010 | 6/26/2002 | 9 | | 260 | | 40 | | 0.9 | J |
| EW-20 | EW-20-10011 | 6/26/2002 | 10 | | 300 | | 50 | | 1 | |
| EW-20 | EW-20-10066 | 9/10/2002 | 7 | | 150 | | 21 | | < 1 | |
| EW-20 | EW-20-10067 | 9/10/2002 | 7 | | 150 | | 20 | | < 1 | |
| EW-20 | EW-20-10131 | 12/18/2002 | 6 | | 170 | | 20 | | 0.5 | J |
| EW-20 | EW-20-10132 | 12/18/2002 | 6 | | 180 | | 20 | | < 1 | |
| EW-20 | EW-20-10213 | 3/3/2003 | 4 | | 100 | | 19 | | < 1 | |
| EW-20 | EW-20-10214 | 3/3/2003 | 5 | | 100 | | 25 | J | < 1 | |
| EW-20 | EW-20-10355 | 9/4/2003 | 2.4 | U | 72 | | 16 | | < 1 | |
| EW-20 | EW-20-10356 | 9/4/2003 | 2.7 | U | 70 | | 16 | | < 1 | |
| EW-20 | EW-20-10478 | 3/4/2004 | 3.1 | | 63 | | 11 | | < 1 | |
| EW-20 | EW-20-10576 | 9/7/2004 | 1.5 | | 45 | | 6.9 | | < 0.5 | |
| EW-20 | EW-20-10694 | 3/16/2005 | 1.5 | J | 38 | | 6.7 | | 0.34 | U |
| EW-20 | EW-20-10817 | 9/20/2005 | 3.2 | | 73 | | 16 | J+ | 0.17 | J+ |
| EW-20 | EW-20-10935 | 3/2/2006 | 2.9 | | 48 | D | 14 | | < 0.5 | |
| EW-20 | EW-20-11063 | 9/6/2006 | 2.7 | | 75 | D | 14 | | < 0.5 | |
| EW-20 | EW-20-11178 | 3/13/2007 | 2.7 | | 58 | D | 15 | | 1.8 | |
| EW-20 | EW-20-11293 | 9/7/2007 | 2.1 | | 56 | D | 10 | | 0.66 | |
| EW-20 | EW-20-11408 | 3/18/2008 | 1.9 | | 47 | D | 9.5 | | 0.63 | |
| EW-20 | EW-20-11523 | 9/23/2008 | 2.4 | | 45 | D | 11 | | 3.2 | |
| EW-20 | EW-20-11591 | 3/5/2009 | 0.76 | | 18 | | 3.6 | J+ | 1.4 | J+ |
| EW-20 | EW-20-11668 | 9/28/2009 | 0.91 | | 20 | | 4.3 | J+ | 2.5 | J+ |
| EW-20 | EW-20-S-032310 | 3/23/2010 | 1.3 | | 34 | | 7.6 | | 3.9 | |
| EW-20 | EW-20-S-092010 | 9/20/2010 | 1.2 | | 30 | | 6.2 | | 2.2 | |
| EW-20 | EW-20-S-092010-Q1 | 9/20/2010 | 1.4 | | 28 | | 6.7 | | 3.2 | |
| EW-20 | EW-20-S-031711 | 3/17/2011 | 1.0 | | 22 | | 5.0 | J | 3.2 | |
| EW-20 | EW-20-S-091511 | 9/15/2011 | 1.1 | J | 26 | | 5.2 | | 2.6 | |
| EW-20 | EW-20-S-091511-Q1 | 9/15/2011 | 1.2 | J | 24 | | 5.2 | | 3.2 | |
| EW-20 | EW-20-S-032112 | 3/21/2012 | 1.0 | | 24 | | 4.3 | | 3.4 | |
| EW-20 | EW-20-S-091212 | 9/12/2012 | 1.0 | | 22 | | 4.7 | | 3.3 | |
| EW-20 | EW-20-S-031313 | 3/13/2013 | 24 | | 1.0 | | 4.4 | | 2.8 | |
| EW-21 | EW-21-10086 | 9/13/2002 | 0.7 | J | 21 | | 3 | | < 1 | |
| EW-21 | EW-21-10180 | 12/18/2002 | 0.5 | J | 12 | | 1 | | < 1 | |
| EW-21 | EW-21-10217 | 3/7/2003 | 0.5 | J | 11 | | 1 | | < 1 | |
| EW-21 | EW-21-10357 | 9/4/2003 | 0.6 | U | 4.3 | | 0.6 | J | < 1 | |
| EW-21 | EW-21-10479 | 3/11/2004 | 0.6 | UJ | 8 | U | 0.9 | J | < 1 | |
| EW-21 | EW-21-10577 | 9/8/2004 | 0.82 | | 5.7 | | 0.65 | | < 0.5 | |
| EW-21 | EW-21-10695 | 3/16/2005 | 0.84 | | 5.4 | | 0.63 | | < 0.5 | |
| EW-21 | EW-21-10818 | 9/22/2005 | 0.78 | | 5 | | 0.77 | | < 0.5 | |
| EW-21 | EW-21-10936 | 3/3/2006 | 0.97 | | 5.4 | | 0.87 | | < 0.5 | |
| EW-21 | EW-21-11064 | 9/11/2006 | 1.3 | | 5.1 | | 0.57 | | < 0.5 | |
| EW-21 | EW-21-11179 | 3/12/2007 | 0.93 | | 4.2 | | 0.57 | | < 0.5 | |
| EW-21 | EW-21-11294 | 9/14/2007 | 0.79 | | 3.4 | | 0.45 | J | < 0.5 | |
| EW-21 | EW-21-11409 | 3/18/2008 | 0.88 | | 2.8 | | 0.29 | J | < 0.5 | |
| EW-21 | EW-21-11524 | 9/16/2008 | 0.71 | | 2 | | 0.28 | J | < 0.5 | |
| EW-21 | EW-21-11592 | 3/6/2009 | < 0.5 | | 1.2 | | < 0.5 | | < 0.5 | |
| EW-21 | EW-21-11669 | 9/29/2009 | 0.35 | J | 1.5 | | < 0.5 | | < 0.5 | |
| EW-21 | EW-21-S-032210 | 3/22/2010 | < 0.50 | | 2.5 | | < 0.50 | | < 0.50 | |
| EW-21 | EW-21-S-092010 | 9/20/2010 | < 0.50 | | 2.5 | | < 0.50 | | < 0.50 | |
| EW-21 | EW-21-S-030811 | 3/8/2011 | < 0.50 | | 3.0 | | < 0.50 | | < 0.50 | |
| EW-21 | EW-21-S-030811-Q1 | 3/8/2011 | < 0.50 | | 3.0 | | < 0.50 | | < 0.50 | |
| EW-21 | EW-21-S-091211 | 9/12/2011 | < 0.50 | | 1.9 | | < 0.50 | UJ | < 0.50 | |
| EW-21 | EW-21-S-032712 | 3/27/2012 | < 0.50 | | 1.3 | | < 0.50 | | < 0.50 | |
| EW-21 | EW-21S-S-091712 | 9/17/2012 | < 0.50 | | 0.67 | | < 0.50 | | < 0.50 | |
| EW-21 | EW-21-S-031113 | 3/11/2013 | 0.75 | | < 0.50 | | < 0.50 | | < 0.50 | |
| EW-22S | SSMOT-WG-121 | 9/18/2002 | 11 | | 240 | | 30 | | 0.9 | J |
| EW-22S | EW-22S-10243 | 3/7/2003 | 9 | | 260 | | 30 | | 1 | |
| EW-22S | GW-031810-PG-40 | 3/18/2010 | 1.2 | | 28 | | 5.9 | | 2.6 | |
| EW-22S | GW-091410-PG-32 | 9/14/2010 | 1.2 | | 29 | | 6.8 | | 4.0 | |
| EW-22S | GW-091511-PG-32 | 9/15/2011 | < 1.0 | | 24 | | 5.1 | | 3.4 | |
| EW-22S | EW-22S-S-032312 | 3/23/2012 | 1.2 | | 25 | | 3.9 | | 1.2 | |
| EW-22S | EW-22S-S-032312-Q1 | 3/23/2012 | 0.99 | | 23 | | 3.7 | | 1.9 | |
| EW-22S | GW-091912-PG-31 | 9/19/2012 | < 1.0 | | 16 | | 4.2 | | 1.8 | |
| EWOU3-10S-R | EW-24R-10009 | 6/27/2002 | 10 | | 430 | | 70 | | 50 | |
| EWOU3-10S-R | EW-24R-10065 | 9/10/2002 | 7 | | 200 | | 60 | | 21 | |
| EWOU3-10S-R | EW-24R-10130 | 12/20/2002 | 6 | | 390 | | 60 | | 15 | |
| EWOU3-10S-R | EW-24R-10198 | 3/3/2003 | 8 | | 200 | | 56 | | 11 | |
| EWOU3-10S-R | EW-24R-10464 | 3/2/2004 | 3.2 | U | 98 | U | 17 | | 5.3 | |
| EWOU3-10S-R | EWOU3-10S-R-10679 | 3/17/2005 | 4.2 | | 110 | | 31 | | 8.4 | |
| EWOU3-10S-R | EWOU3-10S-R-10921 | 3/10/2006 | 3.6 | | 46 | D | 13 | | 1 | |
| EWOU3-10S-R | EWOU3-10S-R-11165 | 3/9/2007 | 3.9 | J+ | 69 | D | 18 | J+ | 11 | J+ |
| EWOU3-10S-R | EWOU3-10S-R-11593 | 3/11/2009 | 0.68 | | 17 | | 3.6 | | 2.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| EWOU3-10S-R | EWOU3-10S-R-S-032210 | 3/22/2010 | 0.73 | | 14 | | 3.5 | | 2.7 | |
| EWOU3-10S-R | EWOU3-10S-R-S-092010 | 9/20/2010 | 0.88 | | 15 | | 3.7 | | 2.0 | |
| EWOU3-10S-R | EW0U3-10S-R-S-031511 | 3/15/2011 | 0.83 | | 14 | | 2.8 | | 2.1 | J |
| EWOU3-10S-R | EWOU3-10S-R-S-091311 | 9/13/2011 | 0.79 | | 14 | | 2.2 | | < 0.50 | |
| EWOU3-10S-R | EWOU3-10S-R-S-032012 | 3/20/2012 | 0.62 | | 11 | | 1.9 | | < 0.50 | |
| INTER-TEL MW-1 | IN-MW-1-10007 | 6/25/2002 | < 1 | | < 1 | UJ | < 1 | UJ | < 1 | UJ |
| INTER-TEL MW-1 | IN-MW-1-10063 | 9/10/2002 | 0.5 | J | 0.9 | J | < 1 | UJ | < 1 | UJ |
| OU3-10M | OU3-10M-WG-324 | 4/16/2003 | 9.1 | | 260 | | 40 | | 29 | |
| OU3-10M | OU3-10M-10251 | 6/5/2003 | 8.6 | | 250 | | 39 | | 32 | |
| OU3-10M | OU3-10M-10363 | 9/8/2003 | 6.1 | | 220 | | 43 | | 29 | |
| OU3-10M | OU3-10M-10427 | 12/1/2003 | 6.3 | | 180 | | 36 | | 30 | |
| OU3-10M | OU3-10M-10487 | 3/2/2004 | 7.4 | U | 230 | U | 45 | | 33 | |
| OU3-10M | OU3-10M-10585 | 9/2/2004 | 0.58 | U | 18 | | 5.9 | | 2.3 | |
| OU3-10M | OU3-10M-10704 | 3/7/2005 | 10 | | 260 | | 53 | | 36 | |
| OU3-10M | OU3-10M-10826 | 9/27/2005 | 5.6 | | 130 | | 32 | J+ | 25 | |
| OU3-10M | OU3-10M-10944 | 3/10/2006 | 6.8 | J | 110 | D | 30 | D | 28 | J |
| OU3-10M | OU3-10M-11072 | 9/8/2006 | 6.1 | | 130 | D | 29 | D | 25 | D |
| OU3-10M | OU3-10M-11187 | 3/9/2007 | 4.4 | J+ | 90 | D | 21 | D | 19 | J+ |
| OU3-10M | OU3-10M-11302 | 9/14/2007 | 4.2 | | 86 | D | 23 | D | 19 | D |
| OU3-10M | OU3-10M-11417 | 3/19/2008 | 4.3 | | 97 | D | 20 | D | 16 | J+ |
| OU3-10M | OU3-10M-11531 | 9/23/2008 | 3.2 | | 61 | D | 15 | J+ | 14 | J+ |
| OU3-10M | OU3-10M-11596 | 3/11/2009 | 0.88 | | 18 | D | 3.9 | J+ | 4.2 | J+ |
| OU3-10M | OU3-10M-11673 | 9/29/2009 | 0.78 | | 15 | | 3.6 | J | 4 | J |
| OU3-10M | OU3-10M-M-032210 | 3/22/2010 | 0.86 | | 21 | | 5.0 | | 5.5 | |
| OU3-10M | OU3-10M-M-092010 | 9/20/2010 | 0.74 | | 15 | | 3.5 | | 5.0 | |
| OU3-10M | 0U3-10M-M-031511 | 3/15/2011 | < 0.50 | | 7.9 | | 2.0 | J | 2.7 | J |
| OU3-10M | OU3-10M-M-091311 | 9/13/2011 | 0.58 | | 9.7 | | 2.5 | | 2.8 | |
| OU3-10M | OU3-10M-M-032012 | 3/20/2012 | 0.75 | | 9.8 | | 1.9 | | 2.1 | |
| OU3-10M | OU3-10M-M-091812 | 9/18/2012 | < 0.50 | | 7.6 | | 1.8 | | 2.1 | |
| OU3-10M | OU3-10M-M-091812 Q1 | 9/18/2012 | < 0.50 | | 7.0 | | 1.8 | | 1.8 | |
| OU3-10M | OU3-10M-M-031113 | 3/11/2013 | 7.2 | | < 0.50 | | 1.7 | | 2.2 | |
| OU3-10M2 | OU3-10M2-WG-325 | 4/16/2003 | 6.3 | | 150 | | 26 | | 41 | |
| OU3-10M2 | OU3-10M2-10252 | 6/5/2003 | 6.9 | | 180 | | 27 | | 46 | |
| OU3-10M2 | OU3-10M2-10364 | 9/8/2003 | 6.9 | | 220 | | 38 | | 45 | |
| OU3-10M2 | OU3-10M2-10428 | 12/1/2003 | 4.4 | | 140 | | 31 | | 31 | |
| OU3-10M2 | OU3-10M2-10488 | 3/2/2004 | 5.8 | U | 130 | U | 29 | | 41 | |
| OU3-10M2 | OU3-10M2-10586 | 9/2/2004 | 0.83 | J | 11 | | 3.9 | | 3.4 | |
| OU3-10M2 | OU3-10M2-10706 | 3/7/2005 | 8.3 | | 210 | | 40 | | 53 | |
| OU3-10M2 | OU3-10M2-10827 | 9/27/2005 | 6.2 | | 140 | | 32 | J+ | 43 | |
| OU3-10M2 | OU3-10M2-10945 | 3/10/2006 | 6.6 | J | 110 | D | 26 | D | 31 | J |
| OU3-10M2 | OU3-10M2-11073 | 9/8/2006 | 8 | | 180 | D | 37 | D | 38 | D |
| OU3-10M2 | OU3-10M2-11188 | 3/9/2007 | 6.4 | J+ | 110 | D | 23 | D | 25 | D |
| OU3-10M2 | OU3-10M2-11303 | 9/14/2007 | 5.9 | | 130 | D | 30 | D | 39 | D |
| OU3-10M2 | OU3-10M2-11418 | 3/19/2008 | 6 | J | 130 | D | 27 | D | 34 | D |
| OU3-10M2 | OU3-10M2-11532 | 9/23/2008 | 5.3 | | 120 | D | 24 | D | 36 | D |
| OU3-10M2 | OU3-10M2-11597 | 3/11/2009 | 1.5 | | 46 | D | 7.8 | J+ | 11 | J+ |
| OU3-10M2 | OU3-10M2-11674 | 9/29/2009 | 1.5 | | 35 | D | 7.3 | | 9.9 | |
| OU3-10M2 | OU3-10M2-M2-032210 | 3/22/2010 | 2.4 | | 65 | | 14 | | 18 | |
| OU3-10M2 | OU3-10M2-M-092010 | 9/20/2010 | 1.6 | | 38 | | 9.7 | | 13 | |
| OU3-10M2 | OU3-10M2-M-092010-Q1 | 9/20/2010 | 1.7 | | 38 | | 9.6 | | 13 | |
| OU3-10M2 | 0U3-10M2-M-031511 | 3/15/2011 | 1.5 | | 35 | | 7.5 | UJ | 11 | J |
| OU3-10M2 | OU3-10M2-M-091311 | 9/13/2011 | 1.9 | | 35 | | 6.9 | | 9.4 | |
| OU3-10M2 | OU3-10M2-M-091311-Q1 | 9/13/2011 | 1.8 | | 33 | | 6.5 | | 8.8 | |
| OU3-10M2 | OU3-10M2-M-032012 | 3/20/2012 | 1.5 | | 36 | | 7.0 | | 9.7 | |
| OU3-10M2 | OU3-10M2-M-032012-Q1 | 3/20/2012 | 1.5 | | 36 | | 7.5 | | 9.6 | |
| OU3-10M2 | OU3-10M2-M-091812 | 9/18/2012 | 1.2 | | 23 | | 5.3 | | 5.3 | |
| OU3-10M2 | OU3-10M2-M-031113 | 3/11/2013 | 36 | | 1.7 | | 7.3 | | 9.8 | |
| OU3-10S | OU3-10S-S-122010 | 12/20/2010 | < 0.50 | | 8.7 | | 2.0 | | 2.2 | |
| OU3-10S | OU3-10S-S-031511 | 3/15/2011 | < 0.50 | | 5.6 | | 1.4 | J | 1.4 | J |
| OU3-10S | OU3-10S-S-062011 | 6/20/2011 | 0.66 | | 10 | | 2.4 | | 2.0 | |
| OU3-10S | OU3-10S-S-062011-Q1 | 6/20/2011 | 0.67 | | 10 | | 2.1 | | 2.1 | |
| OU3-10S | OU3-10S-S-091311 | 9/13/2011 | < 0.50 | | 6.2 | | 1.6 | | 1.5 | |
| OU3-10S | OU3-10S-S-032012 | 3/20/2012 | 0.54 | | 6.4 | | 1.2 | | 1.4 | |
| OU3-10S | OU3-10S-S-091812 | 9/18/2012 | < 0.50 | | 4.2 | | 1.1 | | 1.2 | |
| OU3-10S | OU3-10S-S-031113 | 3/11/2013 | 3.8 | | < 0.50 | | 0.84 | | 1.1 | |
| OU3-10S | OU3-10S-S-031113-Q1 | 3/11/2013 | 4.1 | | < 0.50 | | 0.99 | | 1.0 | |
| OU3-11M | OU3-11M-WG-327 | 5/6/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-11M | OU3-11M-WG-328 | 5/6/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-11M | OU3-11M-10254 | 6/4/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-11M | OU3-11M-10366 | 9/9/2003 | < 1 | | 1.7 | | < 1 | | < 1 | |
| OU3-11M | OU3-11M-10367 | 9/9/2003 | < 1 | | 1.8 | | < 1 | | < 1 | |
| OU3-11M | OU3-11M-10430 | 12/4/2003 | 0.6 | J- | 5.1 | UJ | < 1 | UJ | < 1 | UJ |
| OU3-11M | OU3-11M-10490 | 3/10/2004 | 0.8 | J | 1.8 | | < 1 | | < 1 | |
| OU3-11M | OU3-11M-10588 | 9/9/2004 | 0.18 | U | 0.69 | U | 0.15 | J | < 0.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-11M | OU3-11M-10709 | 3/10/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M | OU3-11M-10829 | 9/23/2005 | 0.22 | J | 0.23 | J | < 0.5 | | < 0.5 | |
| OU3-11M | OU3-11M-10947 | 3/10/2006 | 0.37 | J | 0.34 | J | < 0.5 | | 0.12 | J |
| OU3-11M | OU3-11M-11075 | 9/6/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M | OU3-11M-11190 | 3/5/2007 | < 0.5 | | < 0.5 | | 0.32 | J+ | < 0.5 | |
| OU3-11M | OU3-11M-11305 | 9/7/2007 | < 0.5 | | < 0.5 | | 0.27 | J+ | < 0.5 | |
| OU3-11M | OU3-11M-11420 | 3/10/2008 | 0.14 | J | 0.14 | J | 0.19 | J | < 0.5 | |
| OU3-11M | OU3-11M-11534 | 9/15/2008 | 0.16 | J | 0.2 | J | 0.29 | J | < 0.5 | |
| OU3-11M | OU3-11M-11598 | 3/3/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M | OU3-11M-11675 | 9/21/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M | OU3-11M-M-031610 | 3/16/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-091410 | 9/14/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-030811 | 3/8/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-091411 | 9/14/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-032612 | 3/26/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-091212 | 9/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-030613 | 3/6/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M | OU3-11M-M-030613-Q1 | 3/6/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-WG-329 | 4/4/2003 | < 1 | | 0.9 | J | < 1 | | < 1 | |
| OU3-11M2 | OU3-11M2-10255 | 6/4/2003 | < 1 | | 0.6 | J | < 1 | | < 1 | |
| OU3-11M2 | OU3-11M2-10368 | 9/9/2003 | < 1 | | 1.2 | | < 1 | | < 1 | |
| OU3-11M2 | OU3-11M2-10431 | 12/4/2003 | 0.5 | J- | 3.1 | UJ | < 1 | UJ | < 1 | UJ |
| OU3-11M2 | OU3-11M2-10491 | 3/10/2004 | 0.9 | J | 2.5 | | < 1 | | < 1 | |
| OU3-11M2 | OU3-11M2-10589 | 9/9/2004 | 0.43 | U | 5.8 | | 1.3 | | 0.38 | J |
| OU3-11M2 | OU3-11M2-10710 | 3/10/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-10711 | 3/10/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-10830 | 9/26/2005 | 0.078 | J | 0.29 | J | 0.27 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-10831 | 9/26/2005 | 0.08 | J | 0.28 | J | 0.26 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-10948 | 3/10/2006 | < 0.5 | | 0.17 | J | < 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-10949 | 3/10/2006 | 0.13 | J | 0.28 | J | < 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-11076 | 9/6/2006 | < 0.5 | | < 0.5 | | 0.47 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-11077 | 9/6/2006 | < 0.5 | | < 0.5 | | 0.51 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-11191 | 3/5/2007 | < 0.5 | | 0.29 | J | 0.45 | J+ | < 0.5 | |
| OU3-11M2 | OU3-11M2-11192 | 3/5/2007 | < 0.5 | | 0.29 | J | 0.48 | J+ | < 0.5 | |
| OU3-11M2 | OU3-11M2-11306 | 9/7/2007 | < 0.5 | | 0.33 | J+ | 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-11307 | 9/7/2007 | < 0.5 | | 0.31 | J+ | 0.55 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-11421 | 3/10/2008 | < 0.5 | | 0.22 | J | 0.34 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-11422 | 3/10/2008 | 0.11 | J | 0.22 | J | 0.3 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-11535 | 9/15/2008 | 0.12 | J | 0.29 | J | 0.45 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-11536 | 9/15/2008 | 0.11 | J | 0.3 | J | 0.45 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-11599 | 3/3/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-11600 | 3/3/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11M2 | OU3-11M2-11676 | 9/21/2009 | < 0.5 | | < 0.5 | | 0.22 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-11677 | 9/21/2009 | < 0.5 | | < 0.5 | | 0.23 | J | < 0.5 | |
| OU3-11M2 | OU3-11M2-M2-031610 | 3/16/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-M-091410 | 9/14/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-M2-030811 | 3/8/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-M-091411 | 9/14/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-M-032612 | 3/26/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-M-091212 | 9/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11M2 | OU3-11M2-M-030613 | 3/6/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-WG-326 | 4/3/2003 | 1.8 | | < 1 | | < 1 | | < 1 | |
| OU3-11S | OU3-11S-10253 | 6/2/2003 | 1 | | < 1 | | < 1 | | < 1 | |
| OU3-11S | OU3-11S-10365 | 9/7/2003 | 2.4 | | 15 | | 0.8 | J | < 1 | |
| OU3-11S | OU3-11S-10429 | 12/4/2003 | 1.4 | J- | 5.1 | UJ | < 1 | UJ | < 1 | UJ |
| OU3-11S | OU3-11S-10489 | 3/10/2004 | 1.4 | | 2.6 | | < 1 | | < 1 | |
| OU3-11S | OU3-11S-10587 | 9/9/2004 | 1.5 | J | 0.28 | UJ | < 0.5 | UJ | 0.22 | J |
| OU3-11S | OU3-11S-10708 | 3/10/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-10828 | 9/23/2005 | 1.6 | | 0.73 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-10946 | 3/10/2006 | 3.2 | | 0.65 | | < 0.5 | | 0.29 | J |
| OU3-11S | OU3-11S-11074 | 9/6/2006 | 2.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-11189 | 3/5/2007 | 1.6 | J+ | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-11304 | 9/7/2007 | 1.7 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-11419 | 3/10/2008 | 1.1 | | 0.11 | J | 0.11 | J | < 0.5 | |
| OU3-11S | OU3-11S-11533 | 9/15/2008 | 1.4 | | 0.18 | J | 0.13 | J | 0.13 | J |
| OU3-11S | OU3-11S-11601 | 3/3/2009 | 0.45 | J | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-11678 | 9/21/2009 | 0.88 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-11S | OU3-11S-S-031610 | 3/16/2010 | 1.0 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-S-091410 | 9/14/2010 | 1.4 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-S-030811 | 3/8/2011 | 1.6 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-S-091411 | 9/14/2011 | 1.0 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-S-032612 | 3/26/2012 | 0.79 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-S-091212 | 9/12/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-11S | OU3-11S-S-030613 | 3/6/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-12D | OU3-12D-WG-331 | 5/5/2003 | < 1 | | 4.7 | J | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10257 | 6/4/2003 | < 1 | | 4.3 | | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10258 | 6/4/2003 | < 1 | | 4.4 | | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10370 | 9/8/2003 | < 1 | | 6.4 | | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10433 | 12/2/2003 | 0.5 | J | 5.4 | | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10434 | 12/2/2003 | 0.5 | J | 5.5 | | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10494 | 3/8/2004 | 0.8 | J | 4.3 | U | < 1 | | < 1 | |
| OU3-12D | OU3-12D-10592 | 9/3/2004 | < 0.5 | | 0.84 | | 0.12 | J | < 0.5 | |
| OU3-12D | OU3-12D-10714 | 3/15/2005 | < 0.5 | | 1 | | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-10833 | 9/26/2005 | < 0.5 | | 0.51 | | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11038 | 3/27/2006 | < 0.5 | | 0.88 | J | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11079 | 9/12/2006 | < 0.5 | | 0.61 | | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11194 | 3/6/2007 | < 0.5 | | 0.45 | J | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11309 | 9/6/2007 | < 0.5 | | 0.57 | | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11424 | 3/14/2008 | < 0.5 | | 0.26 | J | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11538 | 9/15/2008 | < 0.5 | | 0.25 | J | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11602 | 3/11/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-11679 | 9/24/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-12D | OU3-12D-D-031810 | 3/18/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12D | OU3-12D-O-091510 | 9/15/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12D | OU3-12D-D-030911 | 3/9/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12D | OU3-12D-D-090911 | 9/9/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12D | OU3-12D-D-031612 | 3/16/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12D | OU3-12D-D-091312 | 9/13/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12D | OU3-12D-D-030613 | 3/6/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-12M | OU3-12M-WG-330 | 5/5/2003 | 4.6 | | 140 | | 23 | | 28 | |
| OU3-12M | OU3-12M-10256 | 6/2/2003 | 0.9 | J | 34 | | 6.1 | | 9 | |
| OU3-12M | OU3-12M-10369 | 9/8/2003 | 3.5 | | 120 | | 23 | | 31 | |
| OU3-12M | OU3-12M-10432 | 12/2/2003 | 2.6 | | 75 | | 20 | | 32 | |
| OU3-12M | OU3-12M-10492 | 3/8/2004 | 3.1 | | 69 | | 14 | | 24 | |
| OU3-12M | OU3-12M-10493 | 3/8/2004 | 3.1 | | 68 | | 16 | | 23 | |
| OU3-12M | OU3-12M-10590 | 9/3/2004 | 1.5 | | 30 | | 8.3 | | 15 | |
| OU3-12M | OU3-12M-10591 | 9/3/2004 | 1.5 | | 31 | | 8.4 | | 15 | |
| OU3-12M | OU3-12M-10712 | 3/15/2005 | 2.4 | | 72 | | 15 | | 26 | |
| OU3-12M | OU3-12M-10832 | 9/22/2005 | 1.1 | | 15 | | 4.3 | J+ | 10 | |
| OU3-12M | OU3-12M-11037 | 3/27/2006 | 1.2 | J | 13 | J | 3.4 | J | 9.1 | J |
| OU3-12M | OU3-12M-11078 | 9/12/2006 | 1.3 | | 16 | J+ | 4.1 | J+ | 12 | |
| OU3-12M | OU3-12M-11193 | 3/6/2007 | 0.88 | J+ | 9.8 | J | 2.4 | J+ | 7.5 | J |
| OU3-12M | OU3-12M-11308 | 9/6/2007 | 0.76 | | 7.7 | | 1.9 | J+ | 8.2 | |
| OU3-12M | OU3-12M-11423 | 3/14/2008 | 0.72 | | 7.1 | | 1.7 | J | 5.4 | J |
| OU3-12M | OU3-12M-11537 | 9/15/2008 | 0.73 | | 4.7 | | 1.1 | | 3 | |
| OU3-12M | OU3-12M-11603 | 3/11/2009 | 0.21 | J | 1.6 | | 0.34 | J | 1.2 | |
| OU3-12M | OU3-12M-11680 | 9/24/2009 | 0.26 | J | 1.7 | | 0.42 | J | 1.3 | |
| OU3-12M | OU3-12M-M-031810 | 3/18/2010 | < 0.50 | | 2.7 | | 0.78 | | 2.1 | |
| OU3-12M | OU3-12M-M-091510 | 9/15/2010 | < 0.50 | | 1.8 | | 0.53 | | 1.3 | |
| OU3-12M | OU3-12M-M-030911 | 3/9/2011 | < 0.50 | | 1.8 | | < 0.50 | | 0.94 | |
| OU3-12M | OU3-12M-M-090911 | 9/9/2011 | < 0.50 | | 1.6 | | < 0.50 | | 1.1 | |
| OU3-12M | OU3-12M-M-031612 | 3/16/2012 | < 0.50 | | 1.3 | | < 0.50 | | 0.76 | |
| OU3-12M | OU3-12M-M-091412 | 9/14/2012 | < 0.50 | | 1.4 | | < 0.50 | | 0.77 | |
| OU3-12M | OU3-12M-M-030613 | 3/6/2013 | 1.5 | | < 0.50 | | < 0.50 | | 0.86 | |
| OU3-13D | OU3-13D-WG-333 | 5/22/2003 | < 1 | | 2 | | < 1 | | < 1 | |
| OU3-13D | OU3-13D-10260 | 6/5/2003 | < 1 | | 1.1 | | < 1 | | < 1 | |
| OU3-13D | OU3-13D-10372 | 9/9/2003 | < 1 | | 2.1 | | < 1 | | < 1 | |
| OU3-13D | OU3-13D-10436 | 12/2/2003 | 0.5 | J | 5.3 | | < 1 | | 0.8 | J |
| OU3-13D | OU3-13D-10496 | 3/8/2004 | 1 | | 3.5 | U | < 1 | | < 1 | |
| OU3-13D | OU3-13D-10594 | 9/7/2004 | 0.11 | J | 1.1 | | 0.38 | J | < 0.5 | |
| OU3-13D | OU3-13D-10718 | 3/10/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-10835 | 9/28/2005 | < 0.5 | | 0.047 | J | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-10953 | 3/8/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11081 | 9/12/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11196 | 3/6/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11311 | 9/13/2007 | < 0.5 | | 0.25 | U | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11426 | 3/12/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11540 | 9/22/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11604 | 3/10/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-11681 | 9/21/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-13D | OU3-13D-D-032510 | 3/25/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-13D | OU3-13D-D-092310 | 9/23/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-13D | OU3-13D-D-031711 | 3/17/2011 | < 0.50 | | < 0.50 | | < 0.50 | UJ | < 0.50 | |
| OU3-13D | OU3-13D-D-091511 | 9/15/2011 | < 0.50 | UJ | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-13D | OU3-13D-D-032312 | 3/23/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-13D | OU3-13D-D-092012 | 9/20/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-13D | OU3-13D-D031413 | 3/14/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-13M | OU3-13M-WG-332 | 5/22/2003 | 1.1 | | 160 | | 7.2 | | < 1 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-13M | OU3-13M-10259 | 6/3/2003 | 1.2 | | 130 | | 6.9 | | < 1 | |
| OU3-13M | OU3-13M-10371 | 9/8/2003 | 1.6 | | 150 | | 8.7 | | 0.7 | J |
| OU3-13M | OU3-13M-10435 | 12/2/2003 | 1.2 | | 68 | | 6.3 | | 0.6 | J |
| OU3-13M | OU3-13M-10495 | 3/8/2004 | 1.8 | | 93 | | 6.6 | | < 1 | |
| OU3-13M | OU3-13M-10593 | 9/7/2004 | 0.73 | | 50 | | 4.8 | | 0.42 | J |
| OU3-13M | OU3-13M-10716 | 3/10/2005 | 1 | | 79 | | 5 | | < 0.5 | |
| OU3-13M | OU3-13M-10834 | 9/25/2005 | 1.1 | | 68 | | 5 | | < 0.5 | |
| OU3-13M | OU3-13M-10952 | 3/8/2006 | 1.2 | | 54 | D | 5.7 | | 0.27 | J |
| OU3-13M | OU3-13M-11080 | 9/12/2006 | 1 | | 73 | D | 5.6 | | < 0.5 | |
| OU3-13M | OU3-13M-11195 | 3/6/2007 | 1 | J+ | 54 | D | 4.5 | J+ | 0.33 | J+ |
| OU3-13M | OU3-13M-11310 | 9/13/2007 | 0.98 | | 59 | D | 5.5 | | 0.31 | J |
| OU3-13M | OU3-13M-11425 | 3/12/2008 | 0.83 | | 53 | D | 4.1 | | < 0.5 | |
| OU3-13M | OU3-13M-11539 | 9/22/2008 | 1.1 | | 60 | D | 4.6 | | 0.24 | J |
| OU3-13M | OU3-13M-11605 | 3/10/2009 | 0.33 | J | 26 | D | 1.7 | J+ | < 0.5 | |
| OU3-13M | OU3-13M-11682 | 9/21/2009 | 0.54 | | 47 | D | 2.4 | | < 0.5 | |
| OU3-13M | OU3-13M-M-032510 | 3/25/2010 | 1.1 | | 51 | | 4.3 | | < 0.50 | |
| OU3-13M | OU3-13M-M-092310 | 9/23/2010 | 0.59 | | 36 | | 3.2 | | < 0.50 | |
| OU3-13M | OU3-13M-M-031711 | 3/17/2011 | < 0.50 | | 25 | | 2.4 | J | < 0.50 | |
| OU3-13M | OU3-13M-M-031711-Q1 | 3/17/2011 | 0.55 | | 24 | | 2.4 | J | < 0.50 | |
| OU3-13M | OU3-13M-M-091511 | 9/15/2011 | 0.57 | J | 25 | | 2.4 | | < 0.50 | |
| OU3-13M | OU3-13M-M-032312 | 3/23/2012 | 0.56 | | 20 | | 1.7 | | < 0.50 | |
| OU3-13M | OU3-13M-M-092012 | 9/20/2012 | < 0.50 | | 21 | | 2.4 | | 0.57 | |
| OU3-13M | OU3-13M-M-031413 | 3/14/2013 | 22 | | < 0.50 | | 2.1 | | < 0.50 | |
| OU3-13M | OU3-13M-M-031413-Q1 | 3/14/2013 | 22 | | 0.50 | | 2.1 | | < 0.50 | |
| OU3-14D | OU3-14D-WG-335 | 3/13/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-14D | OU3-14D-10262 | 6/4/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-14D | OU3-14D-10374 | 9/9/2003 | < 1 | | 2.5 | | < 1 | | < 1 | |
| OU3-14D | OU3-14D-10438 | 12/3/2003 | 1.1 | | 22 | U | 1.7 | U | 0.6 | J |
| OU3-14D | OU3-14D-10498 | 3/9/2004 | 1.2 | U | 6.5 | U | < 1 | | 0.6 | UJ |
| OU3-14D | OU3-14D-10596 | 9/7/2004 | < 0.5 | | 1.4 | | 0.12 | J | < 0.5 | |
| OU3-14D | OU3-14D-10720 | 3/8/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | UJ |
| OU3-14D | OU3-14D-10837 | 9/26/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-10955 | 3/8/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11083 | 9/11/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11198 | 3/7/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11313 | 9/6/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11428 | 3/10/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11542 | 9/16/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11606 | 3/6/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-11683 | 9/25/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14D | OU3-14D-D-031710 | 3/17/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14D | OU3-14D-D-091510 | 9/15/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14D | OU3-14D-D-030911 | 3/9/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14D | OU3-14D-D-090811 | 9/8/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14D | OU3-14D-D-031512 | 3/15/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14D | OU3-14D-D-091312 | 9/13/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14D | OU3-14D-D-031313 | 3/13/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-WG-334 | 3/14/2003 | < 1 | | 2.3 | | < 1 | | < 1 | |
| OU3-14M | OU3-14M-10261 | 6/2/2003 | < 1 | | 0.8 | J | < 1 | | < 1 | |
| OU3-14M | OU3-14M-10373 | 9/9/2003 | < 1 | | 1.7 | | < 1 | | < 1 | |
| OU3-14M | OU3-14M-10437 | 12/3/2003 | 1.3 | | 19 | U | 1.1 | U | < 1 | |
| OU3-14M | OU3-14M-10497 | 3/8/2004 | 1.3 | | 7.7 | U | < 1 | | < 1 | |
| OU3-14M | OU3-14M-10595 | 9/7/2004 | 0.28 | J | 10 | | 2.1 | | 0.32 | J |
| OU3-14M | OU3-14M-10719 | 3/11/2005 | 0.82 | | 0.28 | J | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-10836 | 9/23/2005 | 0.84 | | 0.38 | J | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-10954 | 3/8/2006 | 1 | | 0.73 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11082 | 9/11/2006 | 0.93 | | 0.65 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11197 | 3/7/2007 | 0.76 | J+ | 0.27 | J+ | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11312 | 9/6/2007 | 0.81 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11427 | 3/10/2008 | 0.72 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11541 | 9/16/2008 | 0.86 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11607 | 3/6/2009 | 0.22 | J | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-11684 | 9/25/2009 | 0.36 | J | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-14M | OU3-14M-M-031710 | 3/17/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-M-091510 | 9/15/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-M-030911 | 3/9/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-M-090811 | 9/8/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-M-031512 | 3/15/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-M-091312 | 9/13/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-14M | OU3-14M-M-031313 | 3/13/2013 | 1.4 | | 0.54 | | < 0.50 | | < 0.50 | |
| OU3-16M | OU3-16M-170 | 10/15/2010 | 4.1 | | 91 | | 21 | | 11 | |
| OU3-16M | OU3-16M-190 | 10/15/2010 | 2.5 | | 64 | | 16 | | 7.6 | |
| OU3-16M | OU3-16M-205 | 10/15/2010 | 2.3 | | 62 | | 14 | | 6.7 | |
| OU3-16M | OU3-16M-M-122010 | 12/20/2010 | 4.6 | | 100 | | 21 | | 11 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-16M | OU3-16M-M-032111 | 3/21/2011 | 4.0 | | 91 | | 18 | J | 11 | |
| OU3-16M | OU3-16M-M-032111-Q1 | 3/21/2011 | 3.9 | | 91 | | 17 | J | 9.6 | |
| OU3-16M | OU3-16M-M-062011 | 6/20/2011 | 4.7 | | 110 | | 22 | | 14 | |
| OU3-16M | OU3-16M-M-091911 | 9/19/2011 | 4.4 | | 120 | | 20 | | 13 | |
| OU3-16M | OU3-16M-M-032012 | 3/20/2012 | 4.0 | | 100 | | 18 | | 12 | |
| OU3-16M | OU3-16M-M-032012-Q1 | 3/20/2012 | 4.0 | | 99 | | 18 | | 12 | |
| OU3-16M | OU3-16M-M-091812 | 9/18/2012 | 2.4 | | 61 | | 14 | | 5.0 | |
| OU3-16M | OU3-16M-M-031113-MS/MSD | 3/11/2013 | 92 | | 4.2 | | 15 | | 10 | |
| OU3-16S | OU3-16S-S-122010 | 12/20/2010 | 2.3 | | 48 | | 11 | | 7.2 | |
| OU3-16S | OU3-16S-S-032111 | 3/21/2011 | 1.8 | | 36 | | 8.6 | J | 5.4 | |
| OU3-16S | OU3-16S-S-062011 | 6/20/2011 | 2.5 | | 44 | | 10 | | 6.4 | |
| OU3-16S | OU3-16S-S-091911 | 9/19/2011 | 1.3 | | 39 | | 8.9 | | 5.5 | |
| OU3-16S | OU3-16S-S-032012 | 3/20/2012 | 1.8 | | 37 | | 6.9 | | 4.1 | |
| OU3-16S | OU3-16S-S-091812 | 9/18/2012 | 1.3 | | 27 | | 7.2 | | 4.0 | |
| OU3-16S | OU3-16S-S-091812 Q1 | 9/18/2012 | 1.1 | | 26 | | 6.7 | | 3.4 | |
| OU3-16S | OU3-16S-S-031113 | 3/11/2013 | 26 | | 1.2 | | 5.2 | | 4.3 | |
| OU3-16S | OU3-16S-S-031113-Q1 | 3/11/2013 | 32 | | 1.5 | | 7.2 | | 5.4 | |
| OU3-17S | OU3-17S-S-122010 | 12/20/2010 | < 0.50 | | 1.4 | | < 0.50 | | < 0.50 | |
| OU3-17S | OU3-17S-S-032111 | 3/21/2011 | < 0.50 | | 1.3 | | < 0.50 | UJ | < 0.50 | |
| OU3-17S | OU3-17S-S-062011 | 6/20/2011 | < 0.50 | | 0.99 | | < 0.50 | | < 0.50 | |
| OU3-17S | OU3-17S-S-091911 | 9/19/2011 | < 0.50 | | 2.9 | | < 0.50 | | < 0.50 | |
| OU3-17S | OU3-17S-S-091911-Q1 | 9/19/2011 | < 0.50 | | 2.8 | | < 0.50 | | < 0.50 | |
| OU3-17S | OU3-17S-S-032312 | 3/23/2012 | < 0.50 | | 2.5 | | < 0.50 | | < 0.50 | |
| OU3-17S | OU3-17S-S-091712 | 9/17/2012 | < 0.50 | | 0.62 | | < 0.50 | | < 0.50 | |
| OU3-17S | OU3-17S-S-030713 | 3/7/2013 | 0.63 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-19M | OU3-19M-160 | 11/4/2010 | 3.2 | | 74 | | 16 | | 16 | |
| OU3-19M | OU3-19M-180 | 11/5/2010 | 2.2 | | 52 | | 8.6 | | 9.9 | |
| OU3-19M | OU3-19M-200 | 11/5/2010 | 1.5 | | 41 | | 8.1 | | 6.8 | |
| OU3-19M | OU3-19M-M122110 | 12/21/2010 | 3.3 | | 80 | | 21 | | 12 | |
| OU3-19M | OU3-19M-M122110-Q1 | 12/21/2010 | 3.2 | | 77 | | 20 | | 12 | |
| OU3-19M | OU3-19M-M-032211 | 3/22/2011 | 2.5 | | 59 | | 13 | | 9.6 | |
| OU3-19M | OU3-19M-M-062111 | 6/21/2011 | 3.5 | | 73 | | 18 | | 13 | |
| OU3-19M | OU3-19M-M-091911 | 9/19/2011 | 2.8 | | 66 | | 15 | | 12 | |
| OU3-19M | OU3-19M-M-032312 | 3/23/2012 | 2.4 | | 59 | | 11 | | 7.5 | |
| OU3-19M | OU3-19M-M-092012-MS/MSD | 9/20/2012 | 2.1 | | 49 | | 12 | | 10 | |
| OU3-19M | OU3-19M-M-031313 | 3/13/2013 | 50 | | 2.1 | | 11 | | 10 | |
| OU3-1D | OU3-1D-10019 | 6/27/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-1D | OU3-1D-10074 | 9/11/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-1D | OU3-1D-10140 | 12/19/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-1D | OU3-1D-10215 | 3/5/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-1D | OU3-1D-10359 | 9/6/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-1D | OU3-1D-10481 | 3/11/2004 | 0.6 | UJ | 1.1 | U | < 1 | | < 1 | |
| OU3-1D | OU3-1D-10579 | 9/14/2004 | 0.11 | J | 0.63 | J | 0.11 | J | < 0.5 | |
| OU3-1D | OU3-1D-10698 | 3/11/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-10820 | 9/26/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-10938 | 3/6/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11066 | 9/7/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11181 | 3/8/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11296 | 9/11/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11411 | 3/18/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11526 | 9/18/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11608 | 3/10/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-11685 | 9/25/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-1D | OU3-1D-D-031710 | 3/17/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1D | OU3-1D-D-092210 | 9/22/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1D | OU3-1D-D-031011 | 3/10/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1D | OU3-1D-D-091211 | 9/12/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1D | OU3-1D-D-032712 | 3/27/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1D | OU3-1D-D-092012 | 9/20/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1D | OU3-1D-D031413 | 3/14/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-1M | OU3-1M-10020 | 6/27/2002 | 1 | | 49 | | 7 | | < 1 | |
| OU3-1M | OU3-1M-10075 | 9/11/2002 | 1 | | 22 | | 4 | | < 1 | |
| OU3-1M | OU3-1M-10141 | 12/18/2002 | 0.9 | J | 25 | | 3 | | < 1 | |
| OU3-1M | OU3-1M-10216 | 3/5/2003 | 0.9 | J | 25 | | 3 | | < 1 | |
| OU3-1M | OU3-1M-10360 | 9/6/2003 | < 1 | | 11 | U | 1.4 | U | < 1 | |
| OU3-1M | OU3-1M-10482 | 3/11/2004 | 0.9 | UJ | 12 | | 1.7 | | < 1 | |
| OU3-1M | OU3-1M-10483 | 3/11/2004 | 0.9 | UJ | 12 | | 1.8 | | < 1 | |
| OU3-1M | OU3-1M-10580 | 9/14/2004 | 0.23 | J | 5.3 | J | 0.41 | J | 0.1 | J |
| OU3-1M | OU3-1M-10581 | 9/14/2004 | 0.28 | J | 5.5 | J | 0.41 | J | < 0.5 | |
| OU3-1M | OU3-1M-10699 | 3/11/2005 | 0.82 | | 11 | | 1.2 | | < 0.5 | |
| OU3-1M | OU3-1M-10700 | 3/11/2005 | 0.85 | | 9.3 | | 1.2 | | < 0.5 | |
| OU3-1M | OU3-1M-10821 | 9/22/2005 | 0.82 | | 7.4 | | 1 | | < 0.5 | |
| OU3-1M | OU3-1M-10822 | 9/22/2005 | 0.9 | | 7.8 | | 1.1 | | 0.065 | J |
| OU3-1M | OU3-1M-10940 | 3/6/2006 | 0.95 | | 8.6 | | < 0.5 | | < 0.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-1M | OU3-1M-10939 | 3/6/2006 | 0.93 | J | 7.9 | J | 1.3 | J | < 0.5 | |
| OU3-1M | OU3-1M-11067 | 9/7/2006 | 0.86 | | 6.9 | | 0.94 | | < 0.5 | |
| OU3-1M | OU3-1M-11068 | 9/7/2006 | 0.83 | | 7 | | 0.99 | | < 0.5 | |
| OU3-1M | OU3-1M-11183 | 3/8/2007 | 0.7 | | 5.2 | | 0.74 | | < 0.5 | |
| OU3-1M | OU3-1M-11182 | 3/8/2007 | 0.7 | | 5.3 | | 0.74 | | < 0.5 | |
| OU3-1M | OU3-1M-11297 | 9/11/2007 | 0.75 | | 4.8 | | 0.75 | | < 0.5 | |
| OU3-1M | OU3-1M-11298 | 9/11/2007 | 0.74 | | 5 | | 0.76 | | < 0.5 | |
| OU3-1M | OU3-1M-11412 | 3/18/2008 | 0.8 | J | 4.2 | | 0.44 | J | < 0.5 | |
| OU3-1M | OU3-1M-11413 | 3/18/2008 | 0.76 | J | 4.1 | | 0.49 | J | < 0.5 | |
| OU3-1M | OU3-1M-11527 | 9/18/2008 | 0.61 | | 3.3 | | 0.46 | J | < 0.5 | |
| OU3-1M | OU3-1M-11528 | 9/18/2008 | 0.64 | | 3.4 | | 0.44 | J | < 0.5 | |
| OU3-1M | OU3-1M-11609 | 3/10/2009 | < 0.5 | | 1.7 | | 0.21 | J+ | < 0.5 | |
| OU3-1M | OU3-1M-11610 | 3/10/2009 | 0.24 | J | 1.8 | | 0.26 | J | < 0.5 | |
| OU3-1M | OU3-1M-11686 | 9/25/2009 | 0.23 | J | 2.1 | | 0.26 | J | < 0.5 | |
| OU3-1M | OU3-1M-11687 | 9/25/2009 | 0.31 | J | 2 | | 0.29 | J | < 0.5 | |
| OU3-1M | OU3-1M-M-031710 | 3/17/2010 | < 0.50 | | 3.3 | | < 0.50 | | < 0.50 | |
| OU3-1M | OU3-1M-M-092210 | 9/22/2010 | < 0.50 | | 4.7 | | 0.63 | | < 0.50 | |
| OU3-1M | OU3-1M-M-031011 | 3/10/2011 | < 0.50 | | 6.0 | | 0.88 | | < 0.50 | |
| OU3-1M | OU3-1M-M-091211 | 9/12/2011 | < 0.50 | | 4.9 | | 0.70 | J | < 0.50 | |
| OU3-1M | OU3-1M-M-032712 | 3/27/2012 | < 0.50 | | 3.3 | | < 0.50 | | < 0.50 | |
| OU3-1M | OU3-1M-M-092012 | 9/20/2012 | < 0.50 | | 2.8 | | < 0.50 | | < 0.50 | |
| OU3-1M | OU3-1M-M-031313 | 3/13/2013 | 2.3 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-160 | 11/16/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-180 | 11/17/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-200 | 11/17/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-M-122010 | 12/20/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-M-032111 | 3/21/2011 | < 0.50 | | < 0.50 | | < 0.50 | UJ | < 0.50 | |
| OU3-20M | OU3-20M-M-062111 | 6/21/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-M-092011 | 9/20/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-M-032212 | 3/22/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-M-092112 | 9/21/2012 | < 0.50 | | 0.64 | | < 0.50 | | < 0.50 | |
| OU3-20M | OU3-20M-M-031413 | 3/14/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20S | OU3-20S-S-122010 | 12/20/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20S | OU3-20S-S-032111 | 3/21/2011 | < 0.50 | | < 0.50 | | < 0.50 | UJ | < 0.50 | |
| OU3-20S | OU3-20S-S-062111 | 6/21/2011 | < 0.50 | | 0.58 | | < 0.50 | | < 0.50 | |
| OU3-20S | OU3-20S-S-092011 | 9/20/2011 | < 0.50 | | 1.6 | | < 0.50 | | < 0.50 | |
| OU3-20S | OU3-20S-S-041012 | 4/10/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-20S | OU3-20S-S-092112 | 9/21/2012 | < 0.50 | | 1.2 | | < 0.50 | | < 0.50 | |
| OU3-20S | OU3-20S-S-031413-MS/MSD | 3/14/2013 | 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-2M | OU3-2M-10029 | 6/27/2002 | 19 | | 760 | | 130 | | 16 | |
| OU3-2M | OU3-2M-10083 | 9/12/2002 | 19 | | 390 | | 100 | | 12 | |
| OU3-2M | OU3-2M-10150 | 12/18/2002 | 18 | | 570 | | 80 | | 10 | |
| OU3-2M | OU3-2M-10212 | 3/5/2003 | 19 | | 540 | | 80 | | 9 | |
| OU3-2M | OU3-2M-10358 | 9/7/2003 | 15 | | 440 | | 89 | | 9 | |
| OU3-2M | OU3-2M-10480 | 3/2/2004 | 12 | U | 350 | | 82 | | 11 | |
| OU3-2M | OU3-2M-10578 | 9/2/2004 | 3.9 | J | 86 | | 25 | | < 4.2 | |
| OU3-2M | OU3-2M-10696 | 3/7/2005 | 13 | | 220 | | 69 | | 12 | |
| OU3-2M | OU3-2M-10819 | 9/21/2005 | 7 | | 220 | | 48 | | 17 | |
| OU3-2M | OU3-2M-10937 | 3/7/2006 | 11 | J | 160 | D | 42 | D | 12 | D |
| OU3-2M | OU3-2M-11065 | 9/14/2006 | 9.1 | | 210 | D | 48 | D | 26 | D |
| OU3-2M | OU3-2M-11180 | 3/13/2007 | 6.8 | J+ | 190 | D | 46 | D | 16 | J+ |
| OU3-2M | OU3-2M-11295 | 9/12/2007 | 6.3 | | 180 | D | 38 | D | 27 | D |
| OU3-2M | OU3-2M-11410 | 3/18/2008 | 6.3 | | 140 | D | 26 | D | 16 | J+ |
| OU3-2M | OU3-2M-11525 | 9/22/2008 | 5.2 | | 99 | D | 20 | D | 15 | J+ |
| OU3-2M | OU3-2M-11611 | 3/12/2009 | 1.5 | | 41 | D | 7.1 | J+ | 5.9 | J+ |
| OU3-2M | OU3-2M-11688 | 9/22/2009 | 1.3 | | 44 | D | 6.2 | | 5.6 | |
| OU3-2M | OU3-2M-11689 | 9/22/2009 | 1.4 | | 44 | D | 6.3 | J | 5.8 | J |
| OU3-2M | OU3-25M-M-032310 | 3/23/2010 | 2.0 | | 51 | | 11 | | 8.5 | |
| OU3-2M | OU3-2M-M-032310 | 3/23/2010 | 2.1 | | 52 | | 12 | | 8.7 | |
| OU3-2M | OU3-2M-M-091610 | 9/16/2010 | 1.5 | | 39 | | 8.3 | | 7.9 | |
| OU3-2M | OU3-2M-M-031411 | 3/14/2011 | 1.4 | | 31 | | 6.8 | | 7.4 | |
| OU3-2M | OU3-2M-M-091511 | 9/15/2011 | 1.1 | J | 26 | | 5.5 | | 5.6 | |
| OU3-2M | OU3-2M-M-041012 | 4/10/2012 | 1.1 | | 26 | | 6.0 | | 6.4 | |
| OU3-2M | OU3-2M-M-D-092112 MS/MSD | 9/21/2012 | 1.1 | | 24 | | 6.0 | | 4.8 | |
| OU3-2M | OU3-2M-M-031513-MS/MSD | 3/15/2013 | 25 | | 1.2 | | 4.9 | | 4.6 | |
| OU3-4S | OU3-4S-10008 | 6/24/2002 | 3 | | < 1 | | < 1 | | < 1 | |
| OU3-4S | OU3-4S-10064 | 9/9/2002 | 3 | | < 1 | | < 1 | | < 1 | |
| OU3-4S | OU3-4S-10129 | 12/17/2002 | 4 | | 0.6 | J | < 1 | | < 1 | |
| OU3-4S | OU3-4S-10197 | 3/3/2003 | 4 | | 0.7 | J | < 1 | | < 1 | |
| OU3-4S | OU3-4S-10342 | 9/4/2003 | 2.5 | U | 0.6 | J | < 1 | | < 1 | |
| OU3-4S | OU3-4S-10465 | 3/4/2004 | 4 | | 21 | | 1.1 | | < 1 | |
| OU3-4S | OU3-4S-10563 | 9/3/2004 | 2.7 | | 0.82 | | 0.25 | J | < 0.5 | |
| OU3-4S | OU3-4S-10680 | 3/15/2005 | 3.7 | | 0.76 | | 0.14 | J | < 0.5 | |
| OU3-4S | OU3-4S-10804 | 9/20/2005 | 2.7 | | 0.66 | | < 0.5 | | < 0.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-4S | OU3-4S-10922 | 3/8/2006 | 5.1 | | 1.6 | | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11050 | 9/11/2006 | 5.6 | | 1 | | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11166 | 3/5/2007 | 4.5 | J+ | 0.57 | J | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11281 | 9/7/2007 | 4.6 | | 0.58 | | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11396 | 3/12/2008 | 4.5 | | 0.35 | J | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11511 | 9/16/2008 | 5 | | 0.33 | J | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11612 | 3/5/2009 | 1.8 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-11690 | 9/23/2009 | 2.2 | | 0.27 | J | < 0.5 | | < 0.5 | |
| OU3-4S | OU3-4S-S-031610 | 3/16/2010 | 2.8 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-4S | OU3-4S-S-091410 | 9/14/2010 | 3.0 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-4S | OU3-4S-S-030811 | 3/8/2011 | 3.3 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-4S | OU3-4S-S-090811 | 9/8/2011 | 2.5 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-4S | OU3-4S-S-031512 | 3/15/2012 | 2.9 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-4S | OU3-4S-S-091212 | 9/12/2012 | 2.8 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-4S | OU3-4S-S-030713 | 3/7/2013 | < 0.50 | | 2.5 | | < 0.50 | | < 0.50 | |
| OU3-5DR | OU3-5DR-10286 | 7/9/2003 | < 2 | | < 2 | | < 2 | | < 5 | |
| OU3-5DR | OU3-5DR-10287 | 7/9/2003 | < 2 | | < 2 | | < 2 | | < 5 | |
| OU3-5DR | OU3-5DR-10325 | 8/12/2003 | < 2 | | < 2 | | < 2 | | < 5 | |
| OU3-5DR | OU3-5DR-10326 | 8/12/2003 | < 2 | | < 2 | | < 2 | | < 5 | |
| OU3-5DR | OU3-5DR-10425 | 12/3/2003 | < 1 | | 4.6 | U | < 1 | | < 1 | |
| OU3-5DR | OU3-5DR-10502 | 3/4/2004 | 1 | | 3 | U | < 1 | | < 1 | |
| OU3-5DR | OU3-5DR-10601 | 9/8/2004 | 0.32 | J | 1.1 | | 0.22 | J | 0.21 | J |
| OU3-5DR | OU3-5DR-10725 | 3/9/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-10842 | 9/29/2005 | < 0.5 | | 0.66 | | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-10960 | 3/2/2006 | < 0.5 | | 0.52 | | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11088 | 9/9/2006 | < 0.5 | | 0.67 | | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11203 | 3/10/2007 | < 0.5 | | 0.61 | U | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11318 | 9/13/2007 | < 0.5 | | 0.56 | U | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11433 | 3/17/2008 | < 0.5 | | 0.27 | J | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11547 | 9/19/2008 | < 0.5 | | 0.39 | J | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11613 | 3/9/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-11691 | 9/28/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-5DR | OU3-5DR-D-032410 | 3/24/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-5DR | OU3-5DR-D-092110 | 9/21/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-5DR | OU3-5DR-D-031611 | 3/16/2011 | < 0.50 | | < 0.50 | | < 0.50 | UJ | < 0.50 | UJ |
| OU3-5DR | OU3-5DR-D-091411 | 9/14/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-5DR | OU3-5DR-D-032112 | 3/21/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-5DR | OU3-5DR-D-091912 | 9/19/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-5DR | OU3-5DR-D-031213 | 3/12/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-5M2 | OU3-5M2-WG-336 | 5/23/2003 | 8.3 | | 280 | | 36 | | 6.4 | |
| OU3-5M2 | OU3-5M2-10247 | 6/6/2003 | 9.5 | | 280 | | 31 | | 6.6 | |
| OU3-5M2 | OU3-5M2-10322 | 8/12/2003 | 8 | | 200 | | 40 | | 6 | |
| OU3-5M2 | OU3-5M2-10421 | 12/3/2003 | 6.5 | | 200 | | 35 | | 5.4 | |
| OU3-5M2 | OU3-5M2-10499 | 3/4/2004 | 7.4 | | 220 | | 37 | | 4.9 | |
| OU3-5M2 | OU3-5M2-10597 | 9/8/2004 | 3.2 | J | 130 | J | 22 | J | 2.5 | J |
| OU3-5M2 | OU3-5M2-10721 | 3/9/2005 | 7 | | 160 | | 33 | | 4 | |
| OU3-5M2 | OU3-5M2-10838 | 9/26/2005 | 8.1 | | 180 | | 34 | | 5.7 | |
| OU3-5M2 | OU3-5M2-10956 | 3/2/2006 | 7.6 | D | 150 | D | 34 | D | 4.6 | D |
| OU3-5M2 | OU3-5M2-11084 | 9/8/2006 | 9.8 | | 210 | D | 32 | D | 7.2 | |
| OU3-5M2 | OU3-5M2-11199 | 3/10/2007 | 8.9 | J+ | 200 | D | 34 | D | 9.2 | J+ |
| OU3-5M2 | OU3-5M2-11314 | 9/13/2007 | 8.2 | | 180 | D | 31 | D | 8.6 | |
| OU3-5M2 | OU3-5M2-11429 | 3/17/2008 | 8.2 | | 200 | D | 29 | D | 7.9 | J+ |
| OU3-5M2 | OU3-5M2-11543 | 9/19/2008 | 8.3 | | 190 | D | 30 | D | 9.6 | J+ |
| OU3-5M2 | OU3-5M2-11614 | 3/9/2009 | 2.1 | | 68 | D | 11 | J+ | 5.3 | J+ |
| OU3-5M2 | OU3-5M2-11692 | 9/28/2009 | 3.1 | | 96 | D | 13 | | 5.7 | |
| OU3-5M2 | OU3-26M2-M2-032410 | 3/24/2010 | 5.4 | | 140 | | 26 | | 11 | |
| OU3-5M2 | OU3-5M2-M2-032410 | 3/24/2010 | 5.3 | | 130 | | 24 | | 11 | |
| OU3-5M2 | OU3-5M2-M-092110 | 9/21/2010 | 4.2 | | 110 | | 22 | | 12 | |
| OU3-5M2 | OU3-5M2-M-031611 | 3/16/2011 | 3.2 | | 73 | | 14 | J | 8.7 | J |
| OU3-5M2 | OU3-5M2-M-091411 | 9/14/2011 | 3.2 | | 75 | | 14 | | 7.9 | |
| OU3-5M2 | OU3-5M2-M-032112 | 3/21/2012 | 2.8 | | 74 | | 13 | | 8.5 | |
| OU3-5M2 | OU3-5M2-M-091912 | 9/19/2012 | 2.4 | | 61 | | 11 | | 5.8 | |
| OU3-5M2 | OU3-5M2-M-031213 | 3/12/2013 | 81 | | 3.2 | | 14 | | 9.0 | |
| OU3-5MR | OU3-5MR-10285 | 7/10/2003 | 11 | | 240 | | 48 | | < 5 | |
| OU3-5MR | OU3-5MR-10324 | 8/11/2003 | 10 | | 250 | J | 49 | | < 5 | |
| OU3-5MR | OU3-5MR-10423 | 12/3/2003 | 6.2 | | 180 | | 43 | | 2.5 | |
| OU3-5MR | OU3-5MR-10424 | 12/3/2003 | 6.2 | | 200 | | 46 | | 2.2 | |
| OU3-5MR | OU3-5MR-10501 | 3/4/2004 | 6.8 | | 190 | | 38 | | 2 | |
| OU3-5MR | OU3-5MR-10599 | 9/8/2004 | 1.3 | | 54 | | 12 | | 0.49 | J |
| OU3-5MR | OU3-5MR-10600 | 9/8/2004 | 1.5 | | 47 | | 11 | | 0.54 | |
| OU3-5MR | OU3-5MR-10723 | 3/9/2005 | 7 | J | 170 | | 31 | | < 13 | UJ |
| OU3-5MR | OU3-5MR-10724 | 3/9/2005 | 7 | J | 180 | | 32 | | < 13 | UJ |
| OU3-5MR | OU3-5MR-10840 | 9/29/2005 | 8.3 | | 170 | | 37 | | 2.6 | |
| OU3-5MR | OU3-5MR-10841 | 9/29/2005 | 8.1 | | 170 | | 37 | | 2.6 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-5MR | OU3-5MR-10958 | 3/2/2006 | 9.1 | | 54 | D | 13 | D | 4.2 | |
| OU3-5MR | OU3-5MR-10959 | 3/2/2006 | 7.3 | D | 150 | D | 36 | D | 3.5 | D |
| OU3-5MR | OU3-5MR-11086 | 9/9/2006 | 9 | | 210 | D | 40 | D | 5.6 | |
| OU3-5MR | OU3-5MR-11087 | 9/9/2006 | 8.4 | | 200 | D | 40 | D | 5.1 | |
| OU3-5MR | OU3-5MR-11201 | 3/10/2007 | 6.6 | J+ | 140 | D | 31 | D | 6 | J+ |
| OU3-5MR | OU3-5MR-11202 | 3/10/2007 | 7.2 | J+ | 130 | D | 30 | D | 6.5 | J+ |
| OU3-5MR | OU3-5MR-11316 | 9/13/2007 | 8.6 | | 150 | D | 31 | D | 10 | |
| OU3-5MR | OU3-5MR-11317 | 9/13/2007 | 10 | | 130 | D | 29 | D | 13 | |
| OU3-5MR | OU3-5MR-11431 | 3/17/2008 | 5.6 | | 140 | D | 25 | D | 6.1 | |
| OU3-5MR | OU3-5MR-11432 | 3/17/2008 | 5.7 | | 150 | D | 25 | D | 6.3 | |
| OU3-5MR | OU3-5MR-11545 | 9/19/2008 | 5.9 | | 130 | D | 24 | D | 8.3 | J+ |
| OU3-5MR | OU3-5MR-11546 | 9/19/2008 | 5.6 | | 130 | D | 26 | D | 7.9 | J+ |
| OU3-5MR | OU3-5MR-11615 | 3/9/2009 | 1.4 | | 49 | D | 8.2 | J+ | 4.3 | J+ |
| OU3-5MR | OU3-5MR-11616 | 3/9/2009 | 1.5 | | 56 | D | 8.3 | J+ | 4.4 | J+ |
| OU3-5MR | OU3-5MR-11693 | 9/28/2009 | 2.2 | | 44 | D | 10 | J+ | 4.9 | J+ |
| OU3-5MR | OU3-5MR-11694 | 9/28/2009 | 2.2 | | 41 | D | 10 | J+ | 4.8 | J |
| OU3-5MR | OU3-5MR-M-032410 | 3/24/2010 | 3.7 | | 88 | | 18 | | 9.3 | |
| OU3-5MR | OU3-5MR-M-092110 | 9/21/2010 | 2.9 | | 71 | | 15 | | 9.7 | |
| OU3-5MR | OU3-5MR-M-031611 | 3/16/2011 | 2.3 | | 50 | | 10 | | 7.0 | |
| OU3-5MR | OU3-5MR-M-091411 | 9/14/2011 | 2.2 | | 52 | | 10 | | 6.7 | |
| OU3-5MR | OU3-5MR-M-091411-Q1 | 9/14/2011 | 2.0 | | 48 | | 9.7 | | 6.7 | |
| OU3-5MR | OU3-5MR-M-032112 | 3/21/2012 | 1.9 | | 42 | | 8.2 | | 6.2 | |
| OU3-5MR | OU3-5MR-M-091912 | 9/19/2012 | 1.6 | | 34 | | 7.4 | | 4.2 | |
| OU3-5MR | OU3-5MR-M-031213 | 3/12/2013 | 41 | | 1.8 | | 8.7 | | 6.7 | |
| OU3-5SR | OU3-5SR-10284 | 7/10/2003 | 5 | | 110 | | 24 | | < 5 | |
| OU3-5SR | OU3-5SR-10323 | 8/11/2003 | 4 | | 78 | | 21 | | < 5 | |
| OU3-5SR | OU3-5SR-10422 | 12/3/2003 | 3 | | 80 | | 18 | | 0.7 | J |
| OU3-5SR | OU3-5SR-10500 | 3/4/2004 | 4.6 | | 94 | | 19 | | 0.7 | J |
| OU3-5SR | OU3-5SR-10598 | 9/8/2004 | 2.2 | | 67 | | 12 | | 0.37 | J |
| OU3-5SR | OU3-5SR-10722 | 3/9/2005 | 2 | | 66 | | 11 | | < 2.5 | |
| OU3-5SR | OU3-5SR-10839 | 9/29/2005 | 3.6 | | 78 | | 15 | | 1.2 | |
| OU3-5SR | OU3-5SR-10957 | 3/2/2006 | 2.4 | | 42 | D | 13 | | < 0.5 | |
| OU3-5SR | OU3-5SR-11085 | 9/9/2006 | 4.5 | | 100 | D | 19 | D | 1.9 | |
| OU3-5SR | OU3-5SR-11315 | 9/13/2007 | 3.3 | | 69 | D | 19 | | 2.7 | |
| OU3-5SR | OU3-5SR-11430 | 3/17/2008 | 2.1 | | 68 | D | 13 | | 1.7 | |
| OU3-5SR | OU3-5SR-11544 | 9/19/2008 | 2.5 | | 59 | D | 12 | | 3 | |
| OU3-5SR | OU3-5SR-11617 | 3/9/2009 | 0.45 | J | 16 | | 3.1 | J+ | 1.1 | J+ |
| OU3-5SR | OU3-5SR-11695 | 9/28/2009 | 0.79 | | 16 | | 3.3 | J+ | 2 | J+ |
| OU3-5SR | OU3-5SR-S-032410 | 3/24/2010 | 1.8 | | 39 | | 8.4 | | 4.6 | |
| OU3-5SR | OU3-5SR-S-092110 | 9/21/2010 | 1.5 | | 39 | | 9.3 | | 5.6 | |
| OU3-5SR | OU3-5SR-S-031611 | 3/16/2011 | 1.4 | | 28 | | 6.5 | J | 4.6 | J |
| OU3-5SR | OU3-5SR-S-091411 | 9/14/2011 | 1.1 | | 23 | | 5.1 | | 3.8 | |
| OU3-5SR | AT-OU3-5SR-S-111511-17:42-1 | 11/15/2011 | 1.5 | | 29 | | 5.8 | | 4.2 | |
| OU3-5SR | AT-OU3-5SR-S-111511-23:11-2 | 11/15/2011 | 1.5 | | 29 | | 5.8 | | 4.3 | |
| OU3-5SR | AT-OU3-5SR-S-111611-05:11-3 | 11/16/2011 | 1.5 | | 30 | | 5.5 | | 4.0 | |
| OU3-5SR | OU3-5SR-S-032112 | 3/21/2012 | 1.2 | | 23 | | 4.9 | | 3.8 | |
| OU3-5SR | OU3-5SR-S-091912 | 9/19/2012 | 1.0 | | 17 | | 4.2 | | 2.3 | |
| OU3-5SR | OU3-5SR-S-031213 | 3/12/2013 | 20 | | 0.91 | | 4.3 | | 3.1 | |
| OU3-6D | OU3-6D-WG-0302 | 4/22/2002 | < 1 | | 4 | | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10021 | 6/28/2002 | < 1 | | 5 | | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10076 | 9/13/2002 | < 1 | | 5 | | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10142 | 12/20/2002 | < 1 | | 4 | UJ | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10205 | 3/6/2003 | < 1 | | 4 | U | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10349 | 9/6/2003 | < 1 | | 3 | U | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10471 | 3/9/2004 | 0.8 | UJ | 4.8 | U | < 1 | | < 1 | |
| OU3-6D | OU3-6D-10569 | 9/13/2004 | 0.16 | UJ | 2.2 | J | < 0.5 | UJ | < 0.5 | UJ |
| OU3-6D | OU3-6D-10687 | 3/7/2005 | 0.12 | J | 2.6 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-10686 | 3/8/2005 | 0.13 | J | 2.9 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-10810 | 9/28/2005 | < 0.5 | | 2.3 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-10811 | 9/28/2005 | 0.12 | J- | 2.3 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-10928 | 3/6/2006 | < 0.5 | | 1.8 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-10929 | 3/6/2006 | < 0.5 | | 1.8 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11056 | 9/7/2006 | < 0.5 | | 1.7 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11057 | 9/7/2006 | < 0.5 | | 1.7 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11172 | 3/8/2007 | < 0.5 | | 1.4 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11173 | 3/8/2007 | < 0.5 | | 1.4 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11287 | 9/12/2007 | < 0.5 | | 1.4 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11288 | 9/12/2007 | < 0.5 | | 1.3 | U | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11402 | 3/14/2008 | < 0.5 | | 0.82 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11403 | 3/14/2008 | < 0.5 | | 0.86 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11517 | 9/18/2008 | < 0.5 | | 0.7 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11518 | 9/18/2008 | < 0.5 | | 0.68 | | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11618 | 3/6/2009 | < 0.5 | | 0.33 | J | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11619 | 3/6/2009 | < 0.5 | | 0.3 | J | < 0.5 | | < 0.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-6D | OU3-6D-11696 | 9/24/2009 | < 0.5 | | 0.3 | J | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-11697 | 9/24/2009 | < 0.5 | | 0.27 | J | < 0.5 | | < 0.5 | |
| OU3-6D | OU3-6D-D-032310 | 3/23/2010 | < 0.50 | | 0.52 | | < 0.50 | | < 0.50 | |
| OU3-6D | OU3-6D-D-092210 | 9/22/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-6D | OU3-6D-D-031411 | 3/14/2011 | < 0.50 | | 0.63 | | < 0.50 | | < 0.50 | |
| OU3-6D | OU3-6D-D-091211 | 9/12/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-6D | OU3-6D-D-031612 | 3/16/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-6D | OU3-6D-D-091712-MS/MSD | 9/17/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-6D | OU3-6D-D-030713 -MS/MSD | 3/7/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-6M | OU3-6M-WG-0301 | 4/22/2002 | 2 | | 50 | | 11 | | 22 | |
| OU3-6M | OU3-6M-10023 | 6/28/2002 | 2 | | 110 | | 18 | | 40 | |
| OU3-6M | OU3-6M-10078 | 9/13/2002 | 2 | | 74 | | 21 | | 36 | |
| OU3-6M | OU3-6M-10144 | 12/19/2002 | 2 | | 90 | | 17 | | 40 | |
| OU3-6M | OU3-6M-10206 | 3/6/2003 | 2 | | 80 | | 14 | | 40 | |
| OU3-6M | OU3-6M-10350 | 9/6/2003 | 1.6 | U | 55 | U | 14 | U | 22 | U |
| OU3-6M | OU3-6M-10472 | 3/9/2004 | 1.9 | U | 46 | U | 10 | | 21 | |
| OU3-6M | OU3-6M-10473 | 3/9/2004 | 2.2 | U | 52 | | 11 | | 24 | |
| OU3-6M | OU3-6M-10570 | 9/13/2004 | 0.34 | J | 11 | J | 2.4 | J | 4.8 | J |
| OU3-6M | OU3-6M-10571 | 9/13/2004 | 0.3 | J | 10 | J | 2.4 | J | 4.6 | J |
| OU3-6M | OU3-6M-10688 | 3/8/2005 | 1.5 | J | 41 | | 9 | | 22 | J |
| OU3-6M | OU3-6M-10812 | 9/28/2005 | 1.3 | | 26 | | 6.5 | J+ | 15 | |
| OU3-6M | OU3-6M-10930 | 3/6/2006 | 0.9 | J | 16 | J | 4.3 | J | 10 | J |
| OU3-6M | OU3-6M-11058 | 9/7/2006 | 0.67 | | 14 | | 3.5 | J+ | 9.8 | |
| OU3-6M | OU3-6M-11174 | 3/8/2007 | 0.61 | | 11 | | 2.6 | J+ | 7.2 | |
| OU3-6M | OU3-6M-11289 | 9/12/2007 | 0.61 | | 8.7 | | 2.4 | | 6.1 | |
| OU3-6M | OU3-6M-11404 | 3/14/2008 | 0.43 | J | 6.2 | | 1.3 | | 4 | |
| OU3-6M | OU3-6M-11519 | 9/18/2008 | 0.19 | J | 2.1 | | 0.59 | | 1.7 | |
| OU3-6M | OU3-6M-11620 | 3/6/2009 | < 0.5 | | 1.2 | | 0.28 | J+ | 0.92 | J+ |
| OU3-6M | OU3-6M-11698 | 9/24/2009 | < 0.5 | | 0.92 | | 0.21 | J | 0.74 | |
| OU3-6M | OU3-6M-M-032310 | 3/23/2010 | < 0.50 | | 1.3 | | < 0.50 | | 0.83 | |
| OU3-6M | OU3-6M-M-092210 | 9/22/2010 | < 0.50 | | 0.63 | | < 0.50 | | < 0.50 | |
| OU3-6M | OU3-6M-M-031411 | 3/14/2011 | < 0.50 | | 0.73 | | < 0.50 | | < 0.50 | |
| OU3-6M | OU3-6M-M-091211 | 9/12/2011 | < 0.50 | | 0.59 | | < 0.50 | | < 0.50 | |
| OU3-6M | OU3-6M-M-031612 | 3/16/2012 | < 0.50 | | 0.69 | | < 0.50 | | < 0.50 | |
| OU3-6M | OU3-6M-M-091712 | 9/17/2012 | < 0.50 | | 0.55 | | < 0.50 | | < 0.50 | |
| OU3-6M | OU3-6M-M-030713 | 3/7/2013 | 0.65 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-WG-0305 | 4/23/2002 | < 1 | | 7 | | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10015 | 6/26/2002 | 0.5 | J | 9 | | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10070 | 9/11/2002 | 0.5 | J | 6 | | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10136 | 12/18/2002 | 0.6 | J | 6 | | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10203 | 3/4/2003 | 0.6 | J | 6 | | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10347 | 9/5/2003 | 0.5 | J | 3.4 | | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10469 | 3/5/2004 | 1.5 | U | 7.2 | U | < 1 | | < 1 | |
| OU3-7M2 | OU3-7M2-10567 | 9/10/2004 | 0.29 | J | 2.6 | J | 0.21 | J | 0.12 | J |
| OU3-7M2 | OU3-7M2-10684 | 3/11/2005 | 0.99 | | 3.5 | | 0.18 | J | < 0.5 | |
| OU3-7M2 | OU3-7M2-10808 | 9/27/2005 | 0.92 | | 2.9 | | 0.18 | J | < 0.5 | |
| OU3-7M2 | OU3-7M2-10926 | 3/7/2006 | 1.2 | J | 3.2 | J | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11054 | 9/8/2006 | 1.3 | | 2.3 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11170 | 3/9/2007 | 1.2 | | 2.5 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11285 | 9/11/2007 | 1.2 | | 2 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11400 | 3/12/2008 | 1.3 | | 1.6 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11515 | 9/16/2008 | 1.5 | | 1.4 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11621 | 3/5/2009 | 0.49 | J | 0.51 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-11699 | 9/23/2009 | 0.66 | | 0.62 | | < 0.5 | | < 0.5 | |
| OU3-7M2 | OU3-7M2-M2-031810 | 3/18/2010 | 0.99 | | 1.4 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-091610 | 9/16/2010 | 1.2 | | 1.2 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-031011 | 3/10/2011 | 1.4 | | 1.2 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-090811 | 9/8/2011 | 1.5 | | 1.1 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-031512 | 3/15/2012 | 1.0 | | 0.92 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-031512-Q1 | 3/15/2012 | 1.2 | | 0.99 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-091312 | 9/13/2012 | 1.3 | | 0.76 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-030713 | 3/7/2013 | 0.87 | | 1.4 | | < 0.50 | | < 0.50 | |
| OU3-7M2 | OU3-7M2-M-030713 -Q1 | 3/7/2013 | 0.77 | | 1.3 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-WG-0304 | 4/23/2002 | 2 | | < 1 | | < 1 | | < 1 | |
| OU3-7S | OU3-7S-10014 | 6/26/2002 | 4 | | 0.5 | U | < 1 | | < 1 | |
| OU3-7S | OU3-7S-10069 | 9/10/2002 | 3 | | 1 | | 0.5 | J | < 1 | |
| OU3-7S | OU3-7S-10135 | 12/18/2002 | 3 | | 1 | | 0.5 | J | < 1 | |
| OU3-7S | OU3-7S-10204 | 3/4/2003 | 3 | | 1 | | < 1 | | < 1 | |
| OU3-7S | OU3-7S-10348 | 9/4/2003 | 2.6 | U | 3.1 | | < 1 | | < 1 | |
| OU3-7S | OU3-7S-10470 | 3/5/2004 | 3.2 | U | 4.6 | U | < 1 | | < 1 | |
| OU3-7S | OU3-7S-10568 | 9/10/2004 | 2.3 | | 1.9 | | 0.34 | J | < 0.5 | |
| OU3-7S | OU3-7S-10685 | 3/11/2005 | 3.2 | | 0.5 | | 0.22 | J | < 0.5 | |
| OU3-7S | OU3-7S-10809 | 9/25/2005 | 2.6 | | 0.85 | | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-10927 | 3/7/2006 | 3.5 | J | 0.63 | J | < 0.5 | | < 0.5 | |

**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-7S | OU3-7S-11055 | 9/8/2006 | 2.9 | | 0.64 | | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-11171 | 3/9/2007 | 3.4 | J+ | 0.62 | J+ | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-11286 | 9/11/2007 | 3.1 | | 0.59 | | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-11401 | 3/12/2008 | 3.5 | | 0.32 | J | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-11516 | 9/16/2008 | 4.1 | | 0.38 | J | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-11622 | 3/5/2009 | 1.4 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-11700 | 9/23/2009 | 1.7 | | 0.31 | J | < 0.5 | | < 0.5 | |
| OU3-7S | OU3-7S-S-031810 | 3/18/2010 | 2.4 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-091610 | 9/16/2010 | 2.6 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-031011 | 3/10/2011 | 2.6 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-090811 | 9/8/2011 | 2.8 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-031512 | 3/15/2012 | 2.9 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-092412 | 9/24/2012 | 2.5 | | 0.87 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-092412 Q1 | 9/24/2012 | 2.9 | | 0.85 | | < 0.50 | | < 0.50 | |
| OU3-7S | OU3-7S-S-030713 | 3/7/2013 | < 0.50 | | 3.0 | | < 0.50 | | < 0.50 | |
| OU3-8D | OU3-8D-10016 | 6/26/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-8D | OU3-8D-10071 | 9/11/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-8D | OU3-8D-10137 | 12/17/2002 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-8D | OU3-8D-10199 | 3/4/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-8D | OU3-8D-10343 | 9/5/2003 | < 1 | | < 1 | | < 1 | | < 1 | |
| OU3-8D | OU3-8D-10466 | 3/3/2004 | 0.9 | J | 2.5 | | < 1 | | < 1 | |
| OU3-8D | OU3-8D-10564 | 9/10/2004 | < 0.5 | UJ | 0.19 | J | < 0.5 | UJ | < 0.5 | UJ |
| OU3-8D | OU3-8D-10681 | 3/14/2005 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-10805 | 9/27/2005 | < 0.5 | | 0.075 | U | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-10923 | 3/3/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11051 | 9/13/2006 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11167 | 3/12/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11282 | 9/10/2007 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11397 | 3/13/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11512 | 9/17/2008 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11623 | 3/4/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-11701 | 9/22/2009 | < 0.5 | | < 0.5 | | < 0.5 | | < 0.5 | |
| OU3-8D | OU3-8D-D-031910 | 3/19/2010 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-8D | OU3-8D-D-031111 | 3/11/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-8D | OU3-8D-D-091311 | 9/13/2011 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-8D | OU3-8D-D-031912 | 3/19/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-8D | OU3-8D-D-091412 | 9/14/2012 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-8D | OU3-8D-D-030813 | 3/8/2013 | < 0.50 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-10018 | 6/25/2002 | 0.7 | J | 49 | | 3 | | < 1 | |
| OU3-8M2 | OU3-8M2-10073 | 9/11/2002 | 0.6 | J | 37 | | 2 | | < 1 | |
| OU3-8M2 | OU3-8M2-10139 | 12/17/2002 | 0.7 | J | 68 | | 2 | | < 1 | |
| OU3-8M2 | OU3-8M2-10201 | 3/4/2003 | < 1 | | 45 | | 2 | | < 1 | |
| OU3-8M2 | OU3-8M2-10346 | 9/5/2003 | < 1 | | 38 | U | 1.5 | U | < 1 | |
| OU3-8M2 | OU3-8M2-10468 | 3/3/2004 | 1.1 | | 34 | | 1.8 | | < 1 | |
| OU3-8M2 | OU3-8M2-10566 | 9/10/2004 | 0.23 | J | 10 | | < 0.5 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-10683 | 3/14/2005 | 0.39 | J | 26 | | 1.2 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-10807 | 9/27/2005 | 0.7 | | 32 | | 1.9 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-10925 | 3/3/2006 | 0.82 | | 12 | D | 2.6 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-11053 | 9/13/2006 | 0.93 | | 42 | D | 2.8 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-11169 | 3/12/2007 | 0.75 | | 23 | D | 2.4 | | 0.24 | J |
| OU3-8M2 | OU3-8M2-11284 | 9/10/2007 | 0.71 | | 30 | D | 2.2 | | 0.16 | J |
| OU3-8M2 | OU3-8M2-11399 | 3/13/2008 | 0.65 | | 24 | D | 1.4 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-11514 | 9/17/2008 | 0.91 | | 27 | D | 1.8 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-11624 | 3/4/2009 | 0.3 | J | 11 | | 0.89 | J+ | < 0.5 | |
| OU3-8M2 | OU3-8M2-11702 | 9/22/2009 | 0.44 | J | 14 | | 1.3 | | < 0.5 | |
| OU3-8M2 | OU3-8M2-M2-031910 | 3/19/2010 | 0.69 | | 23 | | 2.3 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-091710 | 9/17/2010 | 0.97 | | 33 | | 3.4 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-031111 | 3/11/2011 | 0.97 | | 29 | | 3.6 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-091311 | 9/13/2011 | < 0.50 | | 7.1 | | 0.54 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-031912 | 3/19/2012 | 1.0 | | 25 | | 2.5 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-091412-MS/MSD | 9/14/2012 | 0.79 | | 19 | | 2.1 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-030813 | 3/8/2013 | 17 | | 0.76 | | 1.4 | | < 0.50 | |
| OU3-8M2 | OU3-8M2-M-030813-Q1 | 3/8/2013 | 17 | | 0.72 | | 1.7 | | < 0.50 | |
| OU3-8S | OU3-8S-10017 | 6/25/2002 | 0.9 | J | 33 | | 3 | | < 1 | |
| OU3-8S | OU3-8S-10072 | 9/10/2002 | 0.8 | J | 23 | | 2 | | < 1 | |
| OU3-8S | OU3-8S-10138 | 12/17/2002 | 0.8 | J | 26 | | 3 | | < 1 | |
| OU3-8S | OU3-8S-10200 | 3/3/2003 | 1 | | 26 | | 3 | | < 1 | |
| OU3-8S | OU3-8S-10344 | 9/5/2003 | < 1 | | 11 | | 1.2 | | < 1 | |
| OU3-8S | OU3-8S-10345 | 9/5/2003 | 0.5 | J | 15 | | 1.6 | | < 1 | |
| OU3-8S | OU3-8S-10467 | 3/3/2004 | 1.4 | | 20 | | 2.1 | | < 1 | |
| OU3-8S | OU3-8S-10565 | 9/10/2004 | 0.83 | J | 13 | J | 1.5 | J | < 0.5 | |
| OU3-8S | OU3-8S-10682 | 3/15/2005 | 0.78 | | 14 | | 1.5 | | < 0.5 | |
| OU3-8S | OU3-8S-10806 | 9/21/2005 | 0.6 | | 11 | | 1.5 | | < 0.5 | |
| OU3-8S | OU3-8S-10924 | 3/3/2006 | 0.92 | | 15 | | 2.1 | | < 0.5 | |

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*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| OU3-8S | OU3-8S-11052 | 9/13/2006 | 1.4 | | 14 | | 1.4 | | < 0.5 | |
| OU3-8S | OU3-8S-11168 | 3/12/2007 | 1.1 | | 11 | | 1.4 | | < 0.5 | |
| OU3-8S | OU3-8S-11283 | 9/10/2007 | 1.3 | | 8.6 | | 0.99 | | < 0.5 | |
| OU3-8S | OU3-8S-11398 | 3/13/2008 | 1.3 | | 9.3 | | 0.82 | | < 0.5 | |
| OU3-8S | OU3-8S-11513 | 9/17/2008 | 1.5 | | 7.5 | | 0.73 | | < 0.5 | |
| OU3-8S | OU3-8S-11625 | 3/4/2009 | 0.45 | J | 4 | | 0.44 | J+ | < 0.5 | |
| OU3-8S | OU3-8S-11703 | 9/22/2009 | 0.6 | | 3.3 | | 0.43 | J | < 0.5 | |
| OU3-8S | OU3-8S-S-031910 | 3/19/2010 | 1.0 | | 8.9 | | 1.2 | | < 0.50 | |
| OU3-8S | OU3-8S-S-091710 | 9/17/2010 | 1.0 | | 8.2 | | 1.1 | | < 0.50 | |
| OU3-8S | OU3-8S-S-031111 | 3/11/2011 | 0.91 | | 11 | | 1.5 | | < 0.50 | |
| OU3-8S | OU3-8S-S-091311 | 9/13/2011 | 0.82 | | 6.1 | | 0.86 | | < 0.50 | |
| OU3-8S | OU3-8S-S-031912 | 3/19/2012 | 0.87 | | 8.3 | | 1.0 | | < 0.50 | |
| OU3-8S | OU3-8S-S-091412 | 9/14/2012 | 0.83 | | 4.8 | | 0.72 | | < 0.50 | |
| OU3-8S | OU3-8S-S-030813-MS/MSD | 3/8/2013 | 5.6 | | 0.75 | | 0.84 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-WG-323 | 3/24/2003 | 1.7 | | 7.9 | | < 1 | | < 1 | |
| OU3-9M2 | OU3-9M2-10250 | 6/6/2003 | 1.7 | | 8 | | < 1 | | < 1 | |
| OU3-9M2 | OU3-9M2-10362 | 9/7/2003 | 1.6 | | 5.3 | | < 1 | | < 1 | |
| OU3-9M2 | OU3-9M2-10426 | 12/4/2003 | 2 | J- | 8.2 | UJ | 0.6 | J- | < 1 | UJ |
| OU3-9M2 | OU3-9M2-10485 | 3/5/2004 | 2.9 | U | 11 | U | 0.8 | J | < 1 | |
| OU3-9M2 | OU3-9M2-10486 | 3/5/2004 | 2.9 | U | 11 | U | 0.8 | J | < 1 | |
| OU3-9M2 | OU3-9M2-10583 | 9/13/2004 | 0.8 | | 3.8 | | 0.49 | J | < 0.5 | |
| OU3-9M2 | OU3-9M2-10584 | 9/13/2004 | 0.65 | | 3.9 | | 0.5 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-10702 | 3/14/2005 | 2.6 | | 4.4 | | 0.57 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-10703 | 3/14/2005 | 3.1 | | 5.3 | | 0.61 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-10824 | 9/26/2005 | 2.8 | | 3.6 | | 0.57 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-10825 | 9/26/2005 | 2.8 | | 3.7 | | 0.57 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11035 | 3/27/2006 | 3.1 | | 4.2 | | 0.56 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11036 | 3/27/2006 | 3.4 | | 4.7 | | 0.64 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11070 | 9/13/2006 | 3.6 | | 4 | | 0.72 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11071 | 9/13/2006 | 4.1 | | 4.3 | | 0.76 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11185 | 3/7/2007 | 3.5 | J+ | 3.9 | J+ | 0.67 | J+ | < 0.5 | |
| OU3-9M2 | OU3-9M2-11186 | 3/7/2007 | 3.7 | J | 4.2 | J | 0.7 | J | < 0.5 | |
| OU3-9M2 | OU3-9M2-11300 | 9/10/2007 | 3.7 | | 3.2 | | 0.72 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11301 | 9/10/2007 | 3.9 | | 3.5 | | 0.74 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11415 | 3/13/2008 | 4.1 | | 2.5 | | 0.46 | J | < 0.5 | |
| OU3-9M2 | OU3-9M2-11416 | 3/13/2008 | 4.2 | | 2.6 | | 0.48 | J | < 0.5 | |
| OU3-9M2 | OU3-9M2-11530 | 9/17/2008 | 4.2 | | 2.3 | | 0.45 | J | < 0.5 | |
| OU3-9M2 | OU3-9M2-11626 | 3/5/2009 | 1.5 | | 1 | | < 0.5 | | < 0.5 | |
| OU3-9M2 | OU3-9M2-11704 | 9/23/2009 | 1.7 | | 1 | | 0.23 | J | < 0.5 | |
| OU3-9M2 | OU3-9M2-M2-031910 | 3/19/2010 | 2.7 | | 2.0 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-091710 | 9/17/2010 | 2.6 | | 2.0 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-031111 | 3/11/2011 | 2.4 | | 2.0 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-090911 | 9/9/2011 | 3.3 | | 1.8 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-031912 | 3/19/2012 | 2.5 | | 1.8 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-091412 | 9/14/2012 | 2.5 | | 1.2 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-030813 | 3/8/2013 | 1.3 | | 2.9 | | < 0.50 | | < 0.50 | |
| OU3-9M2 | OU3-9M2-M-030813-Q1 | 3/8/2013 | 1.2 | | 2.7 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-10012 | 6/25/2002 | 1 | | 0.6 | J | < 1 | | < 1 | |
| OU3-9S | OU3-9S-10068 | 9/10/2002 | 2 | | 0.6 | J | < 1 | | < 1 | |
| OU3-9S | OU3-9S-10133 | 12/17/2002 | 2 | | 0.7 | J | < 1 | | < 1 | |
| OU3-9S | OU3-9S-10202 | 3/3/2003 | 2 | | 0.6 | J | < 1 | | < 1 | |
| OU3-9S | OU3-9S-10361 | 9/4/2003 | 1.8 | U | 1.7 | | < 1 | | < 1 | |
| OU3-9S | OU3-9S-10484 | 3/5/2004 | 3.1 | U | 6.6 | U | 0.5 | J | < 1 | |
| OU3-9S | OU3-9S-10582 | 9/13/2004 | 3.2 | | 1.9 | | 0.47 | J | < 0.5 | |
| OU3-9S | OU3-9S-10701 | 3/14/2005 | 3.2 | | 0.72 | | 0.31 | J | < 0.5 | |
| OU3-9S | OU3-9S-10823 | 9/21/2005 | 1.7 | | 0.51 | | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11034 | 3/27/2006 | 3.1 | | 0.73 | | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11069 | 9/13/2006 | 3 | | 1.2 | | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11184 | 3/7/2007 | 2.7 | J | 0.73 | J | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11299 | 9/10/2007 | 2.5 | | 0.61 | | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11414 | 3/13/2008 | 2.7 | | 0.57 | | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11529 | 9/17/2008 | 2.7 | | 0.4 | J | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11627 | 3/5/2009 | 1.1 | | 0.28 | J | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-11705 | 9/23/2009 | 1.5 | | 0.31 | J | < 0.5 | | < 0.5 | |
| OU3-9S | OU3-9S-S-031910 | 3/19/2010 | 2.4 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-S-091710 | 9/17/2010 | 2.2 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-S-031111 | 3/11/2011 | 1.9 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-S-090911 | 9/9/2011 | 1.4 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-S-031912 | 3/19/2012 | 2.1 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-S-091412 | 9/14/2012 | 1.4 | | < 0.50 | | < 0.50 | | < 0.50 | |
| OU3-9S | OU3-9S-S-030813 | 3/8/2013 | < 0.50 | | 2.1 | | < 0.50 | | < 0.50 | |
| SC-MW-1D | SC-MW-1D-11030 | 3/13/2006 | 1.6 | J | 11 | | 2.9 | J | 6.3 | J |
| SC-MW-1D | SC-MW-1D-11158 | 9/12/2006 | 1.7 | | 15 | | 3.7 | J+ | 11 | |
| SC-MW-1D | SC-MW-1D-11273 | 3/13/2007 | 1.3 | J+ | 10 | J+ | 2.7 | J+ | 7.5 | J+ |

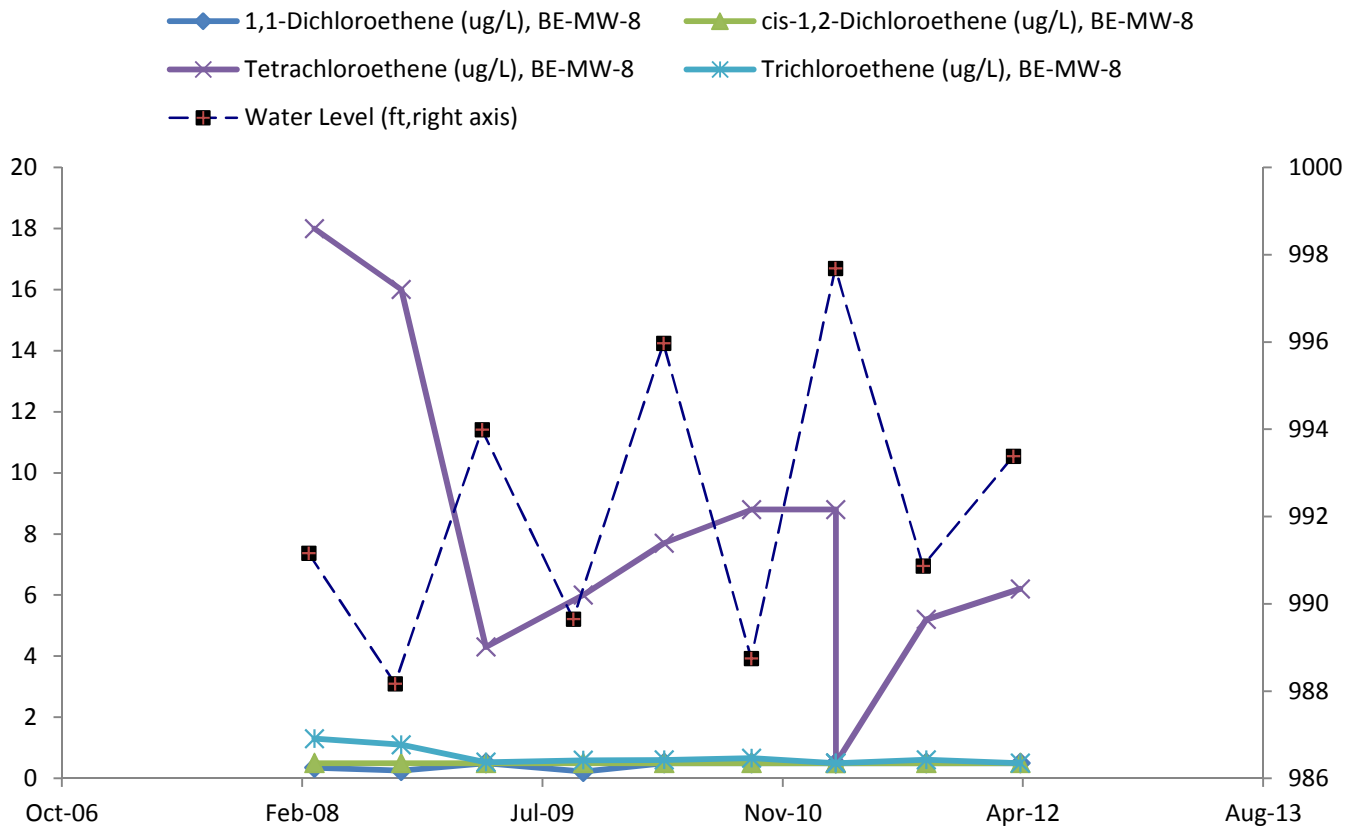
**Table D-2**

*Historical Volatile Organic Compound Concentrations*
*Operable Unit 3*
*Motorola 52nd Street Superfund Site*
*Phoenix, Arizona*

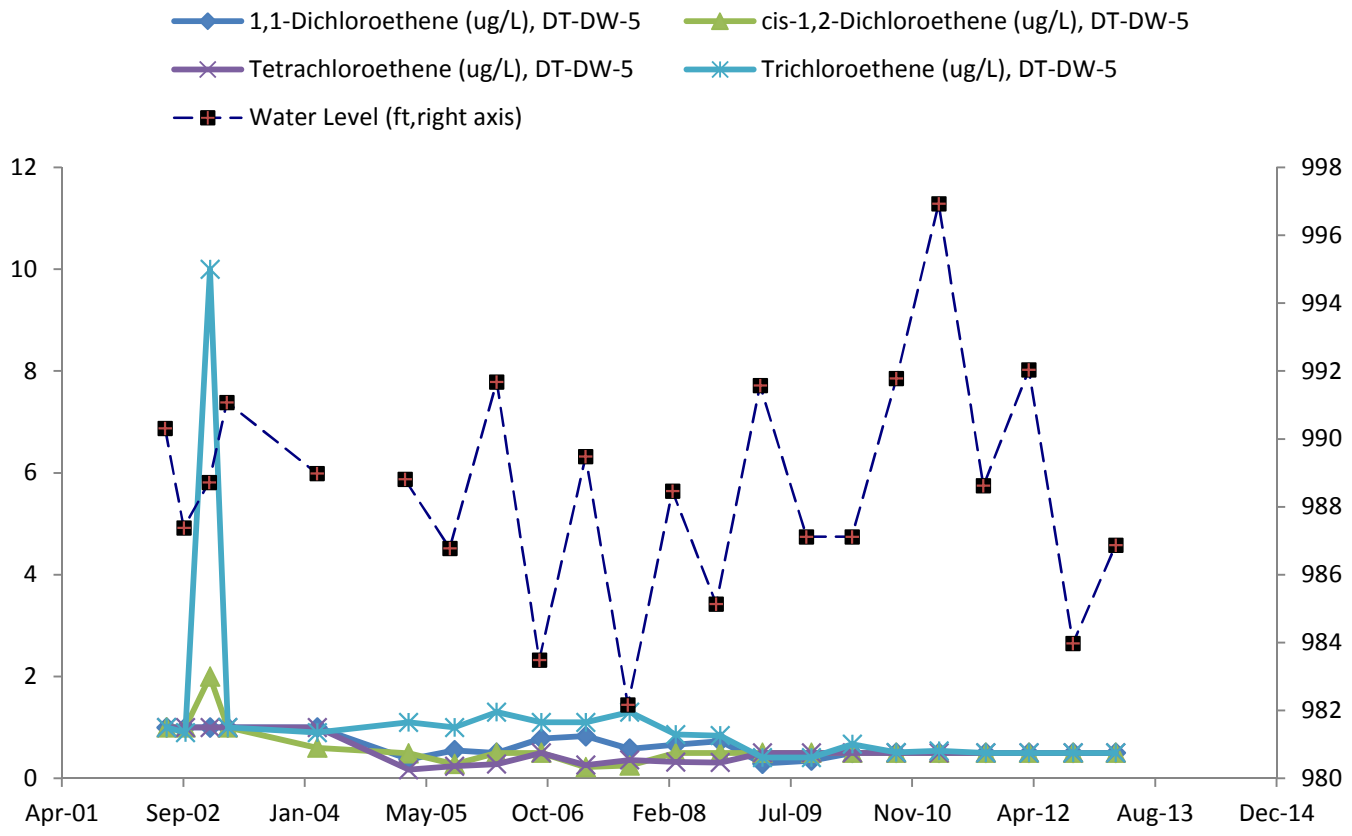
| Well | | Measurement Date | PCE µg/L | | TCE µg/L | | cDCE µg/L | | 1,1-DCE µg/L | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier | Report Result | Lab Qualifier |
| SC-MW-1D | SC-MW-1D-11388 | 9/14/2007 | 0.99 | | 7.4 | | 2.1 | | 7.1 | |
| SC-MW-1D | SC-MW-1D-11503 | 3/14/2008 | 0.93 | | 6.1 | | 1.5 | | 4.9 | |
| SC-MW-1D | SC-MW-1D-11507 | 9/23/2008 | 1 | | 4.6 | | 1.1 | J+ | 4 | J+ |
| SC-MW-1D | SC-MW-1D-11628 | 3/11/2009 | 0.29 | J | 1.5 | | 0.36 | J | 1.2 | |
| SC-MW-1D | SC-MW-1D-11706 | 9/30/2009 | 0.3 | J | 1.6 | | 0.47 | J | 1 | |
| SC-MW-1D | SC-MW-1D-S-031810 | 3/18/2010 | < 0.50 | | 2.6 | | 0.77 | | 1.9 | |
| SC-MW-1D | SC-MW-10-S-091510 | 9/15/2010 | < 0.50 | | 1.8 | | < 0.50 | | 1.1 | |
| SC-MW-1D | SC-MW-1D-S-030911 | 3/9/2011 | < 0.50 | | 1.6 | | < 0.50 | | 0.84 | |
| SC-MW-1D | SC-MW-1D-S-090911 | 9/9/2011 | < 0.50 | | 1.5 | | < 0.50 | | 0.81 | |
| SC-MW-1D | SC-MW-1D-5-031612 | 3/16/2012 | < 0.50 | | 1.2 | | < 0.50 | | 0.64 | |
| SC-MW-1D | SC-MW-1D-S-092412 | 9/24/2012 | < 0.50 | | 1.4 | | < 0.50 | | 0.64 | |
| SC-MW-1D | SC-MW-1D-S-092412 Q1 | 9/24/2012 | < 0.50 | | 1.3 | | < 0.50 | | 0.57 | |

*Appendix E*
*Time-Concentration Graphs*

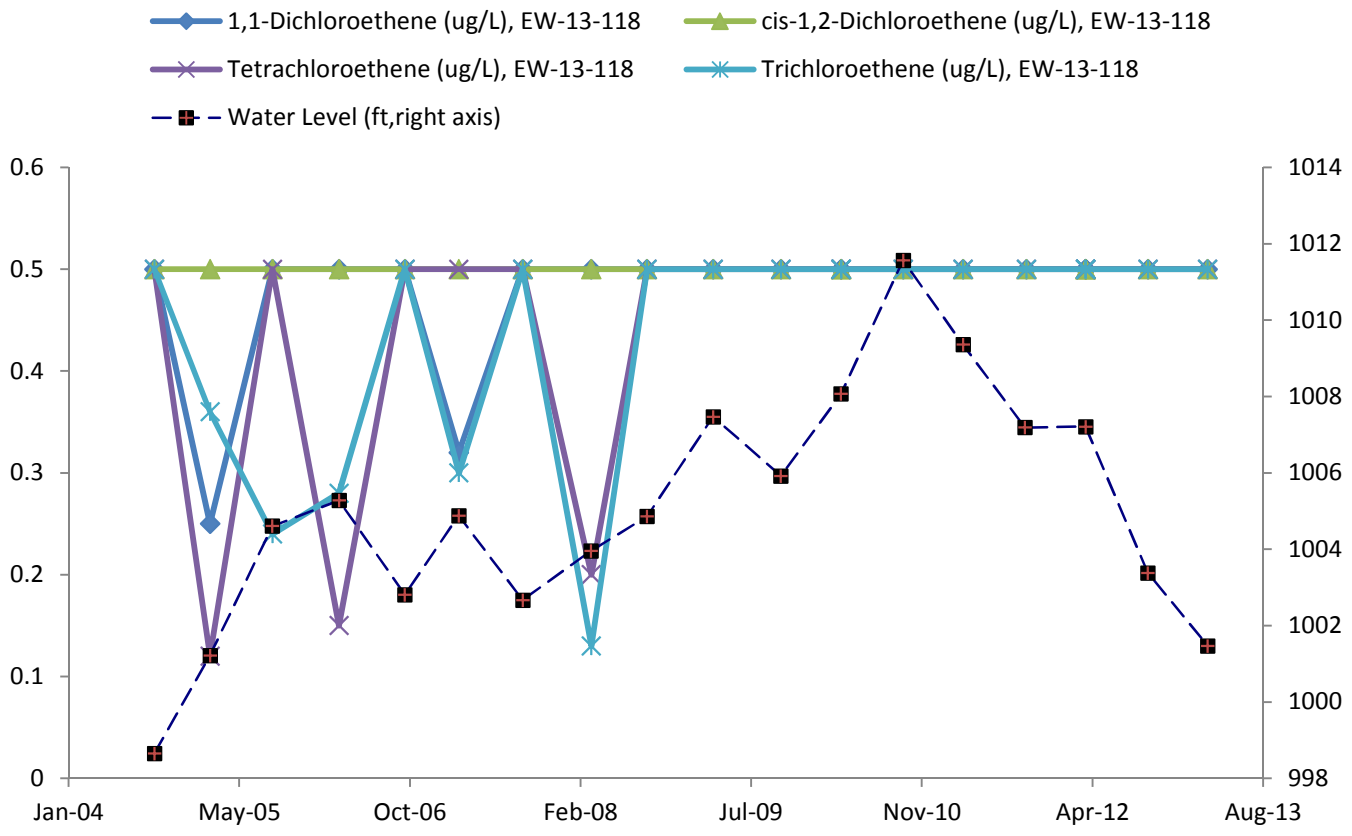
DRAFT



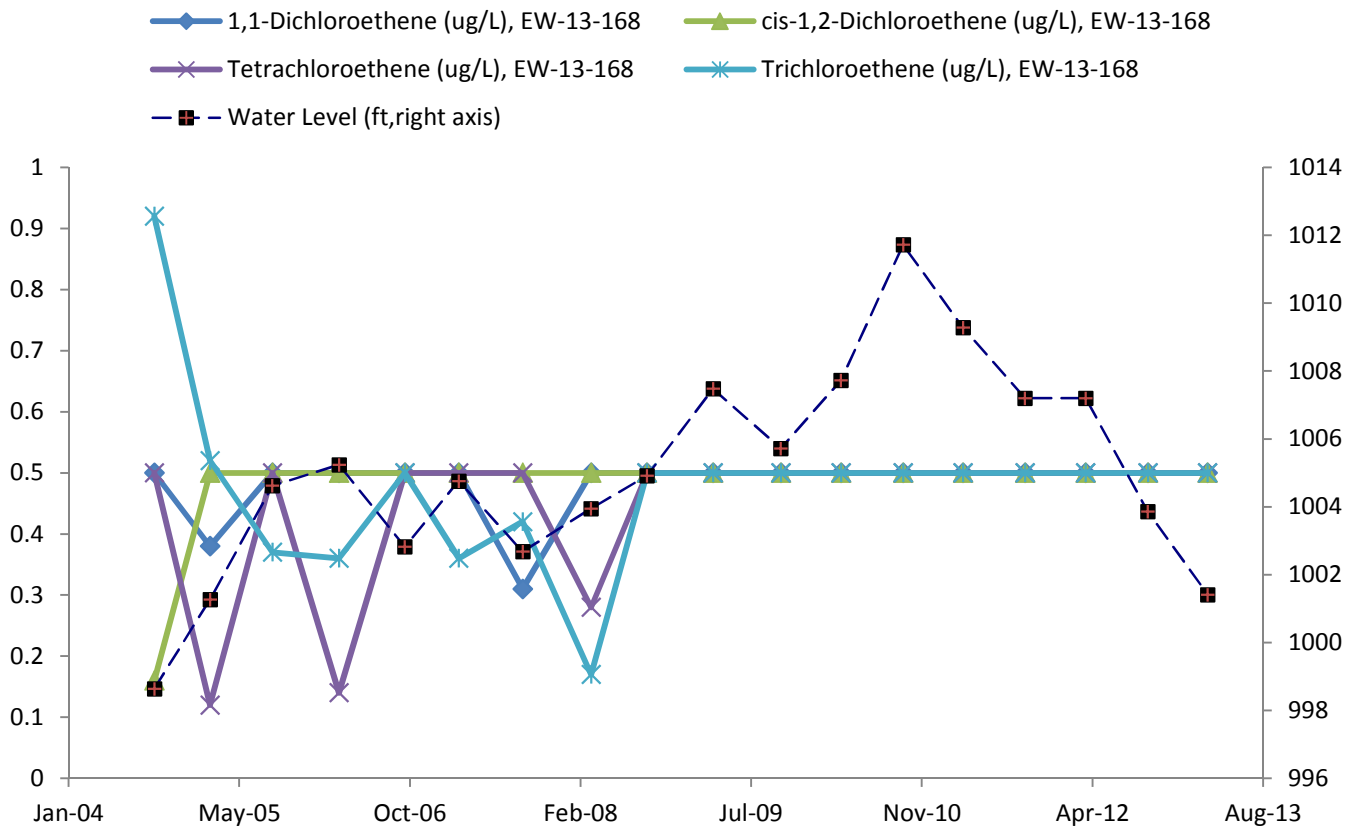

**Appendix E**
Historical Volatile Organic Compounds
BE-MW-8
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



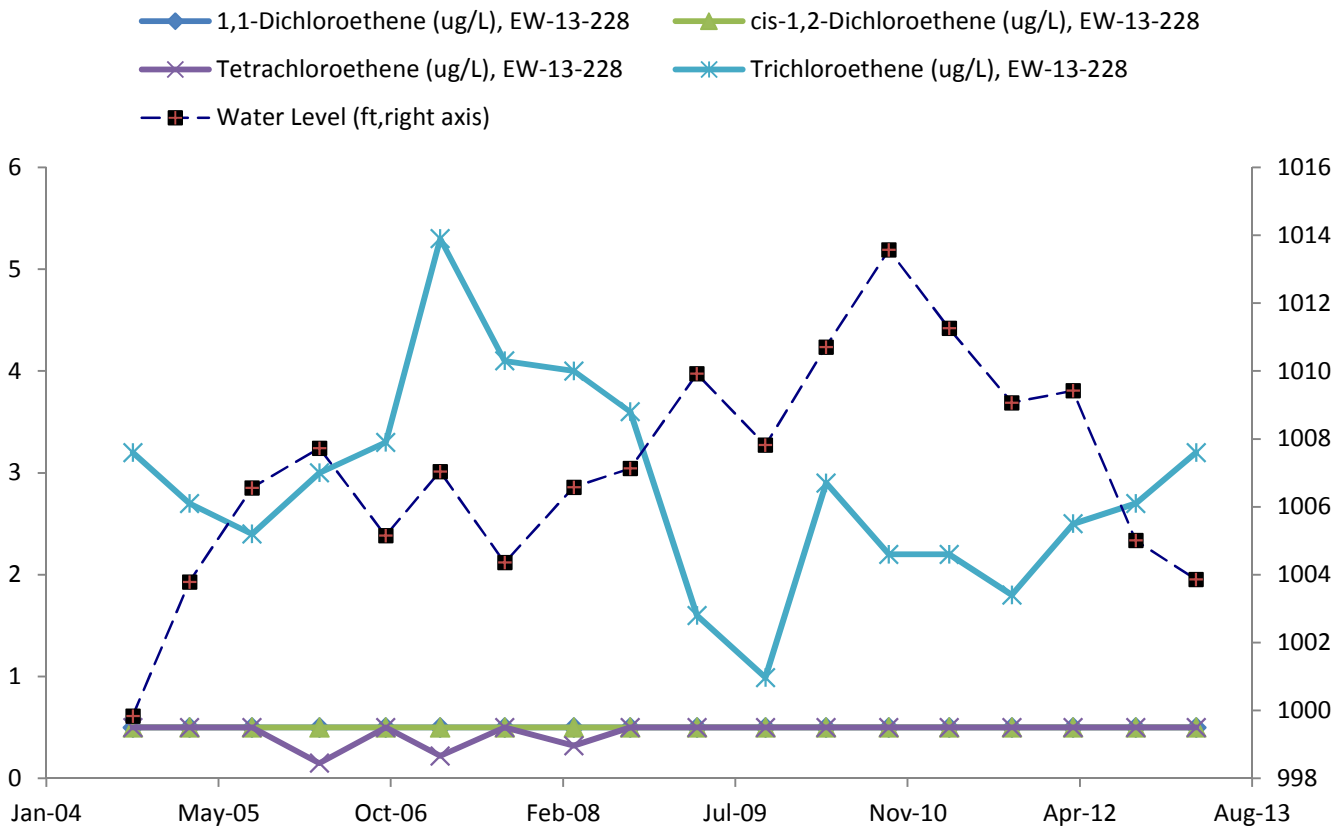

**Appendix E**
Historical Volatile Organic Compounds
DT-DW-5
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



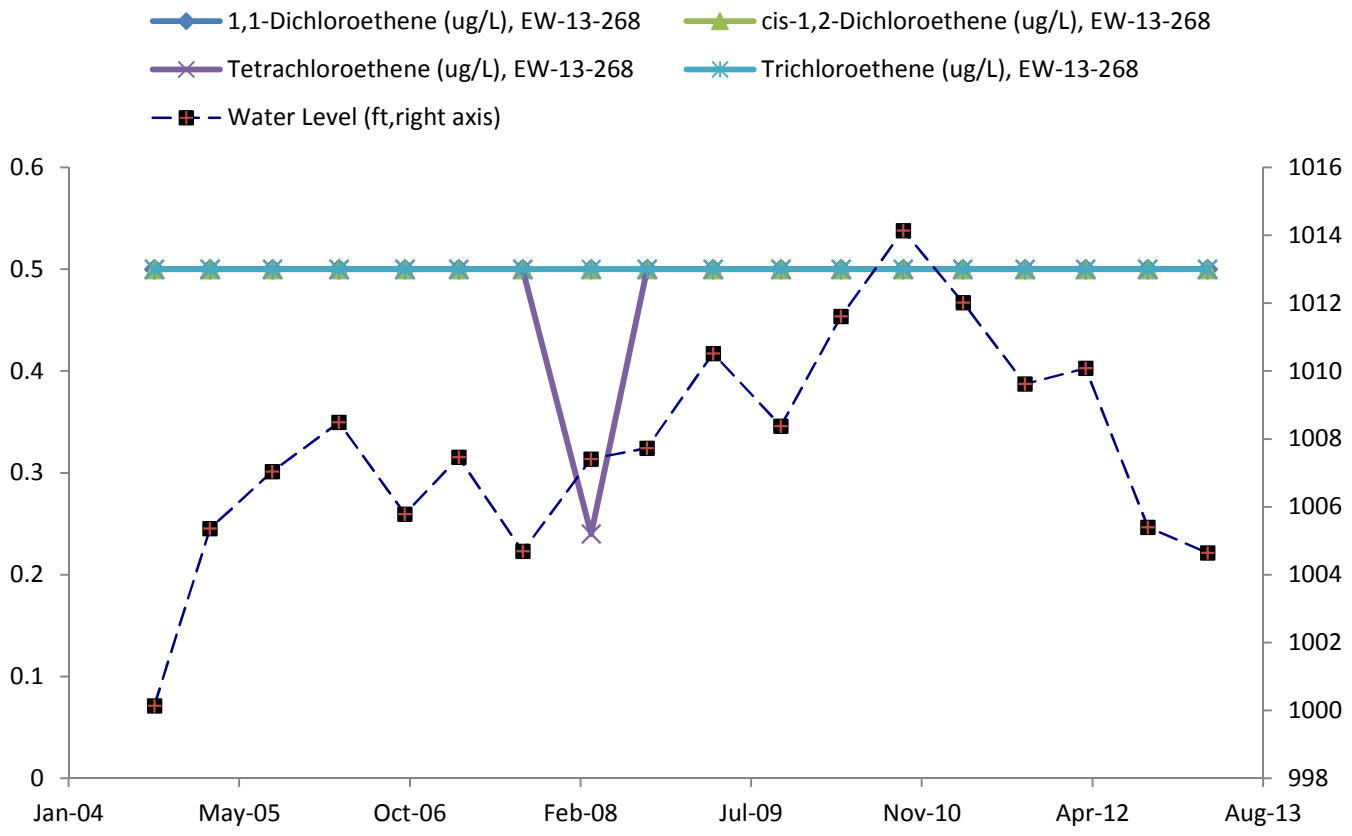

**Appendix E**
Historical Volatile Organic Compounds
EW-13-118
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



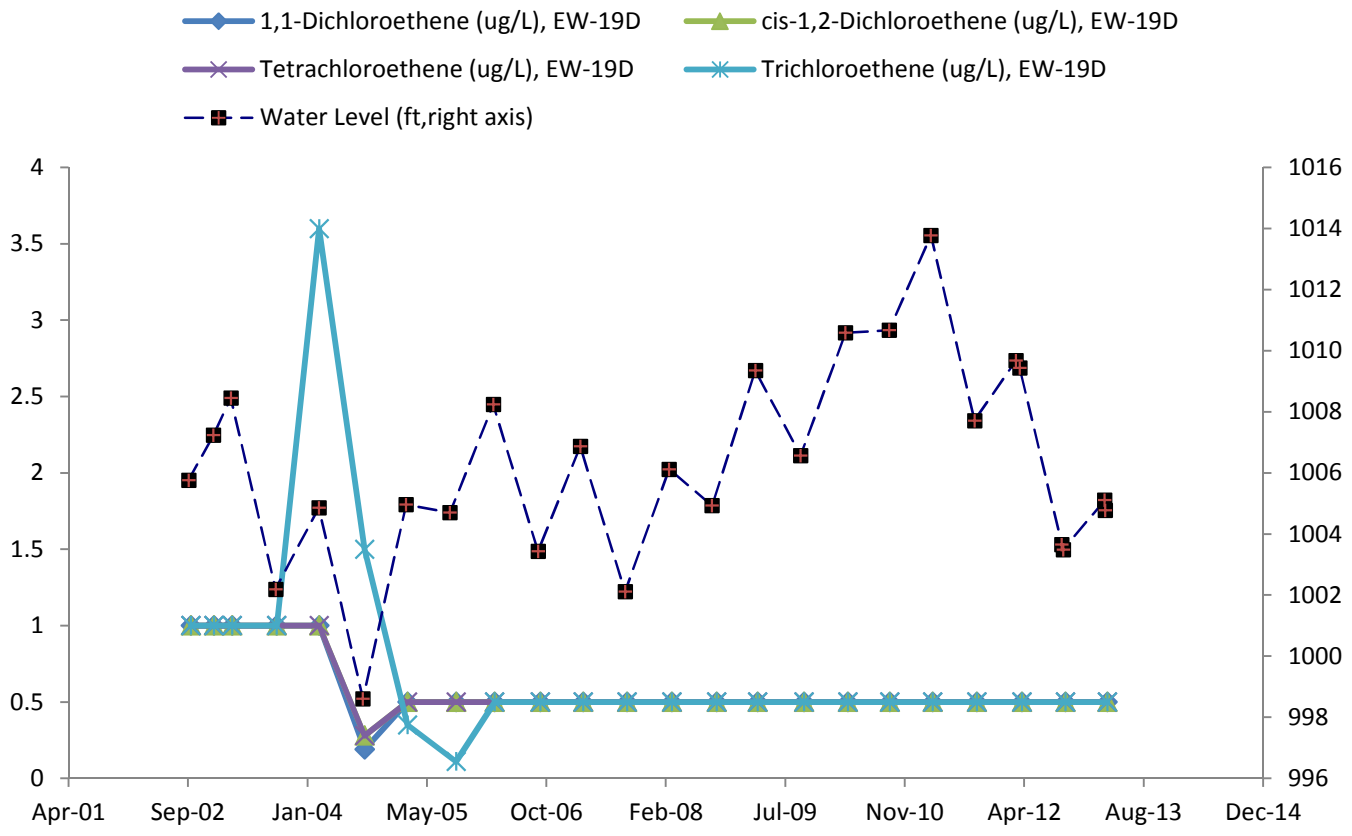

**Appendix E**
Historical Volatile Organic Compounds
EW-13-168
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



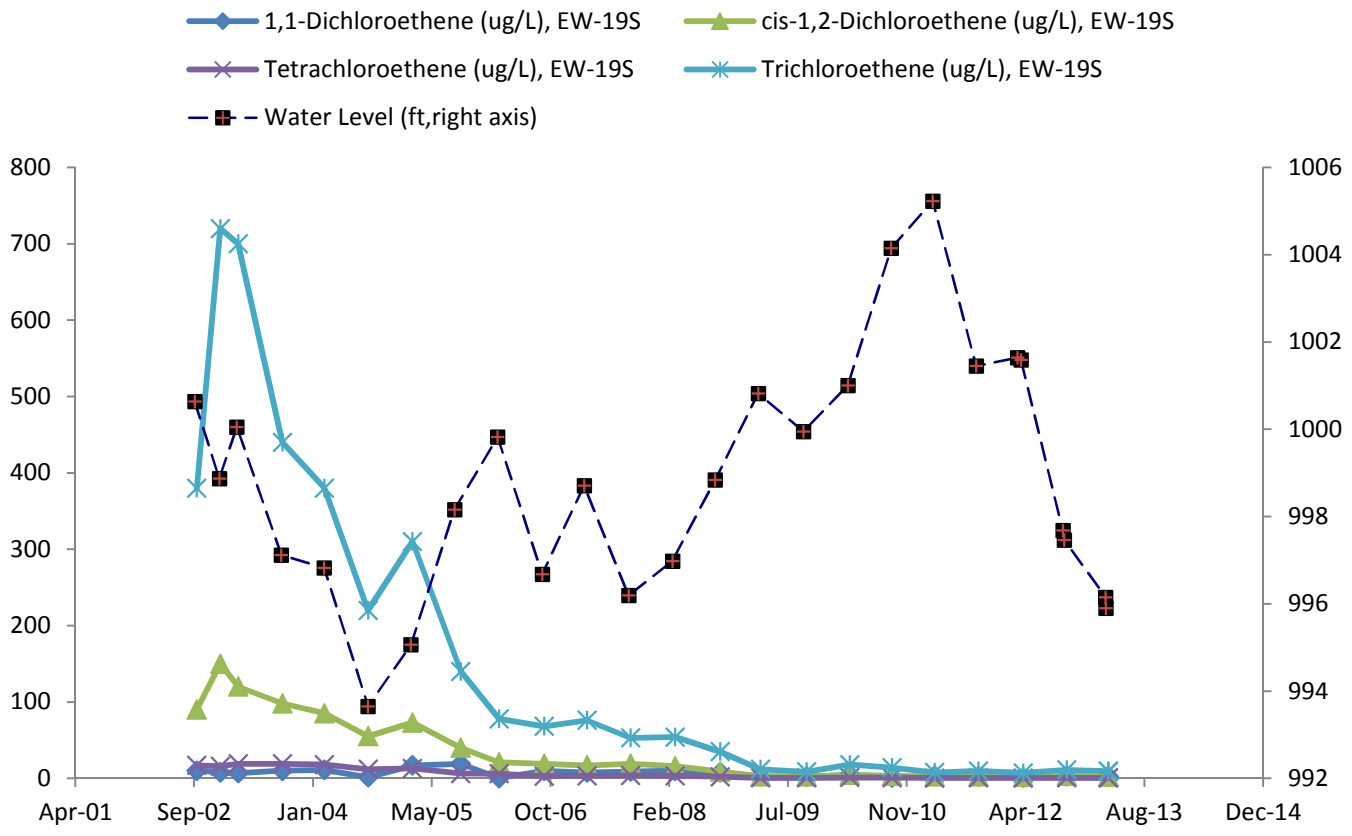

**Appendix E**
Historical Volatile Organic Compounds
EW-13-228
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



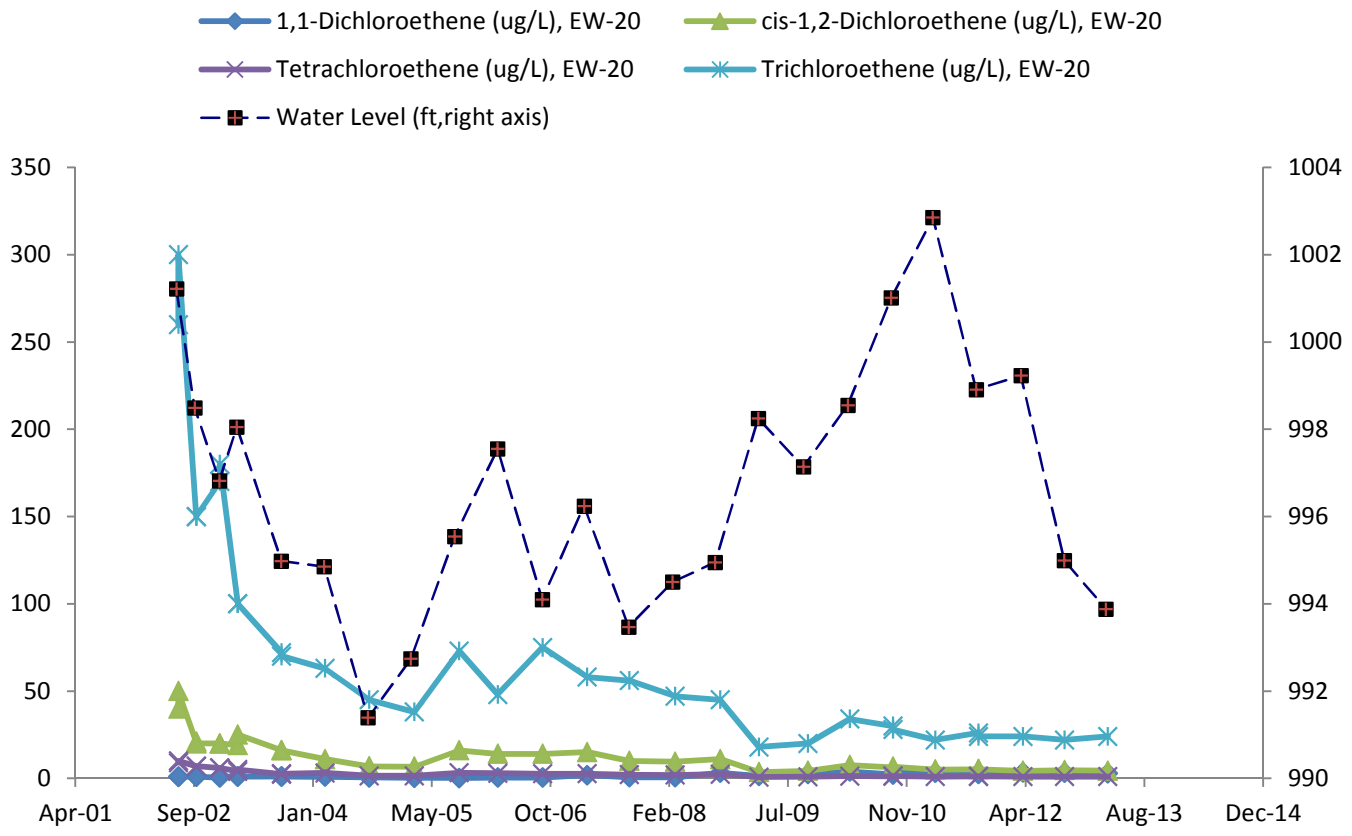

**Appendix E**
Historical Volatile Organic Compounds
EW-13-268
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



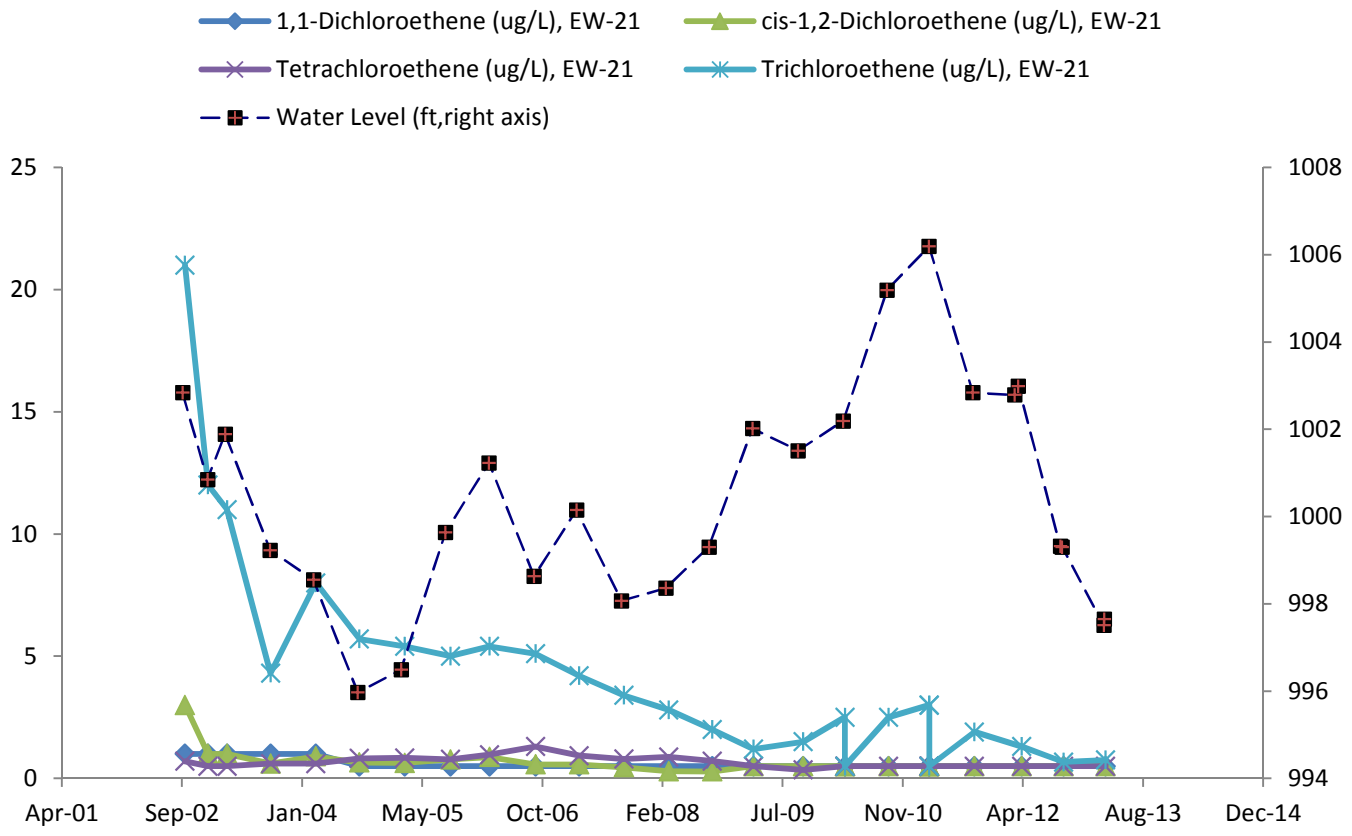

**Appendix E**
Historical Volatile Organic Compounds
EW-19D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



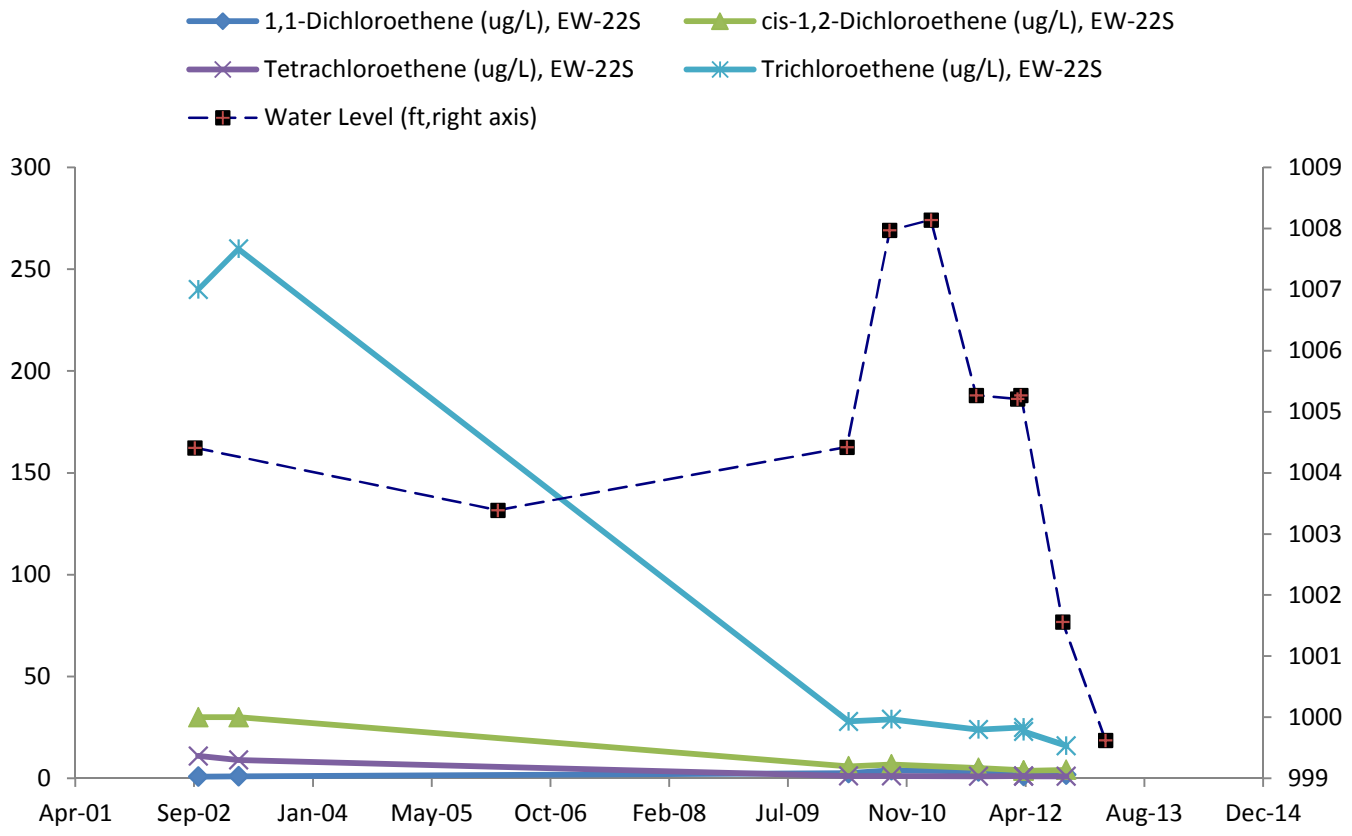

**Appendix E**
Historical Volatile Organic Compounds
EW-19S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



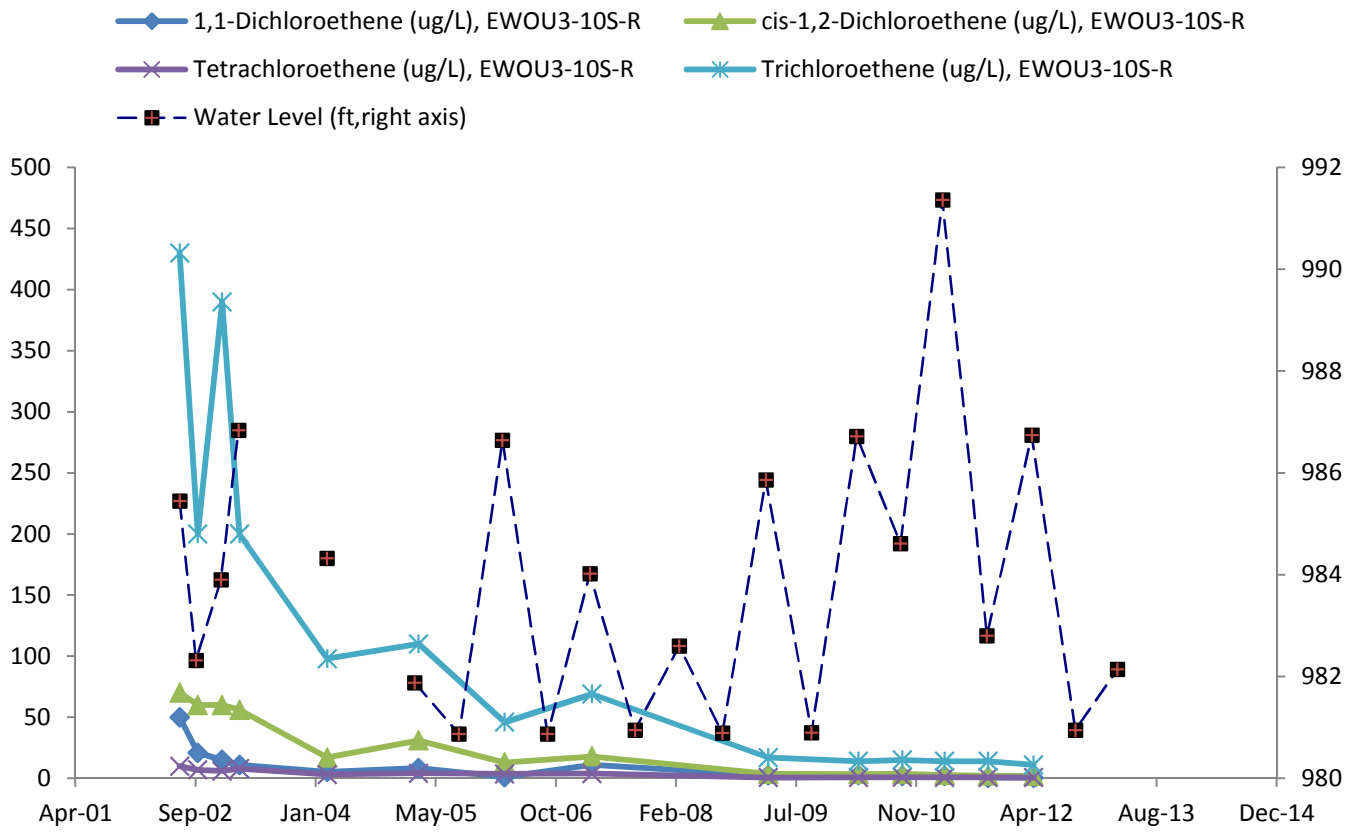

**Appendix E**
Historical Volatile Organic Compounds
EW-20
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



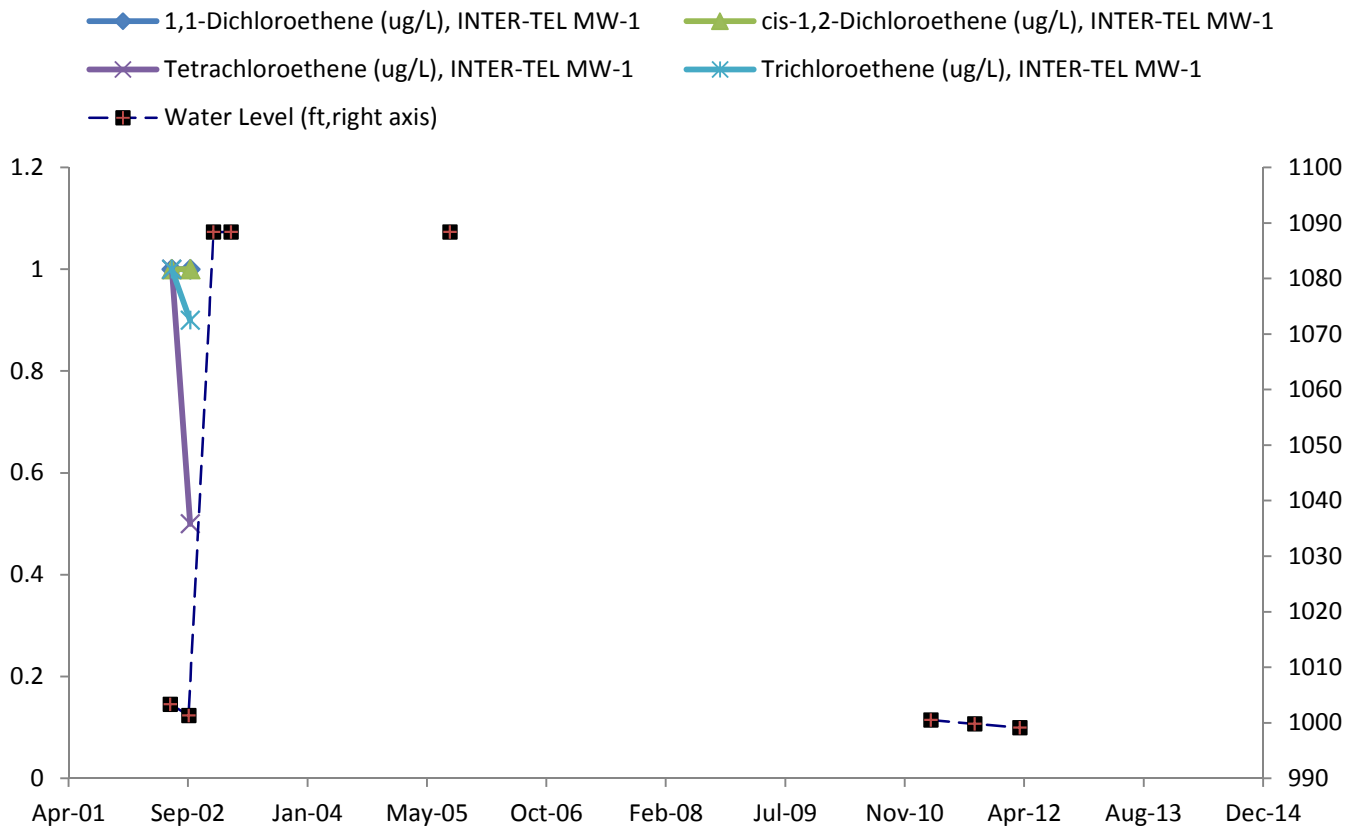

**Appendix E**
Historical Volatile Organic Compounds
EW-21
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



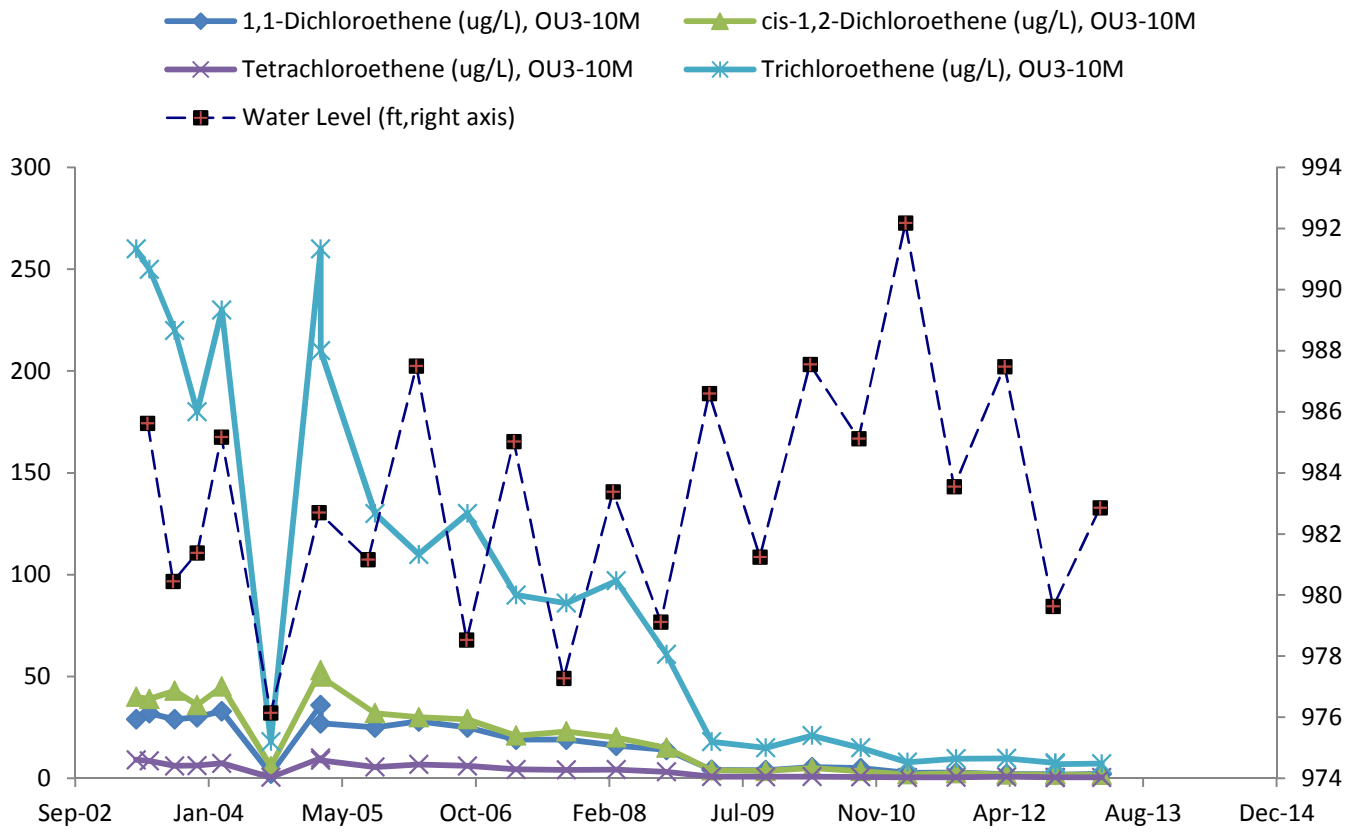

**Appendix E**
Historical Volatile Organic Compounds
EW-22S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



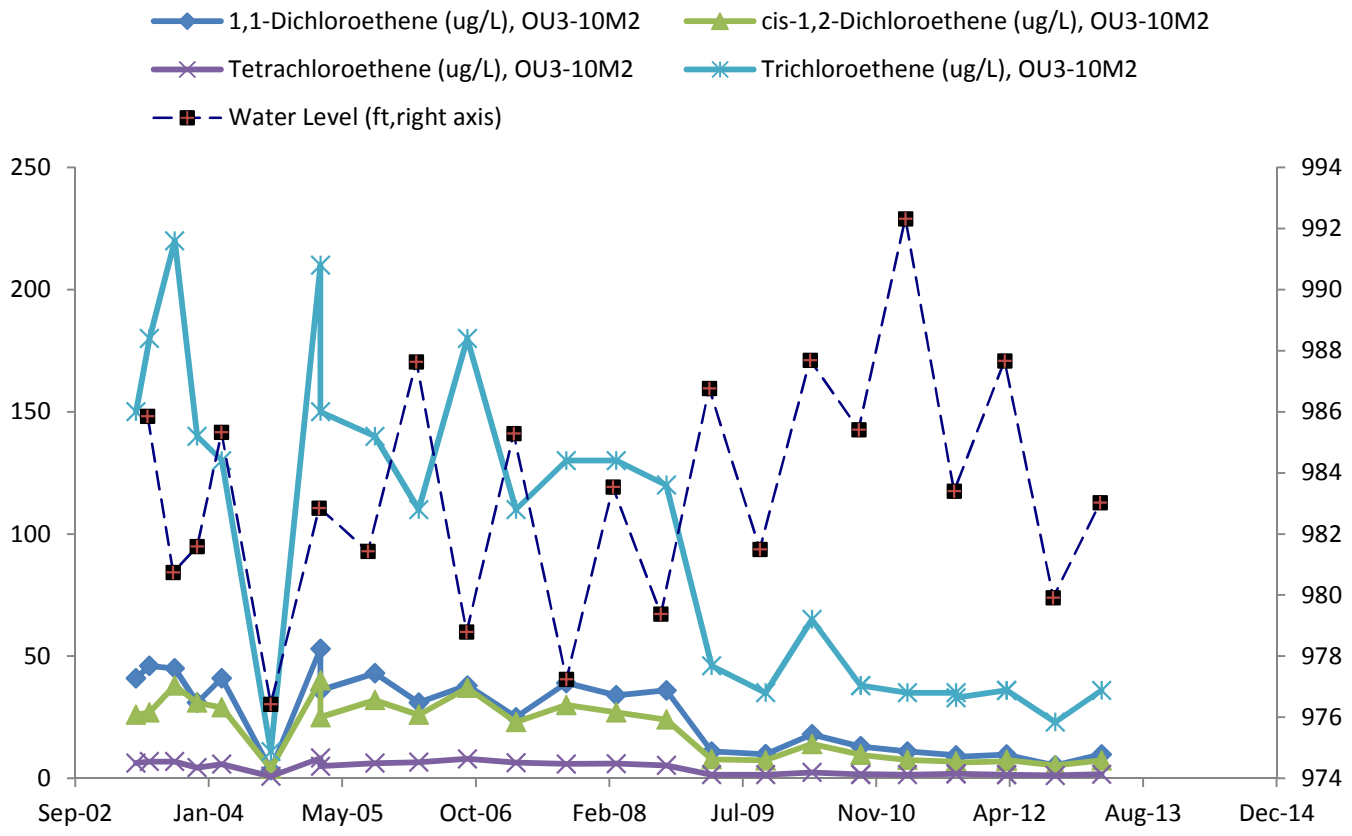

**Appendix E**
Historical Volatile Organic Compounds
EWOU3-10S-R
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



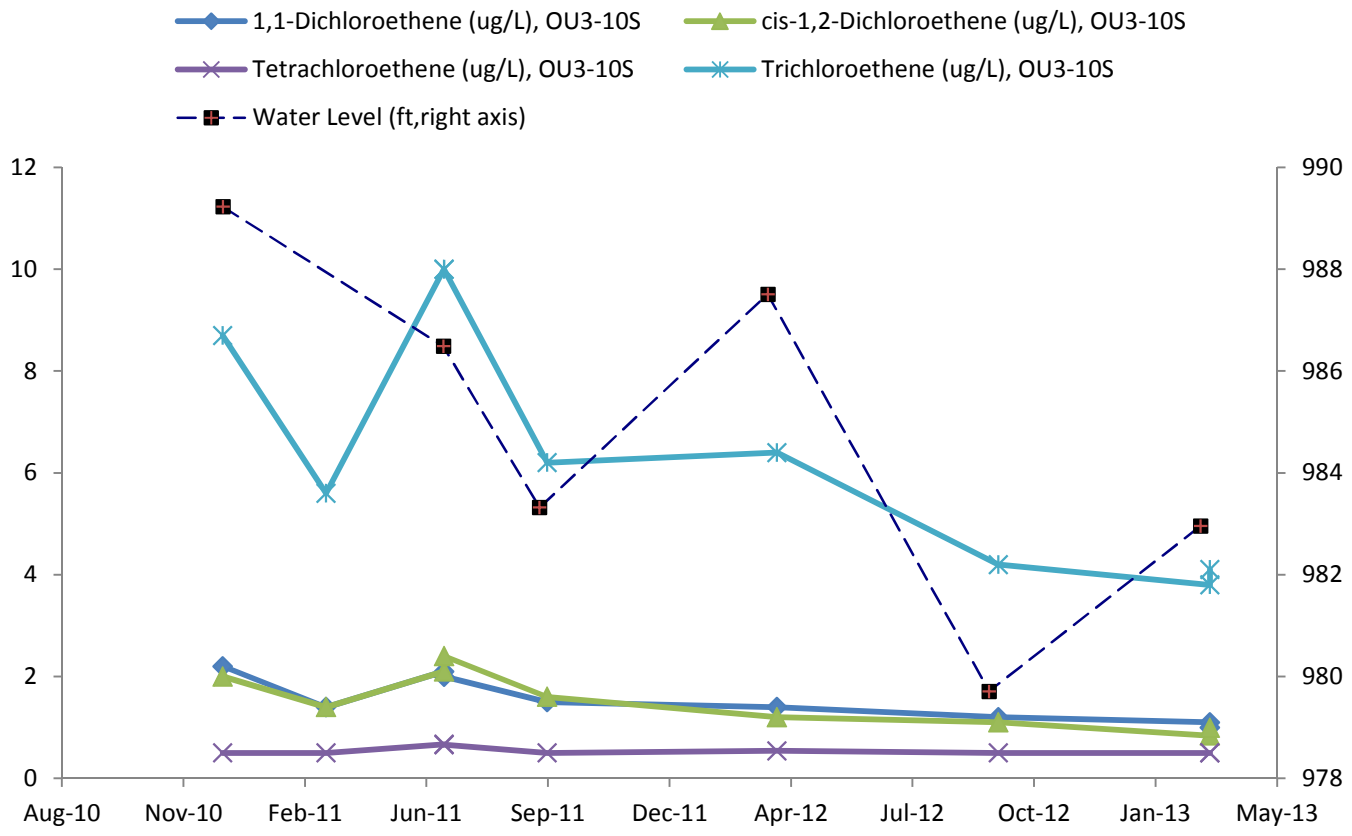

**Appendix E**
Historical Volatile Organic Compounds
INTER-TEL MW-1
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



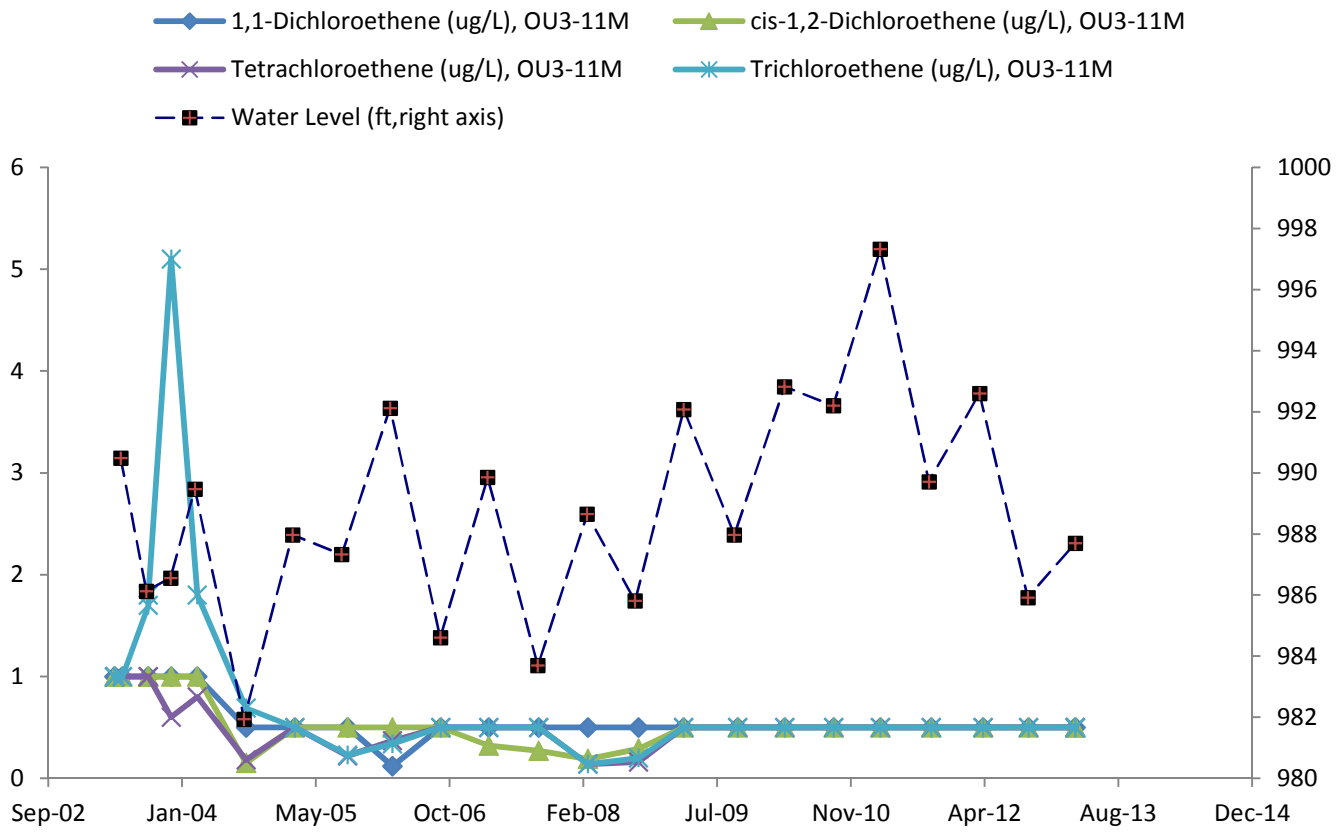

**Appendix E**
Historical Volatile Organic Compounds
OU3-10M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



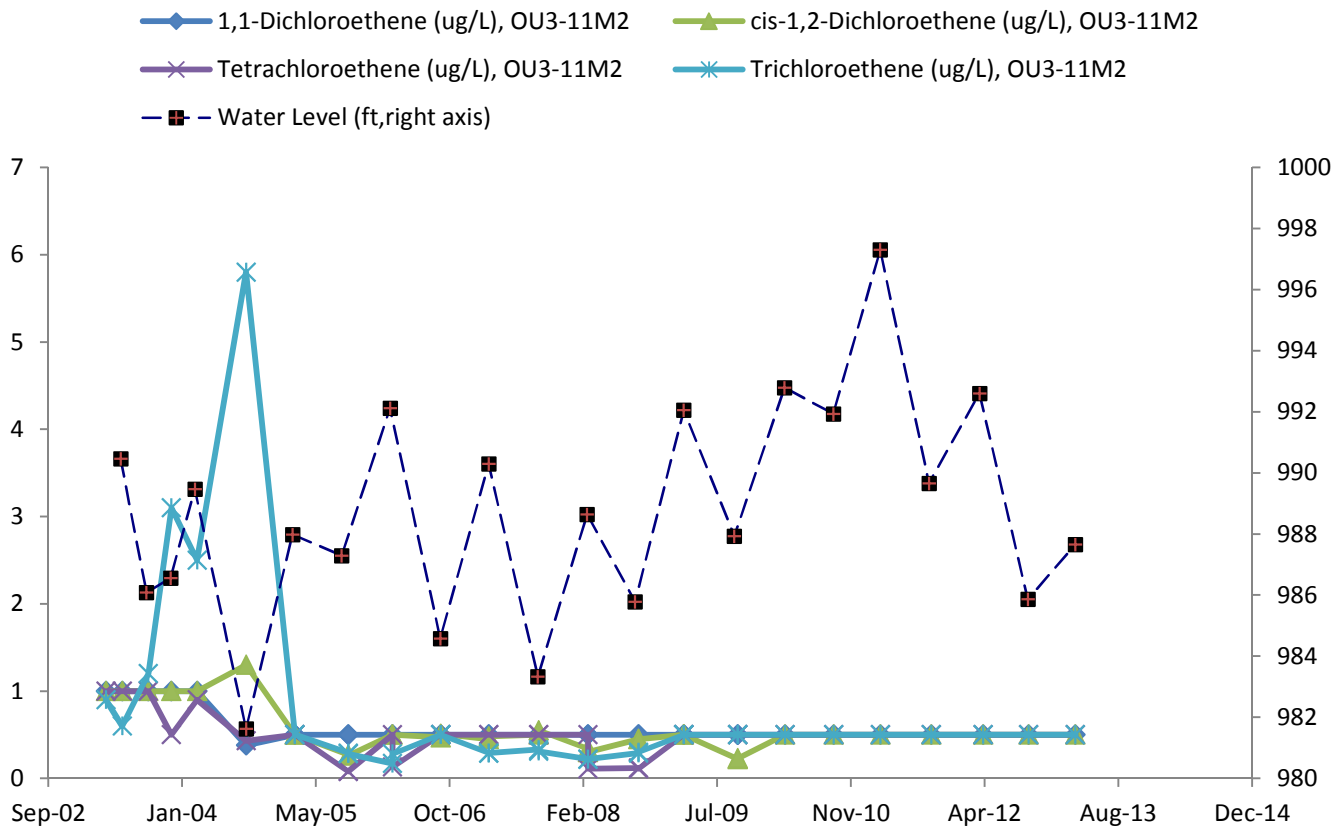

**Appendix E**
Historical Volatile Organic Compounds
OU3-10M2
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



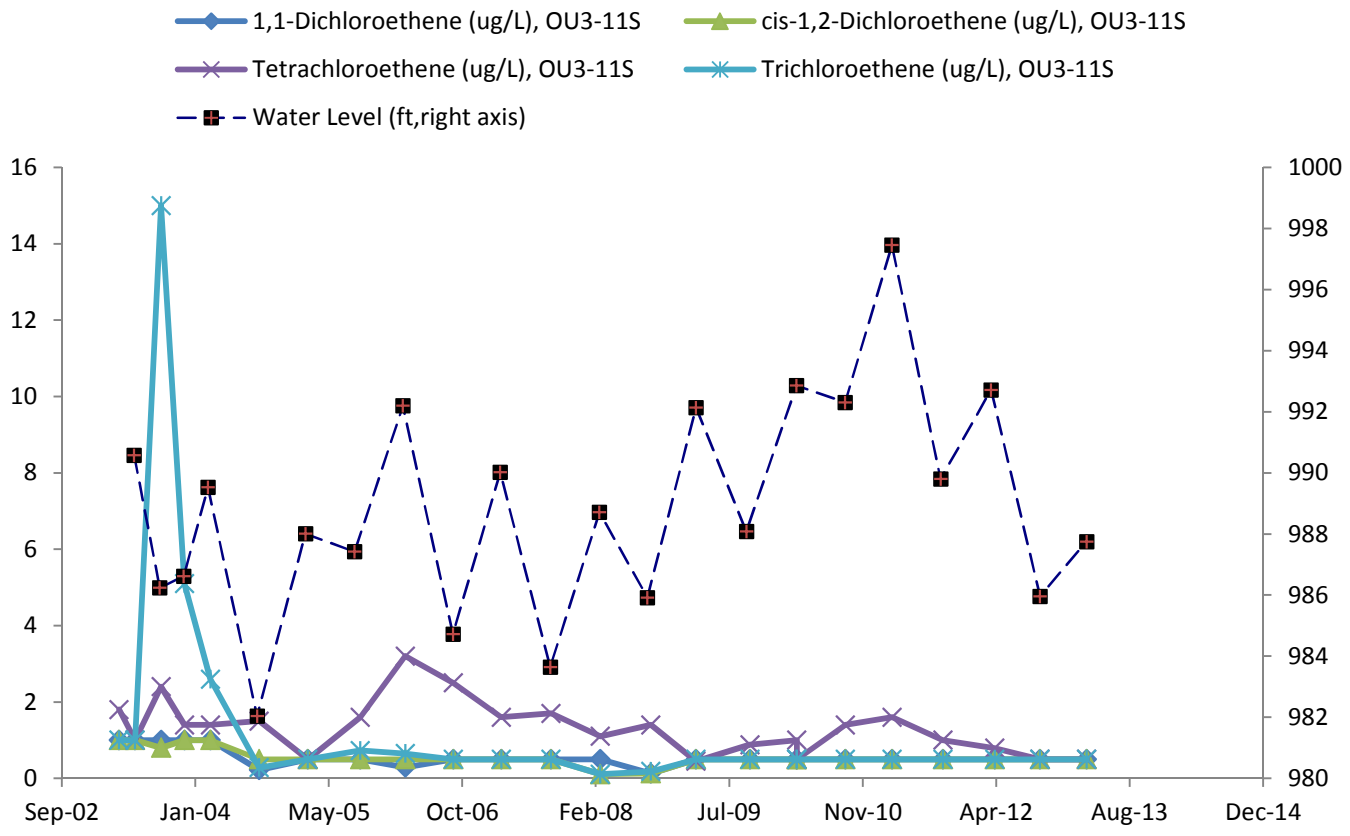

**Appendix E**
Historical Volatile Organic Compounds
OU3-10S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



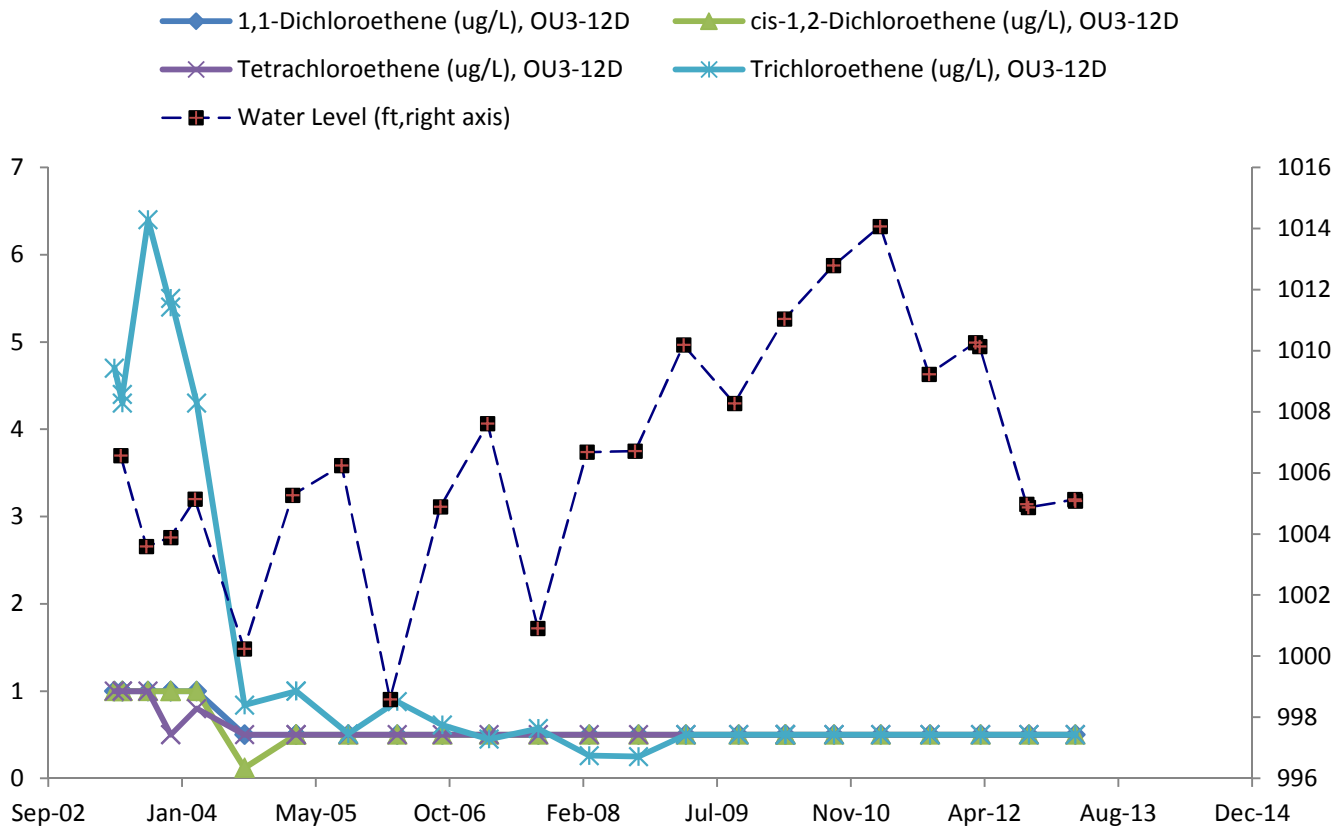

**Appendix E**
Historical Volatile Organic Compounds
OU3-11M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



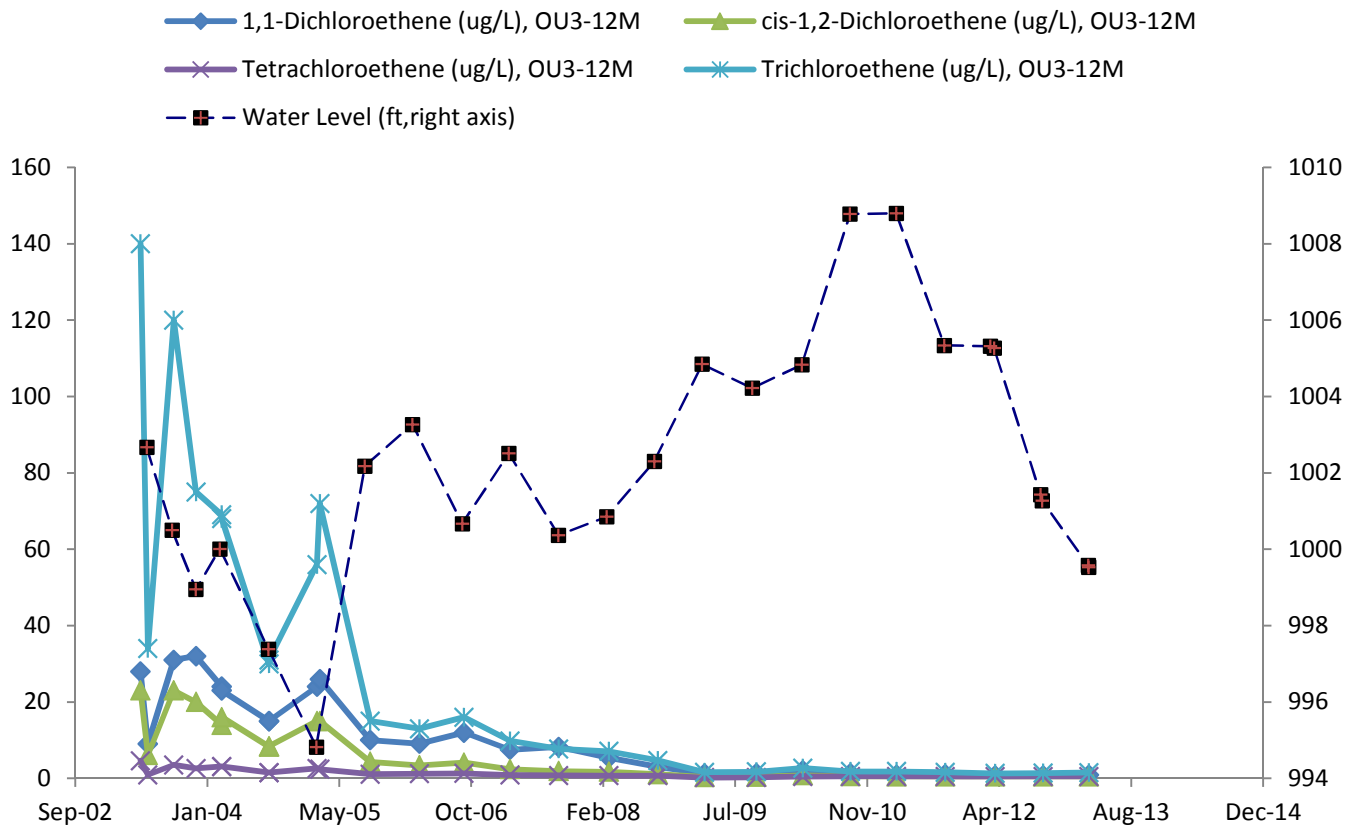

**Appendix E**
Historical Volatile Organic Compounds
OU3-11M2
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



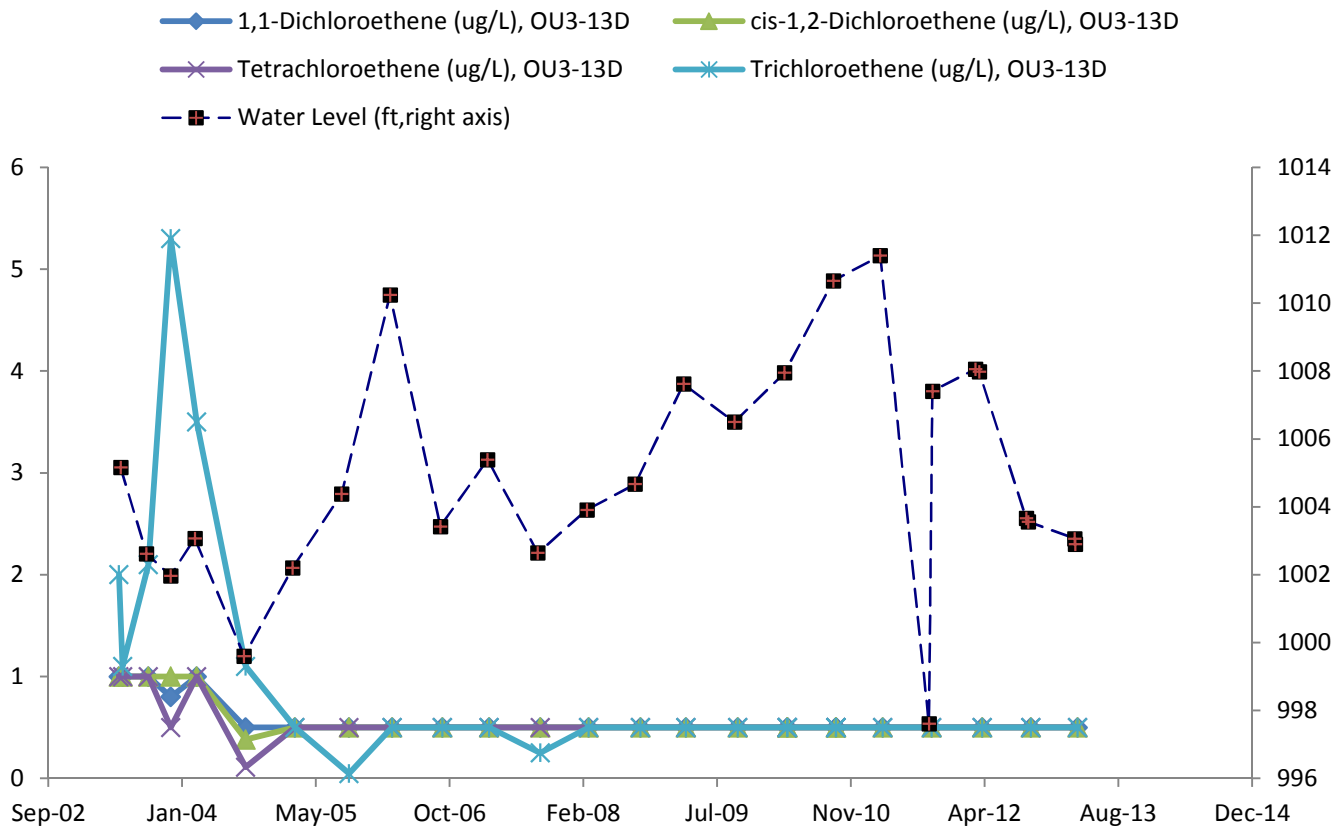

**Appendix E**
Historical Volatile Organic Compounds
OU3-11S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



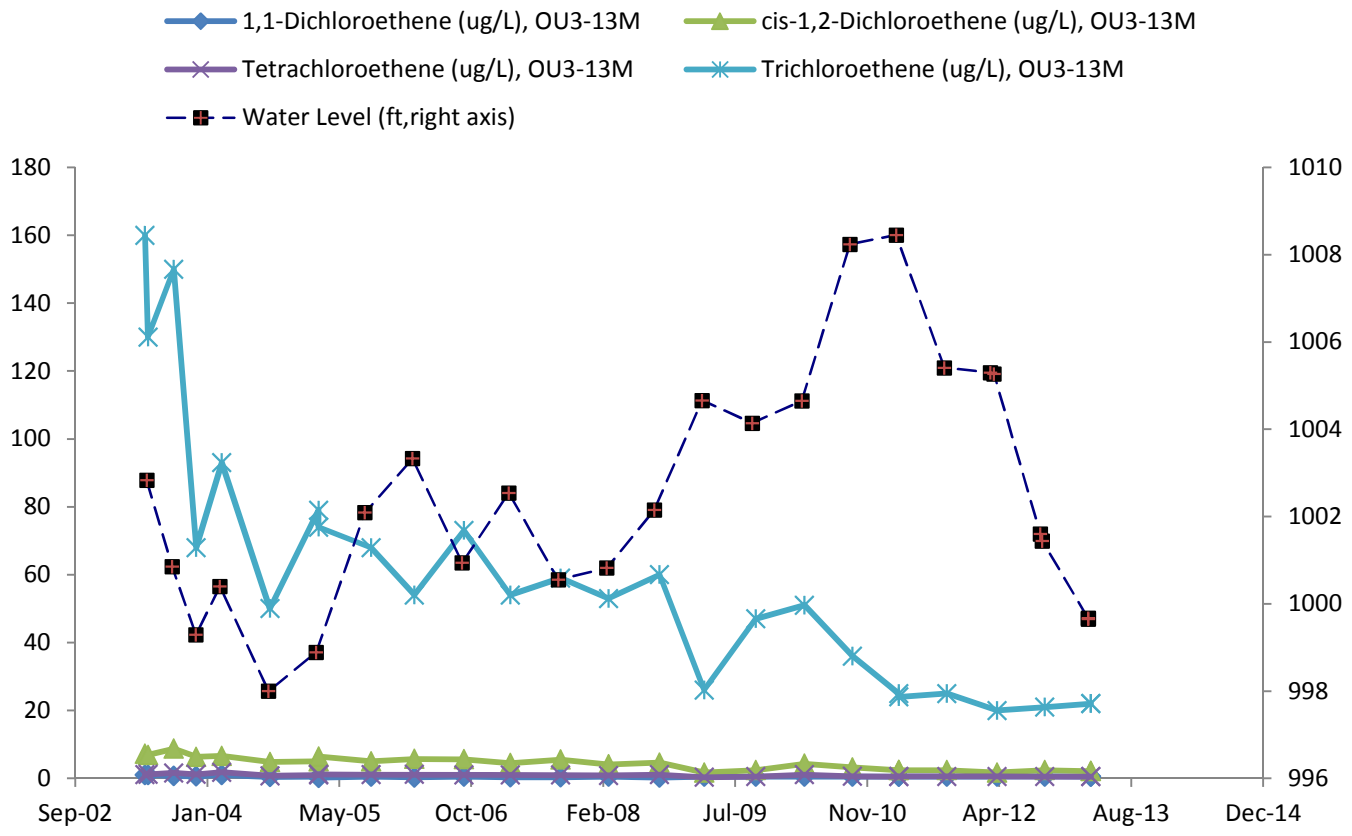

**Appendix E**
Historical Volatile Organic Compounds
OU3-12D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



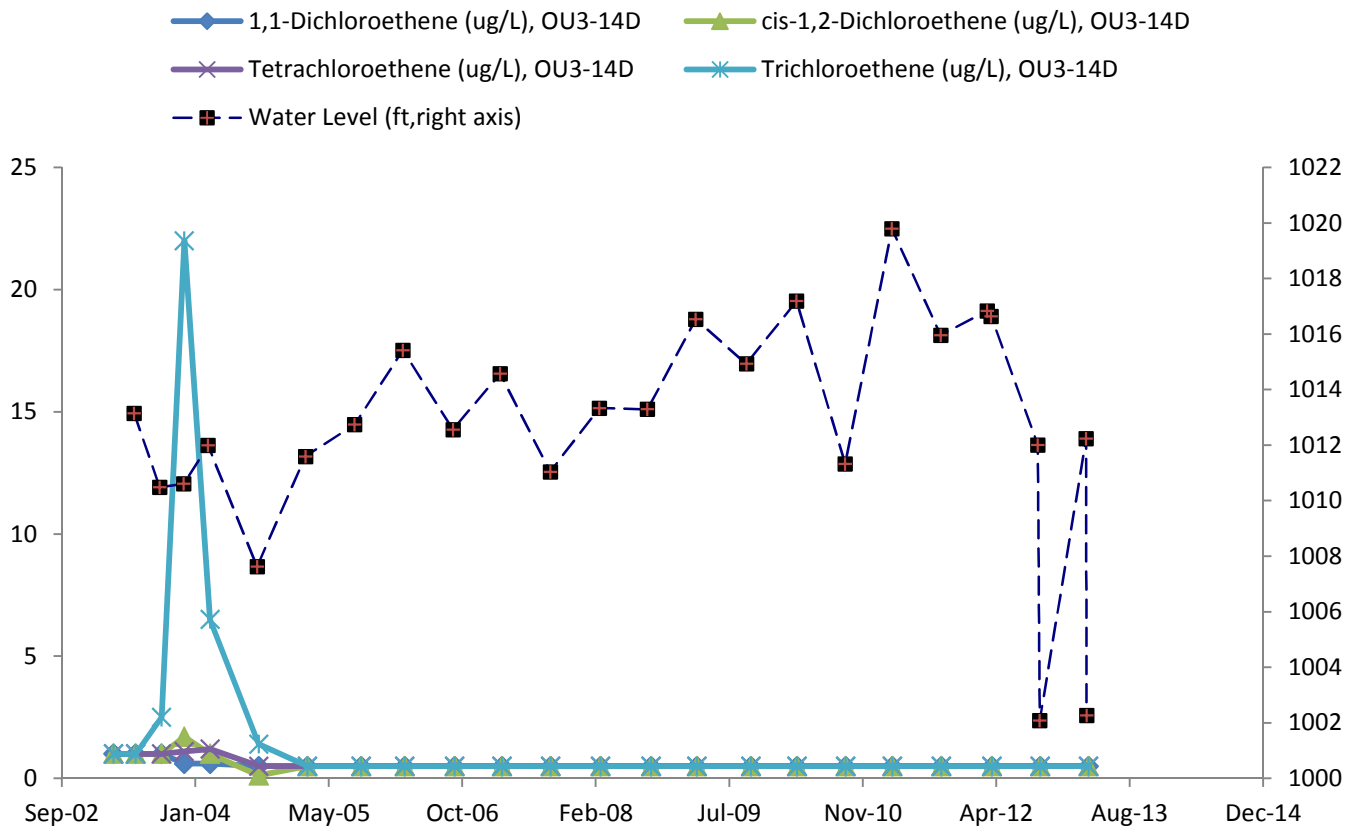

**Appendix E**
Historical Volatile Organic Compounds
OU3-12M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



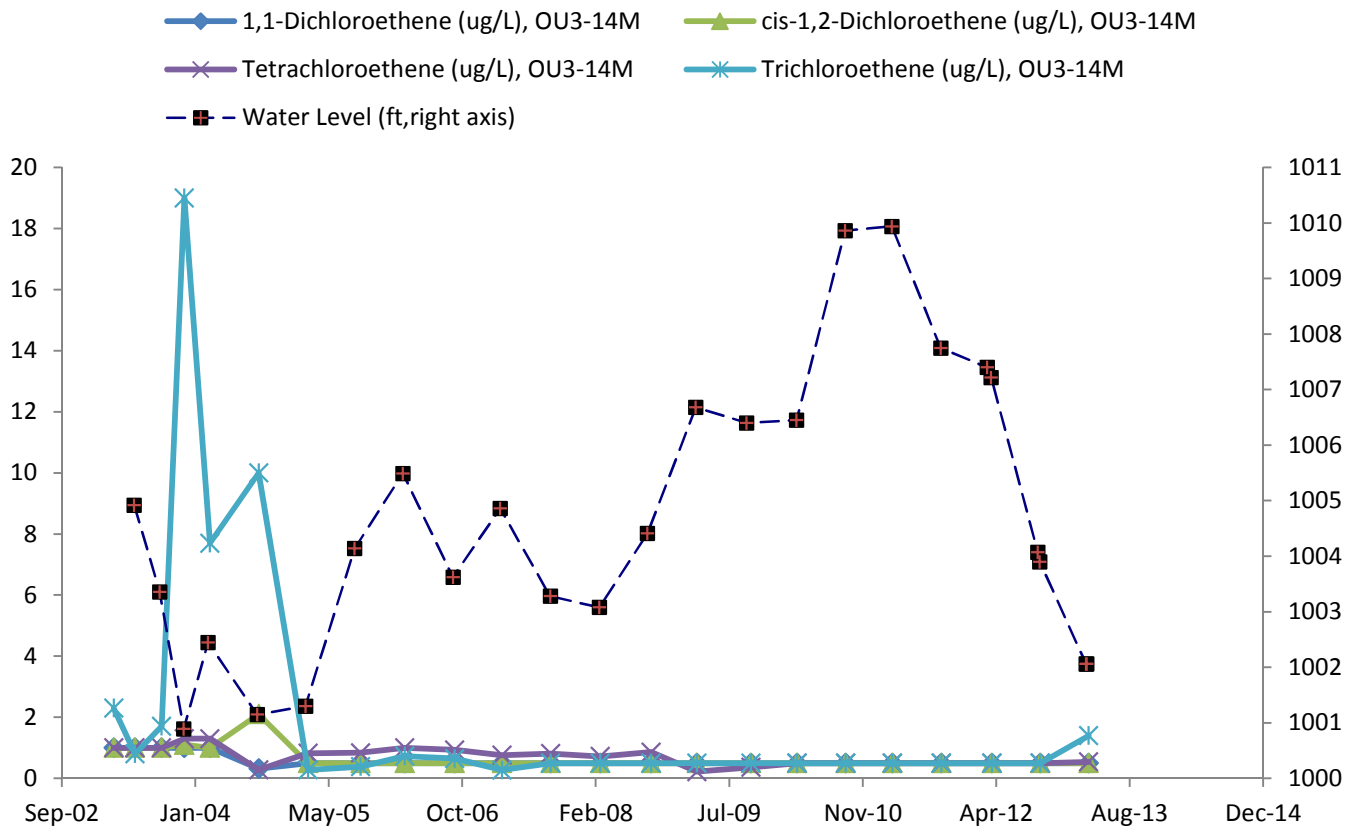

**Appendix E**
Historical Volatile Organic Compounds
OU3-13D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



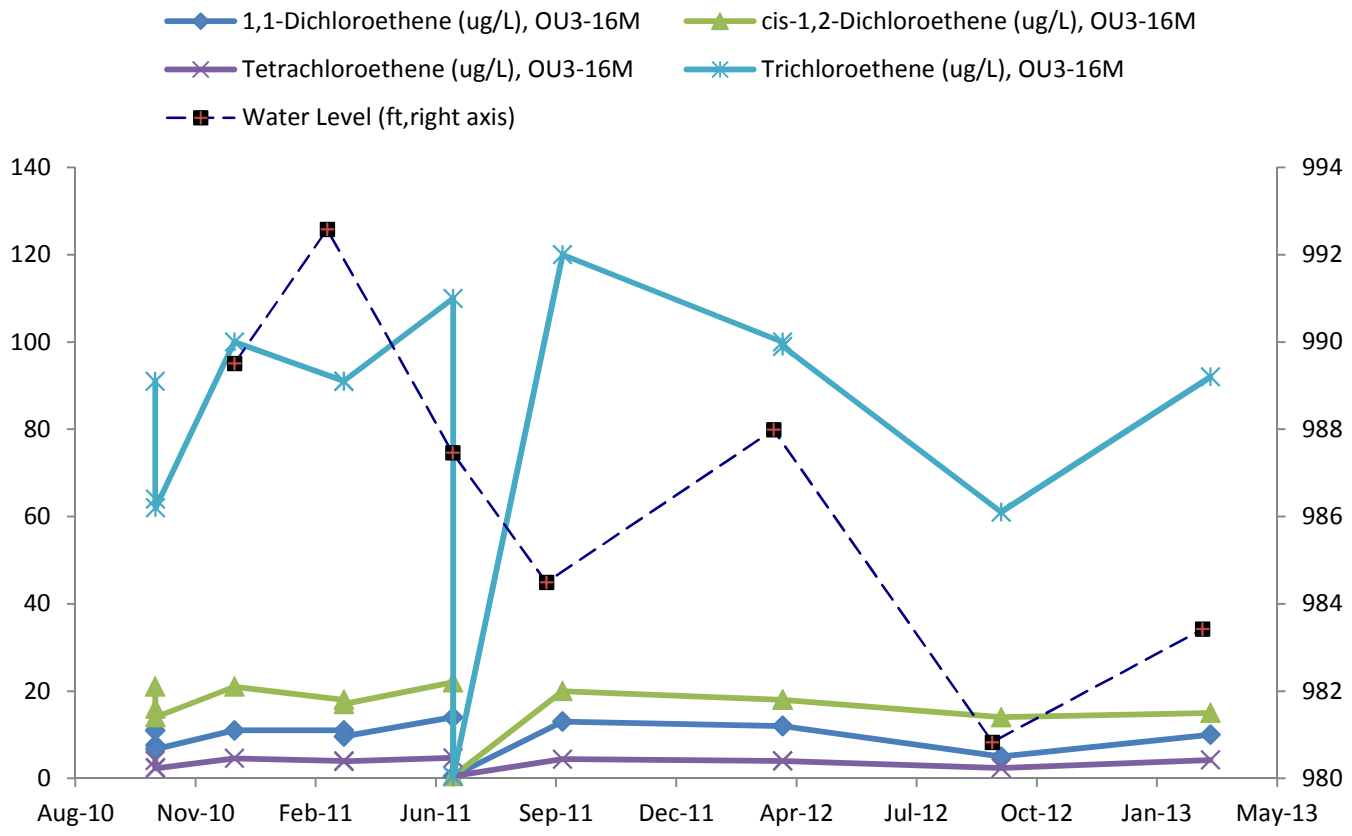

**Appendix E**
Historical Volatile Organic Compounds
OU3-13M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



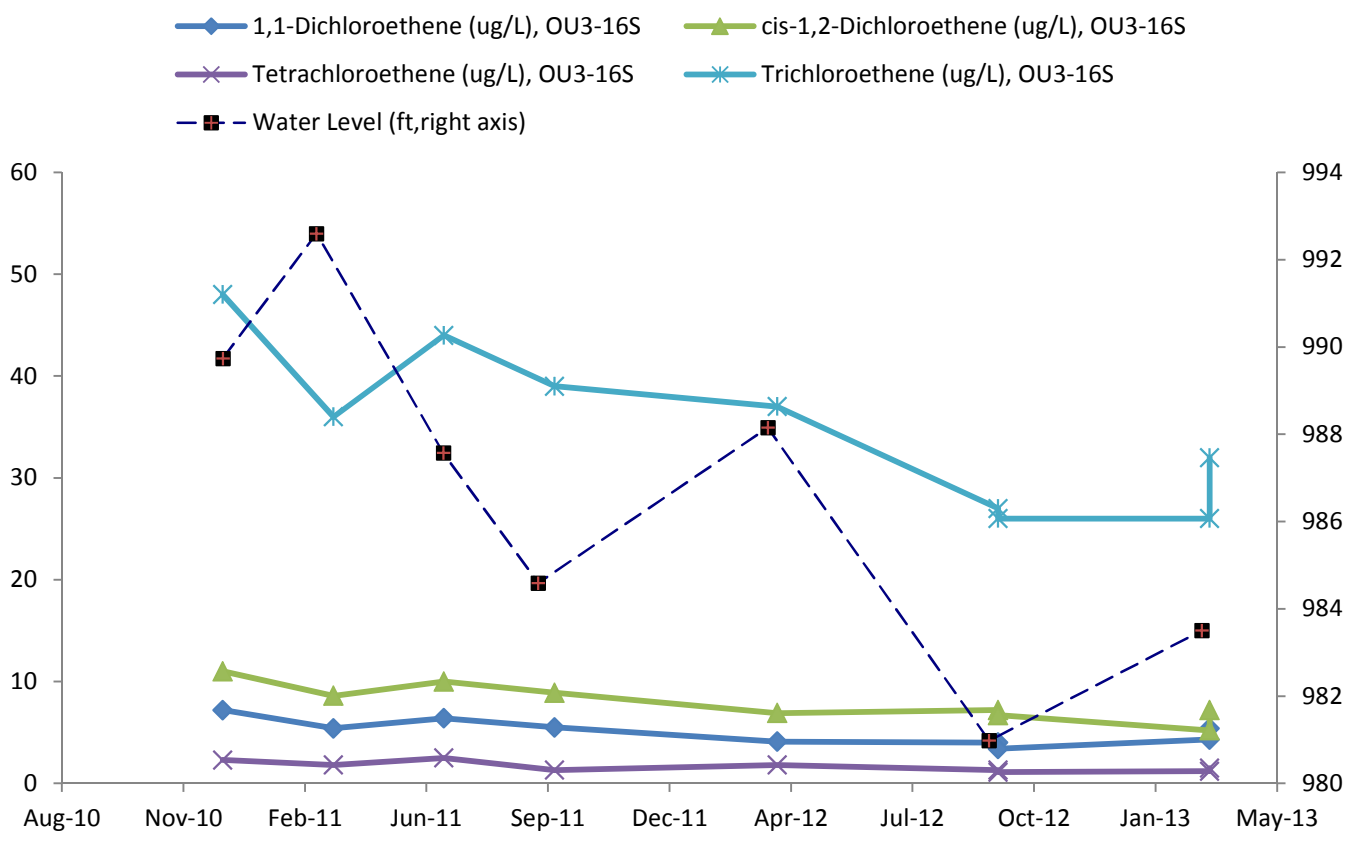

**Appendix E**
Historical Volatile Organic Compounds
OU3-14D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



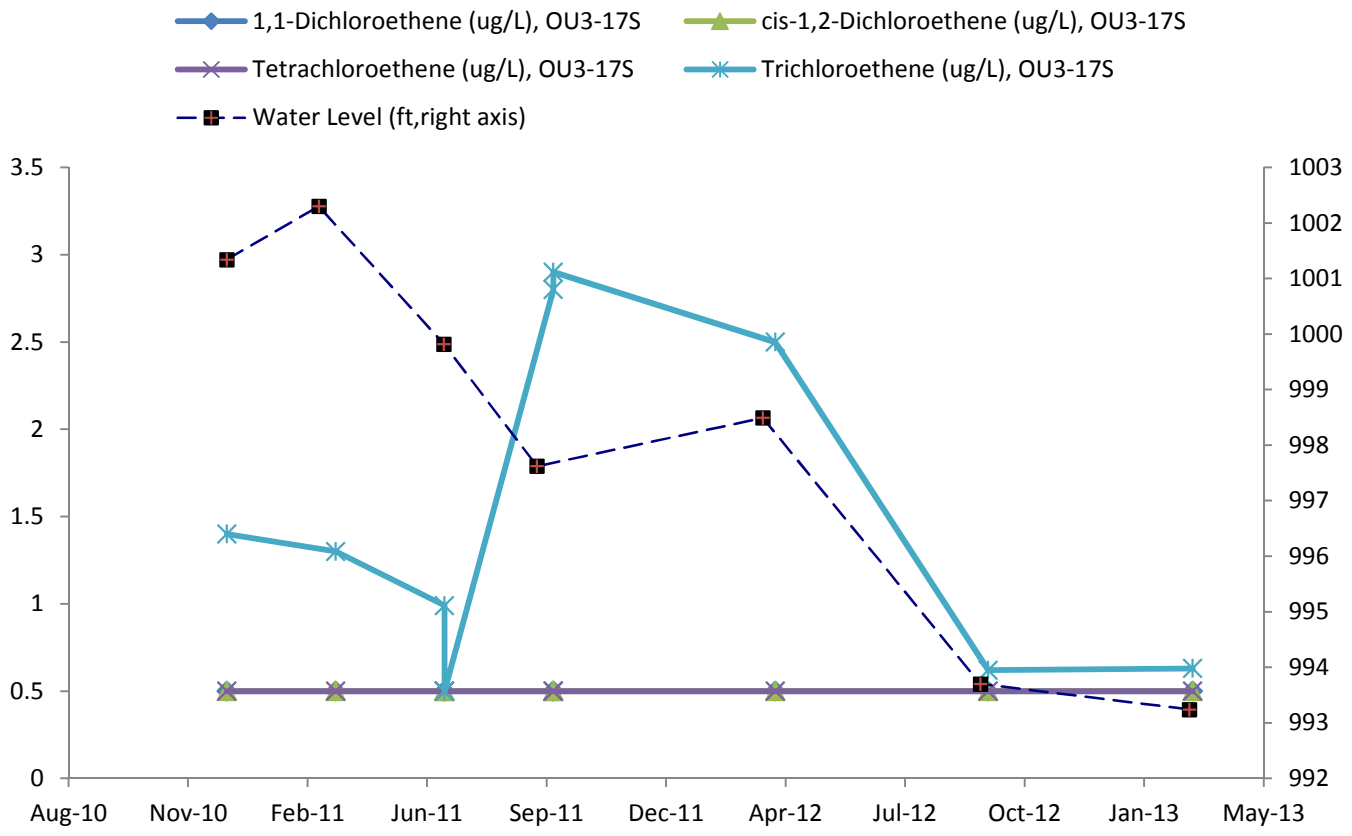

**Appendix E**
Historical Volatile Organic Compounds
OU3-14M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



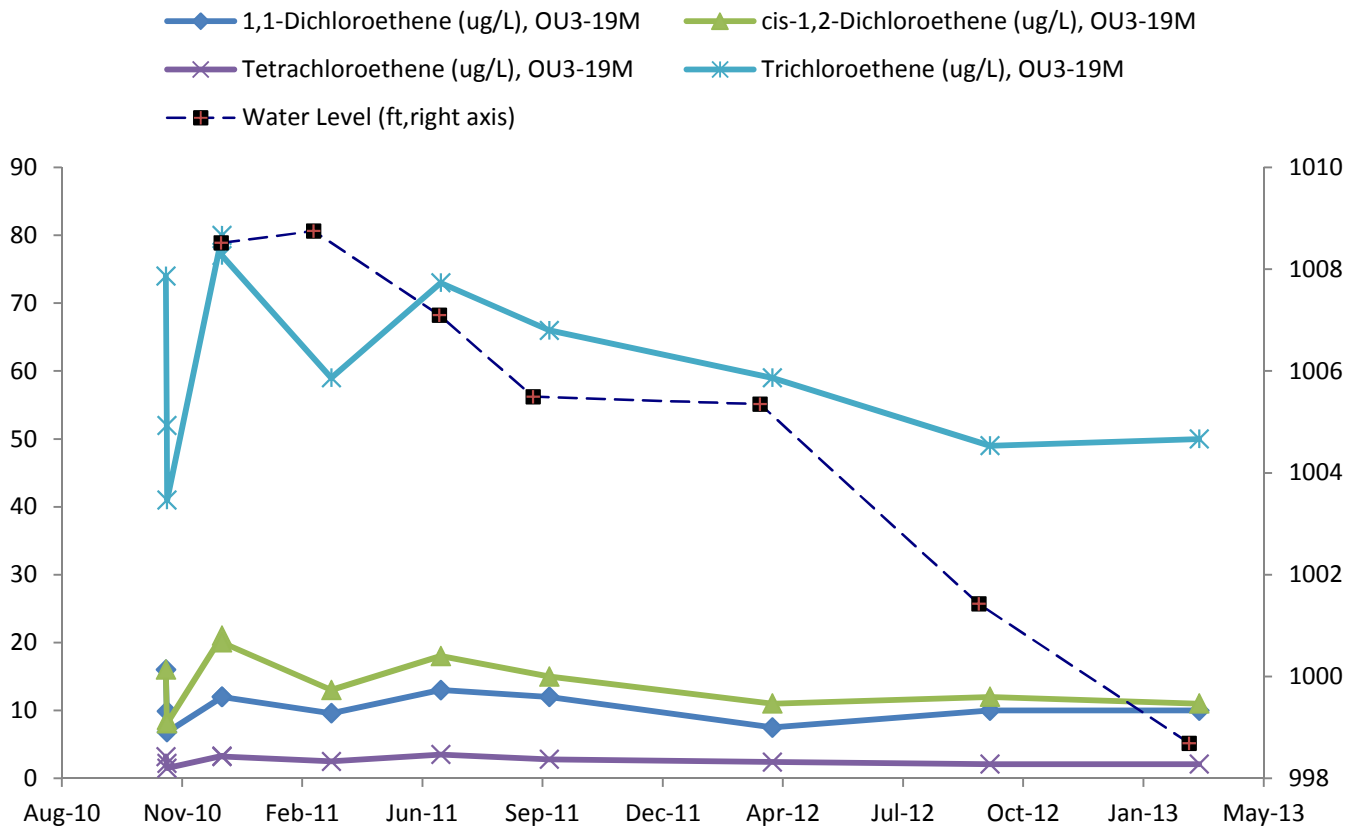

**Appendix E**
Historical Volatile Organic Compounds
OU3-16M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



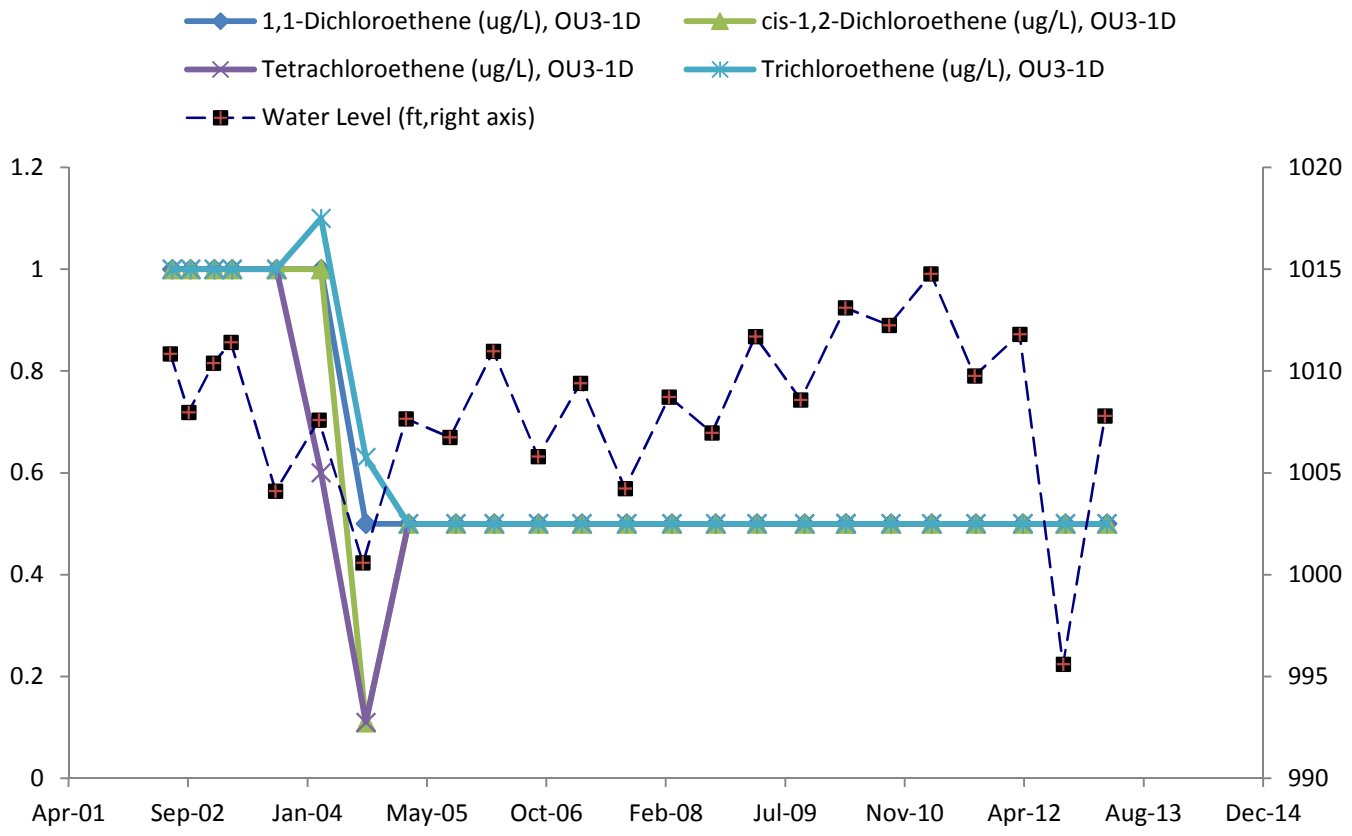

**Appendix E**
Historical Volatile Organic Compounds
OU3-16S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



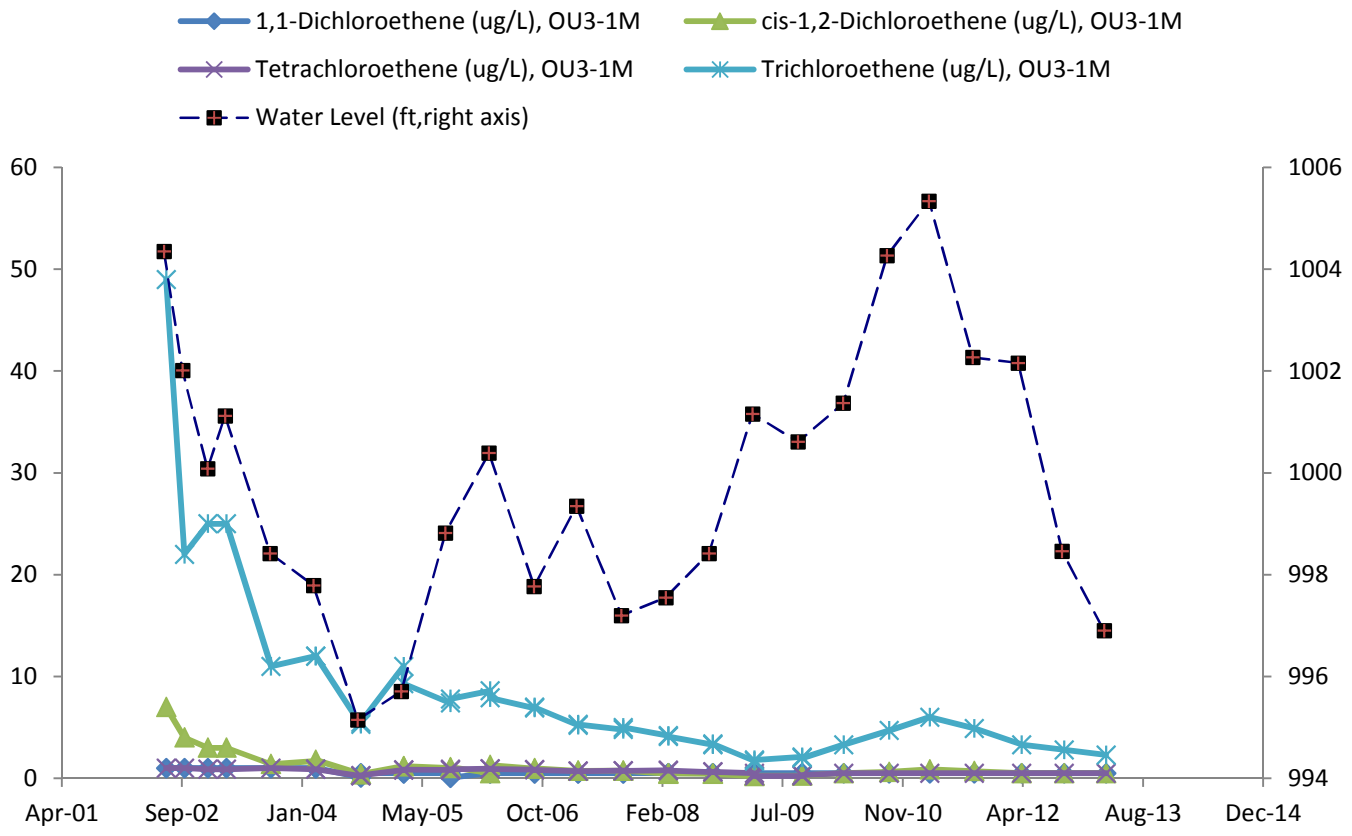

**Appendix E**
Historical Volatile Organic Compounds
OU3-17S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



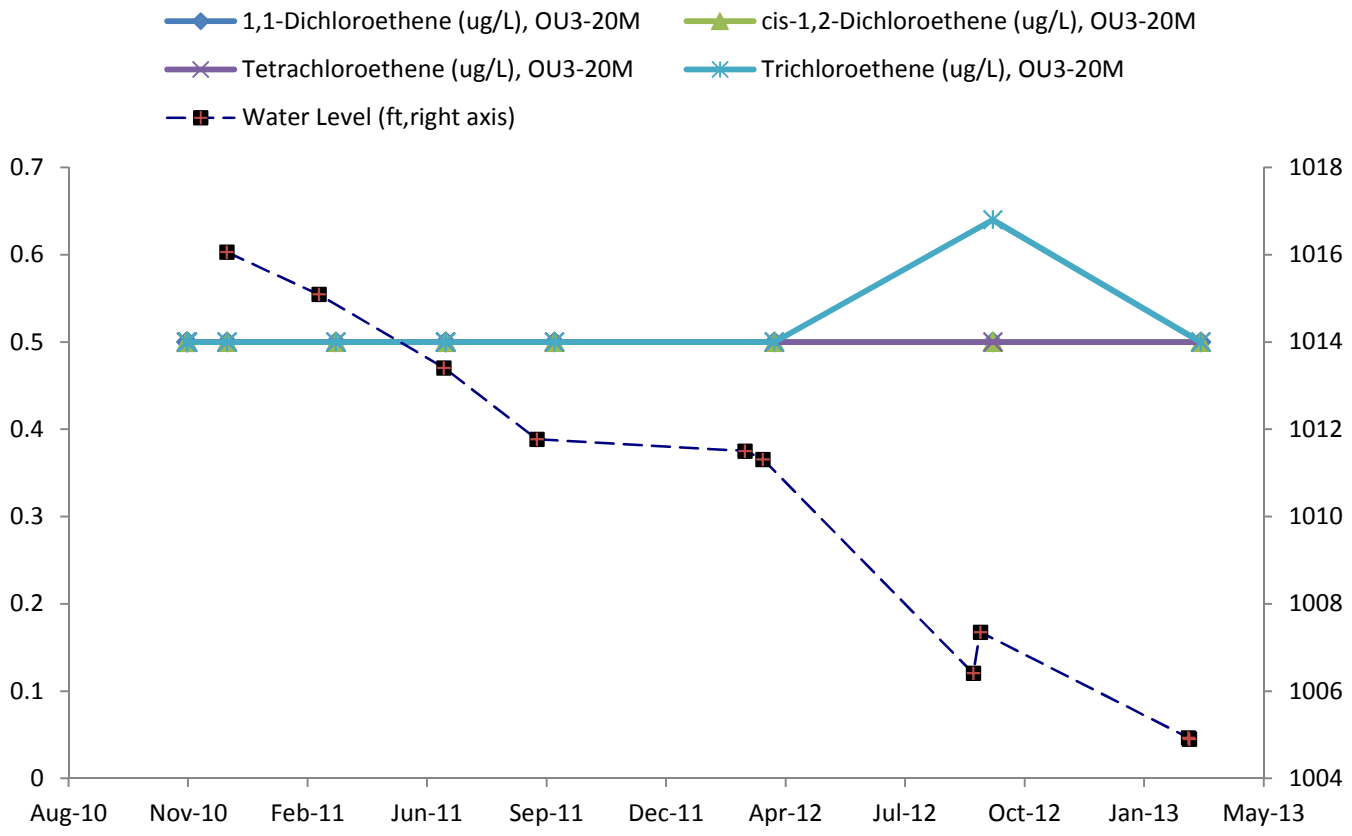

**Appendix E**
Historical Volatile Organic Compounds
OU3-19M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



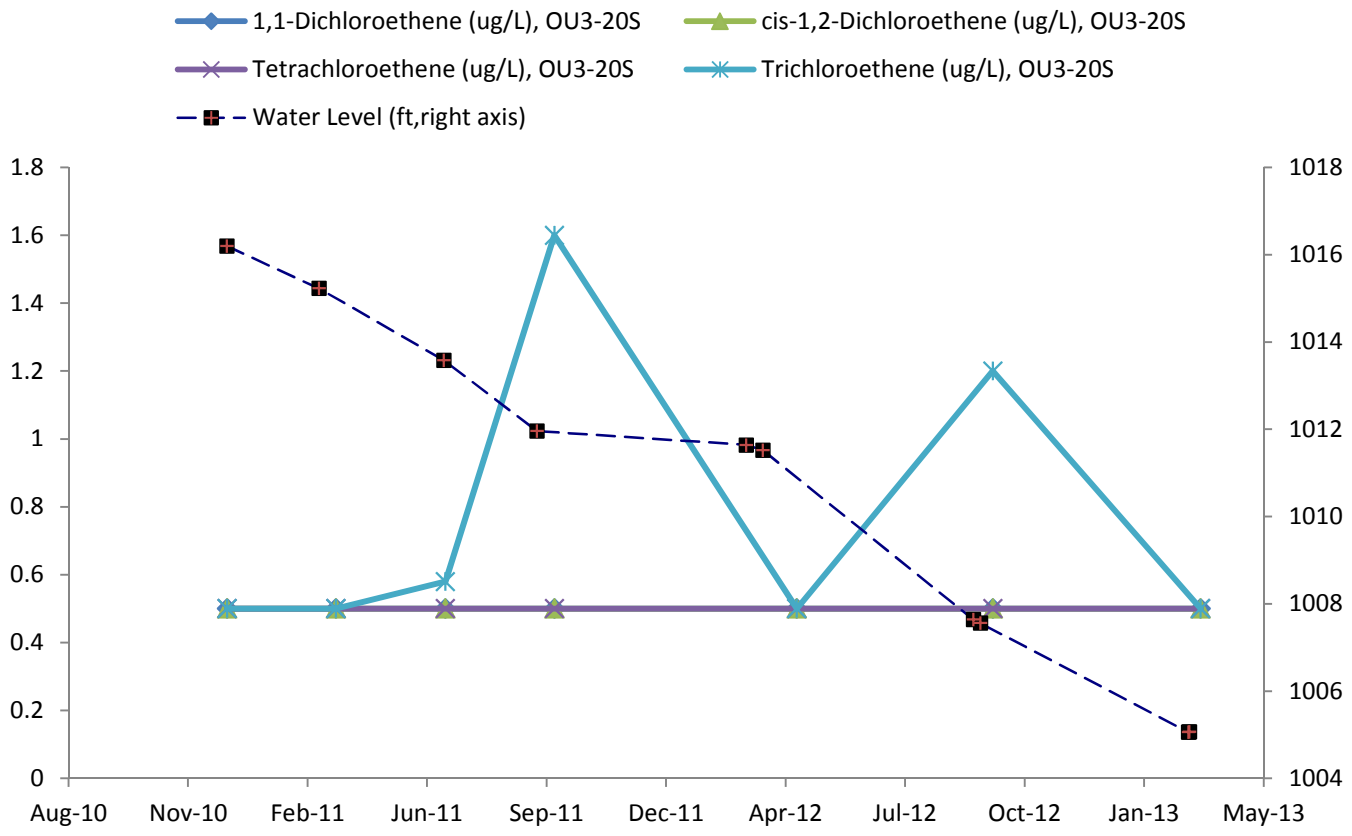

**Appendix E**
Historical Volatile Organic Compounds
OU3-1D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



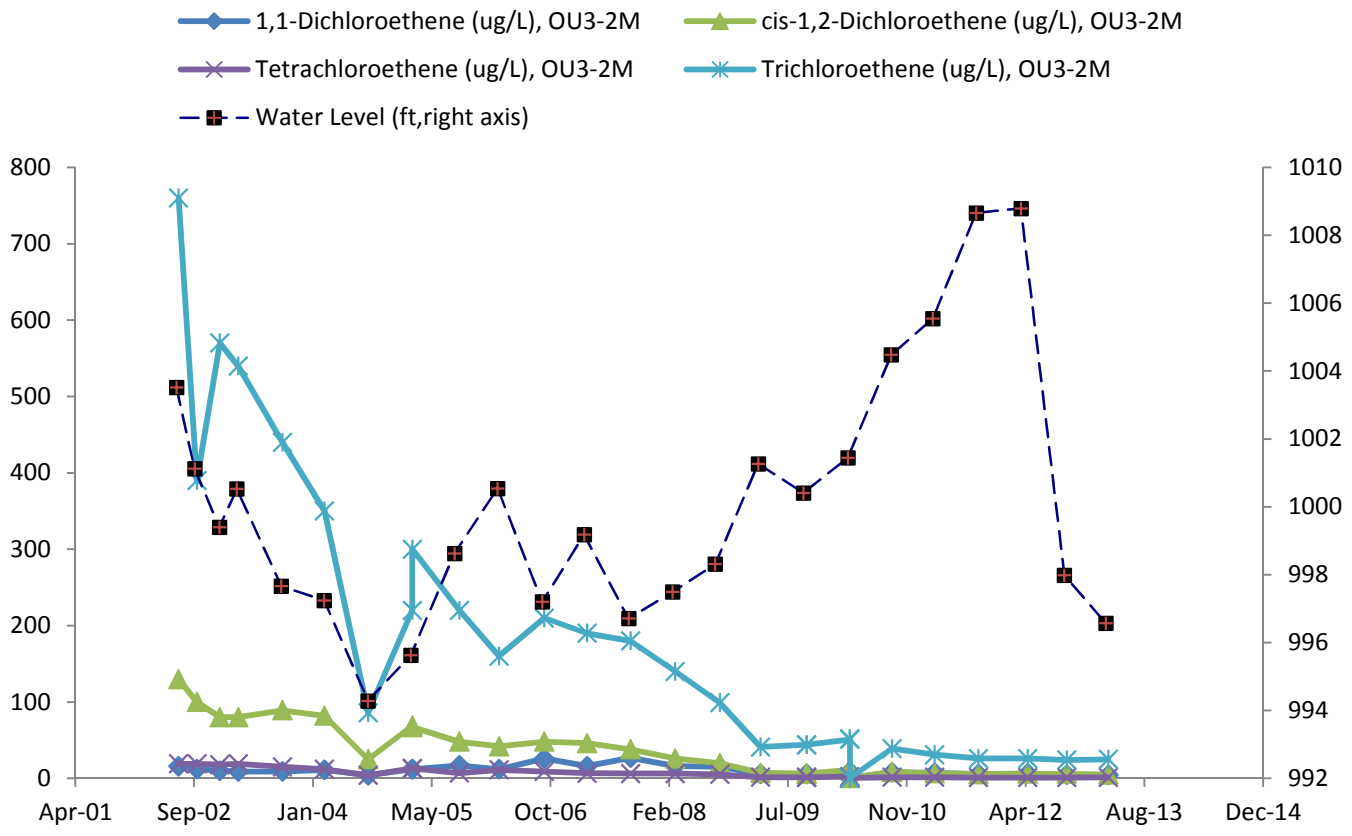

**Appendix E**
Historical Volatile Organic Compounds
OU3-1M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



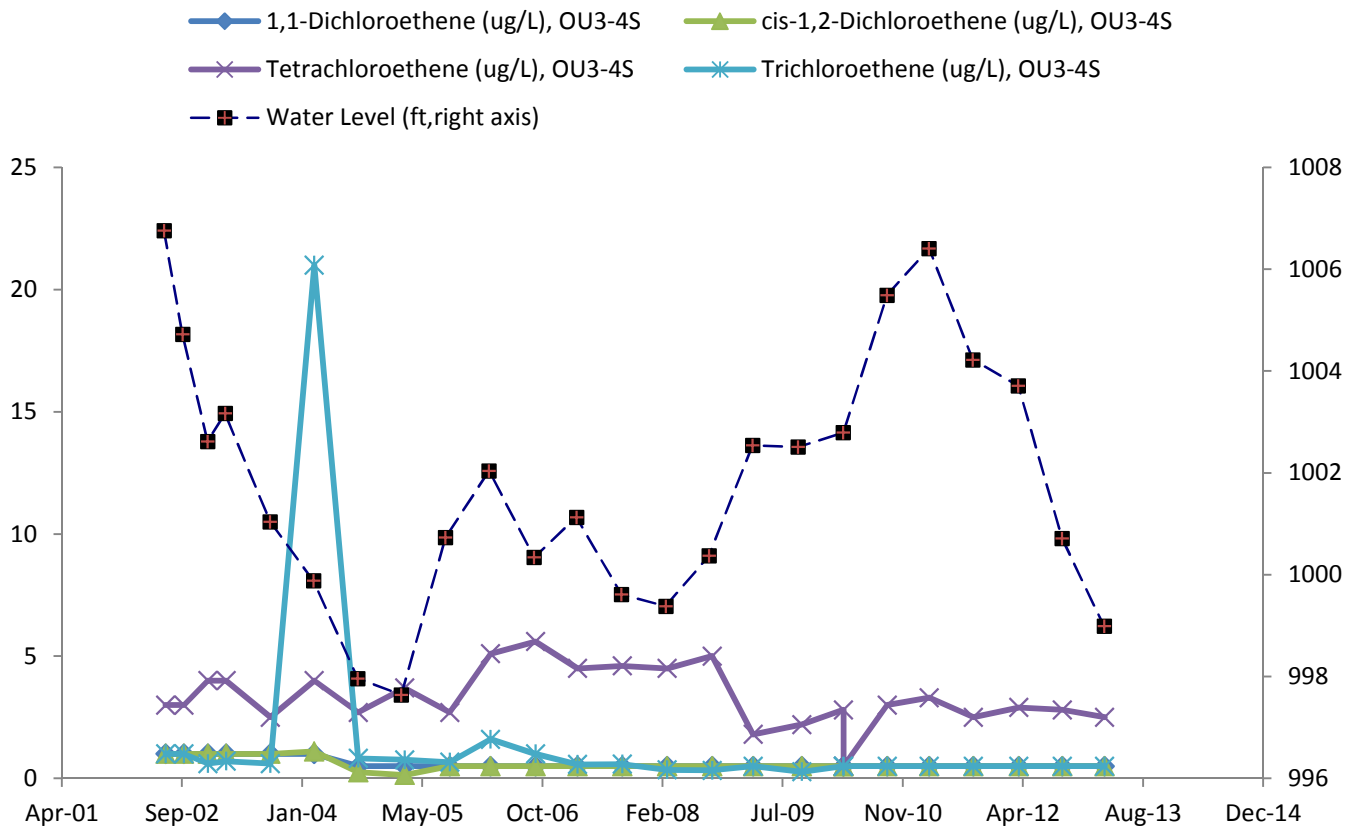

**Appendix E**
Historical Volatile Organic Compounds
OU3-20M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



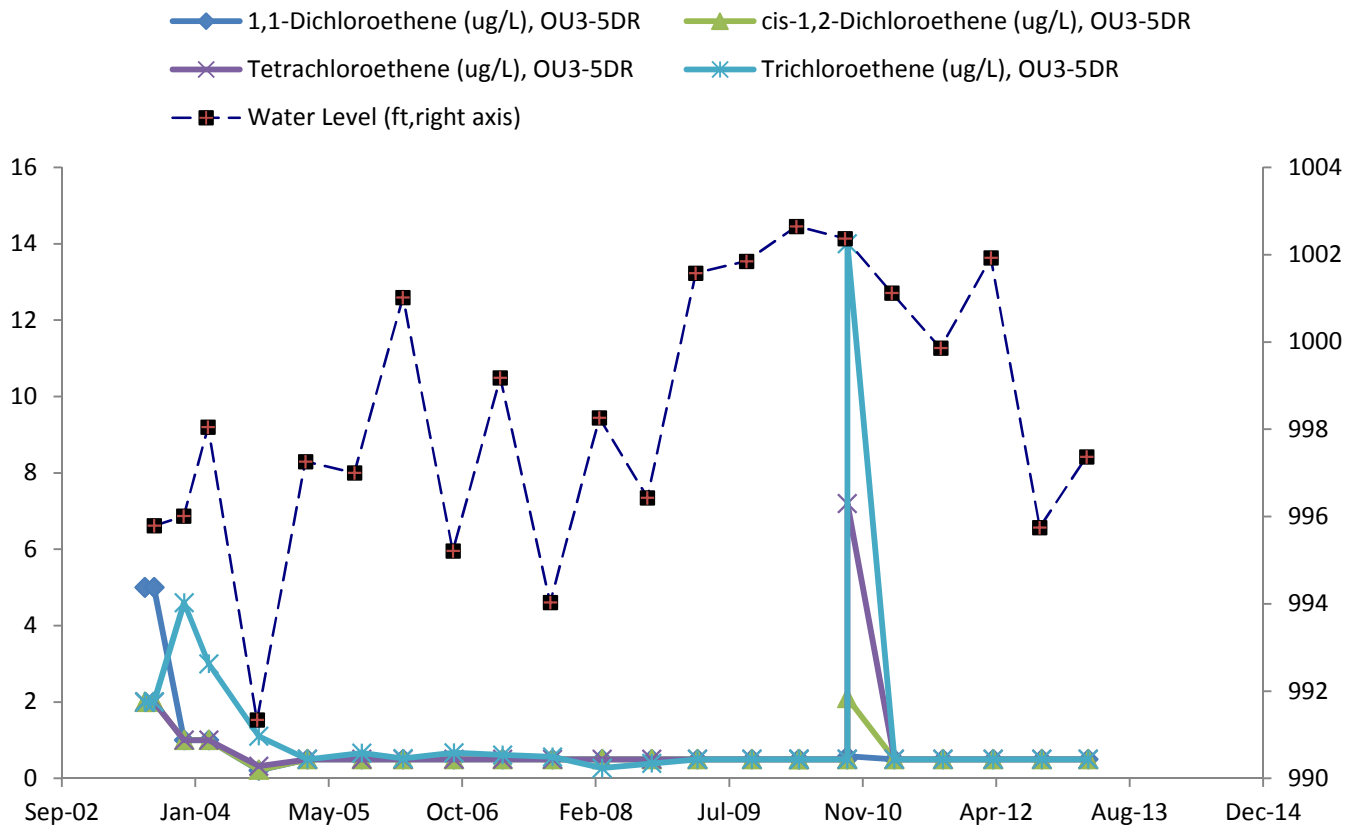

**Appendix E**
Historical Volatile Organic Compounds
OU3-20S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



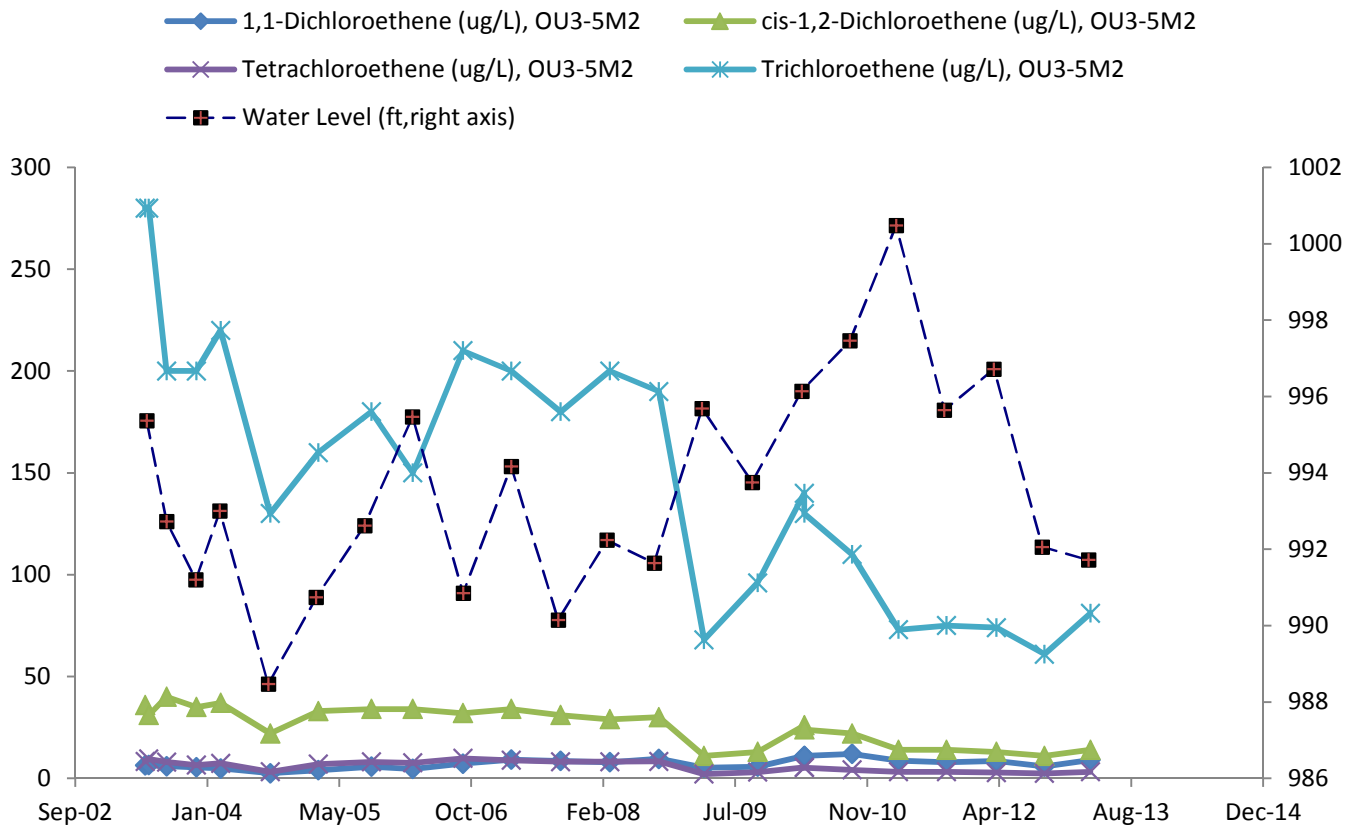

**Appendix E**
Historical Volatile Organic Compounds
OU3-2M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



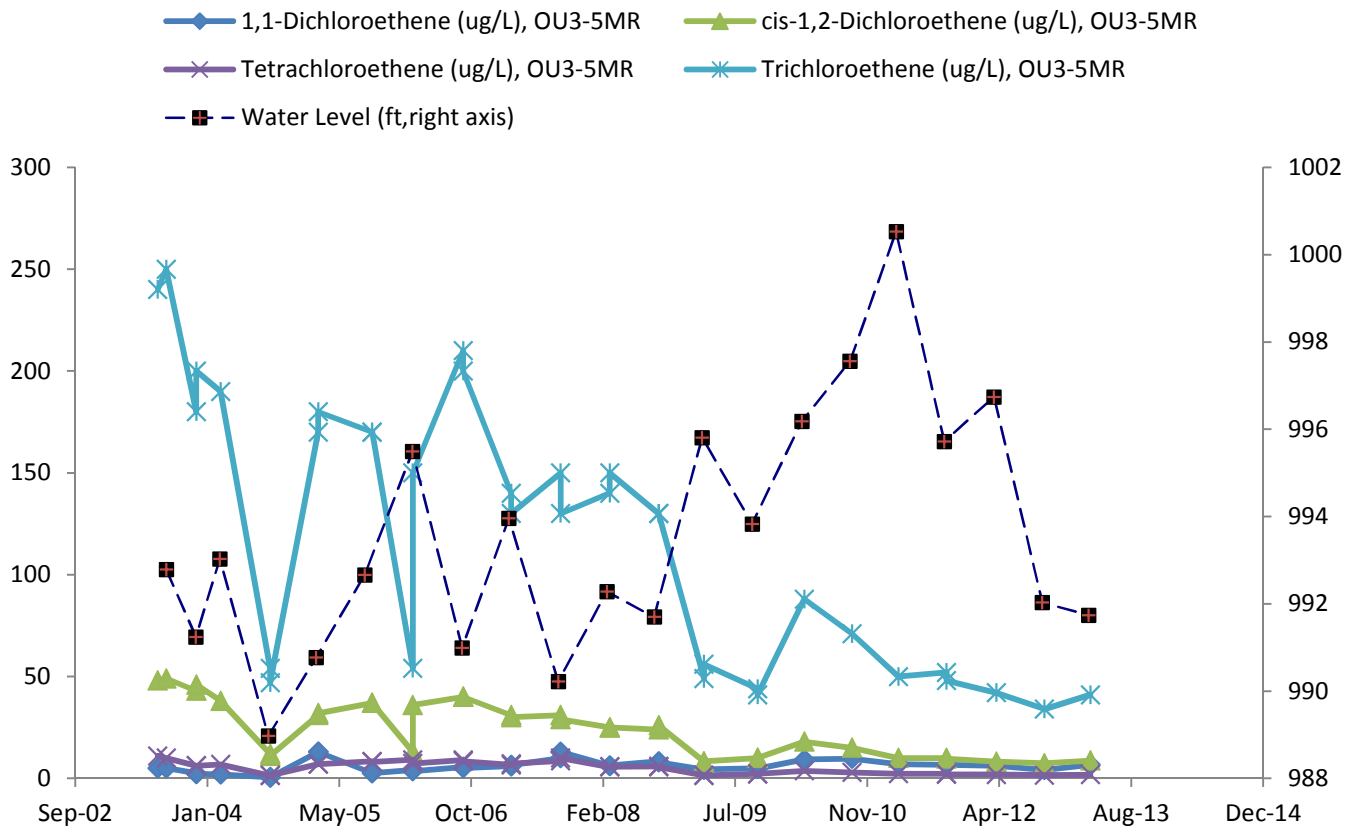

**Appendix E**
Historical Volatile Organic Compounds
OU3-4S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



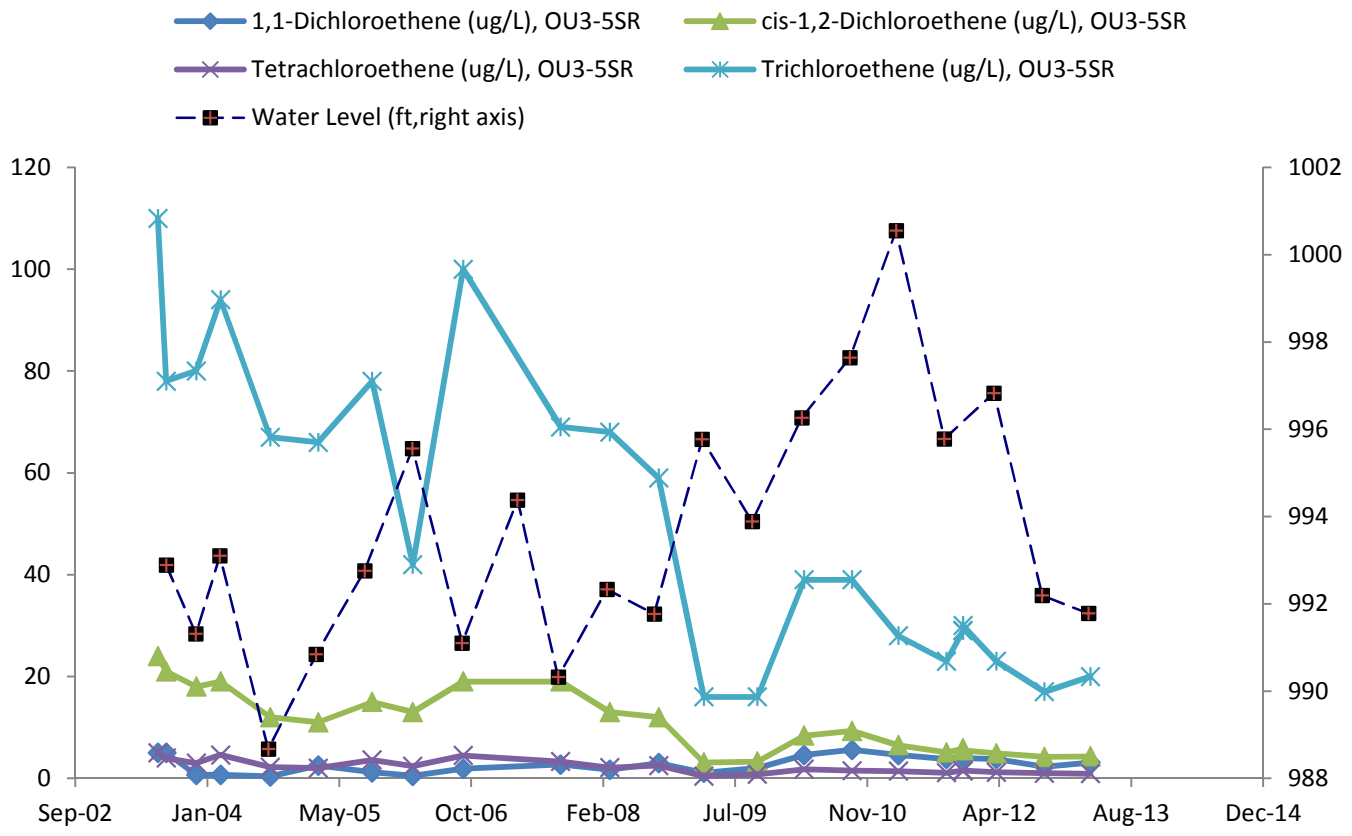

**Appendix E**
Historical Volatile Organic Compounds
OU3-5DR
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



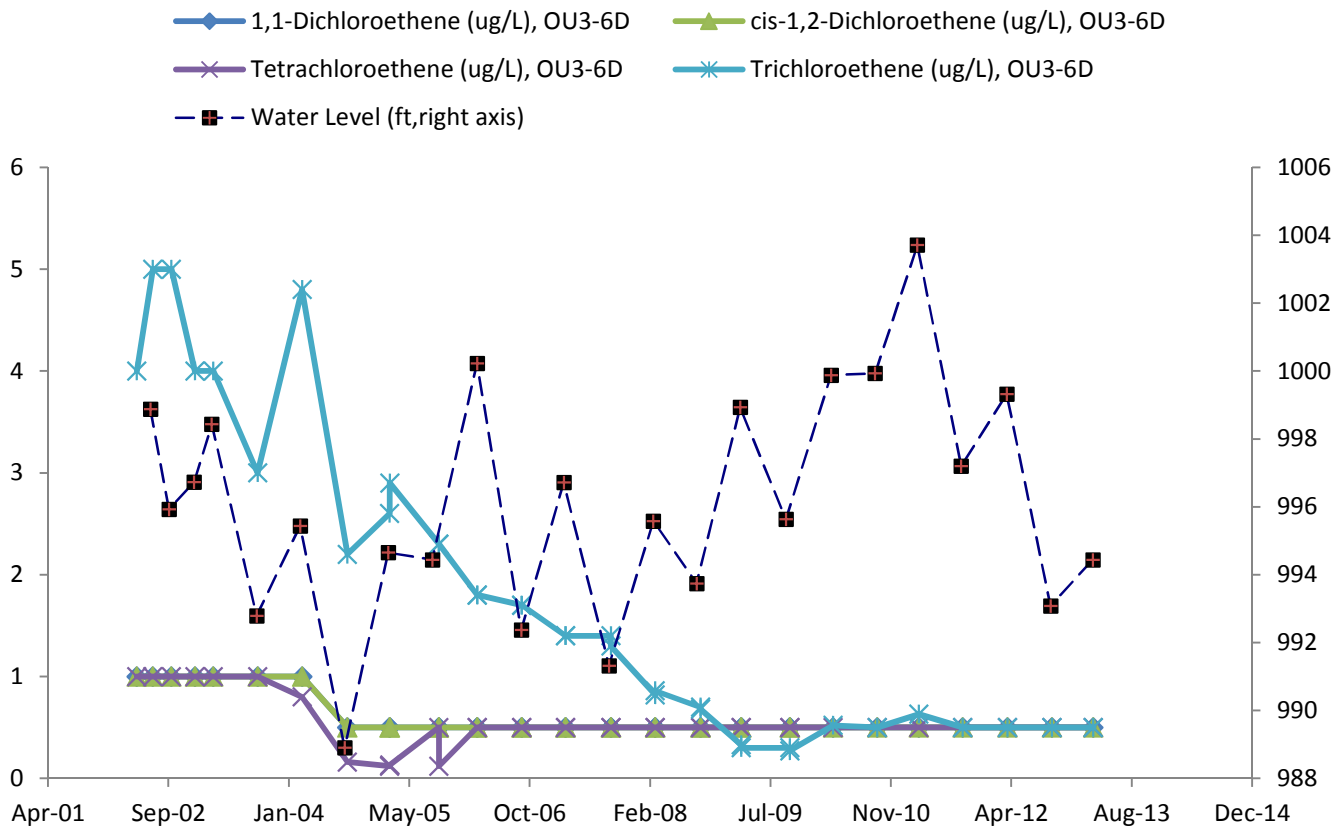

**Appendix E**
Historical Volatile Organic Compounds
OU3-5M2
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



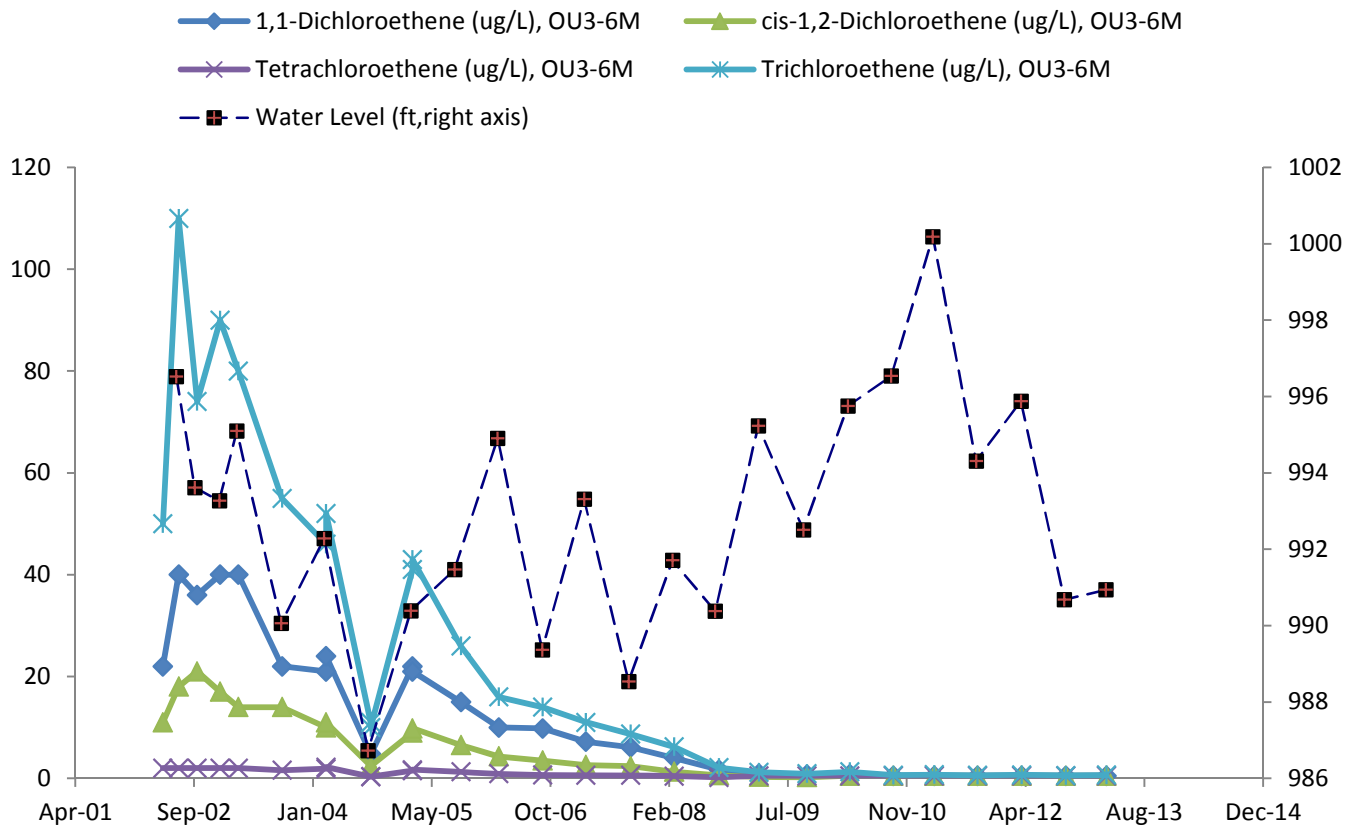

**Appendix E**
Historical Volatile Organic Compounds
OU3-5MR
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



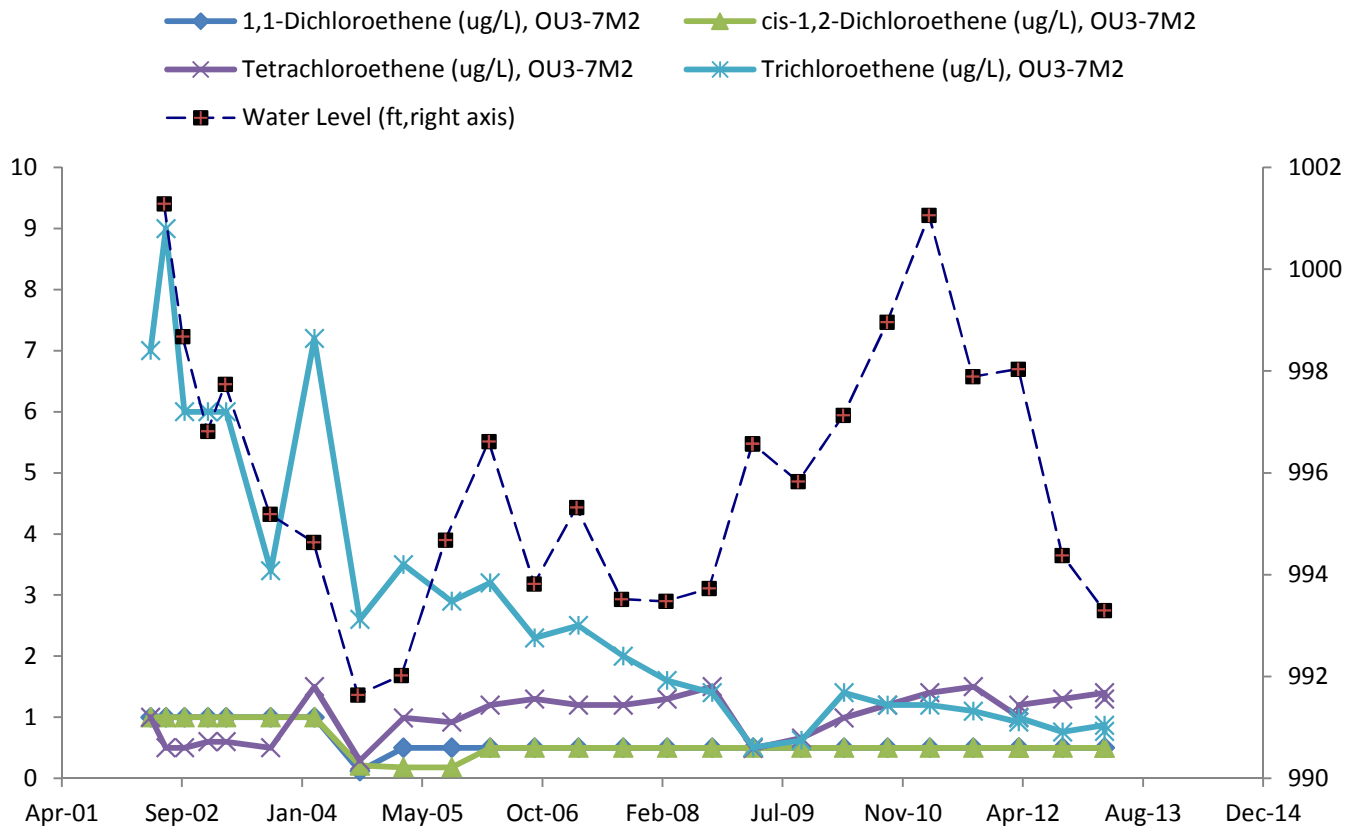

**Appendix E**
Historical Volatile Organic Compounds
OU3-5SR
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



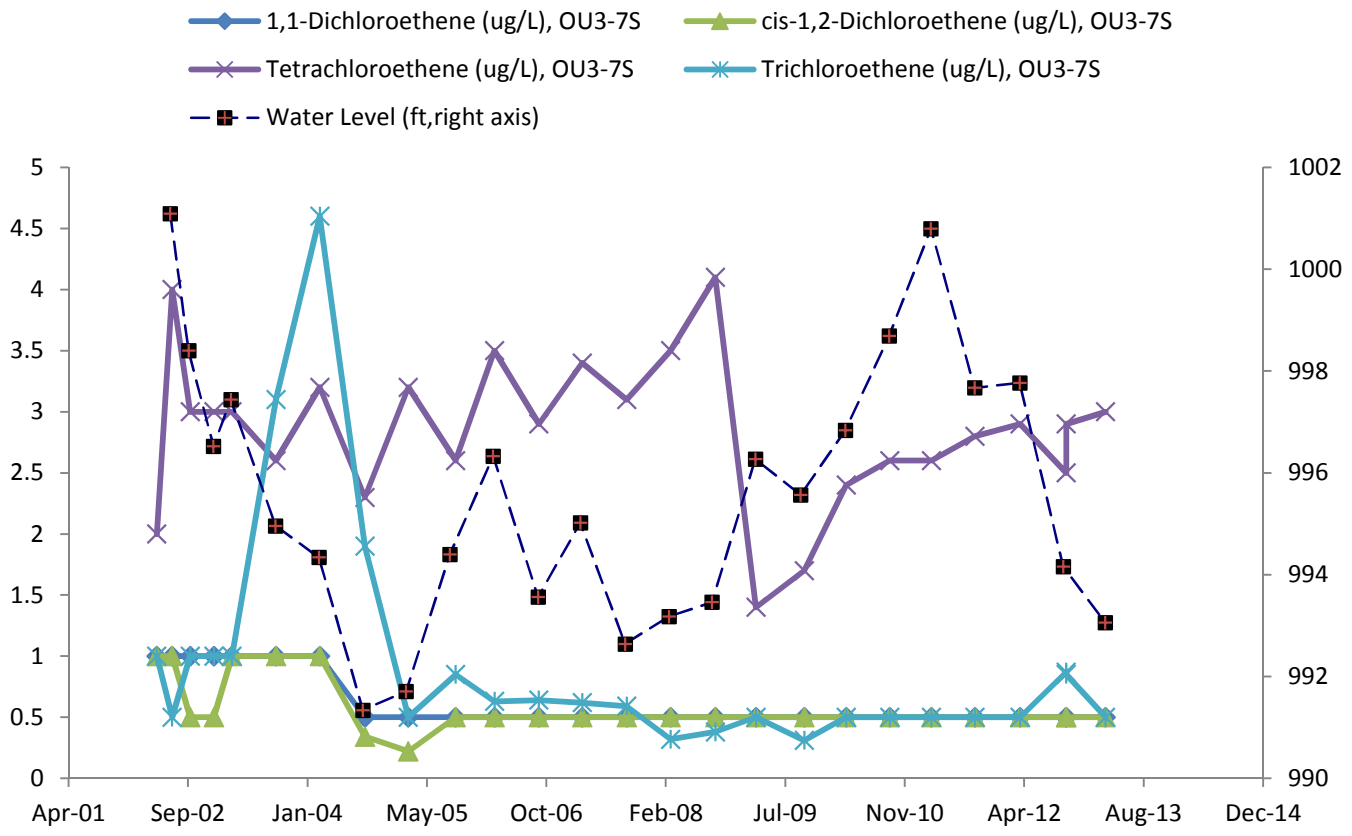

**Appendix E**
Historical Volatile Organic Compounds
OU3-6D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



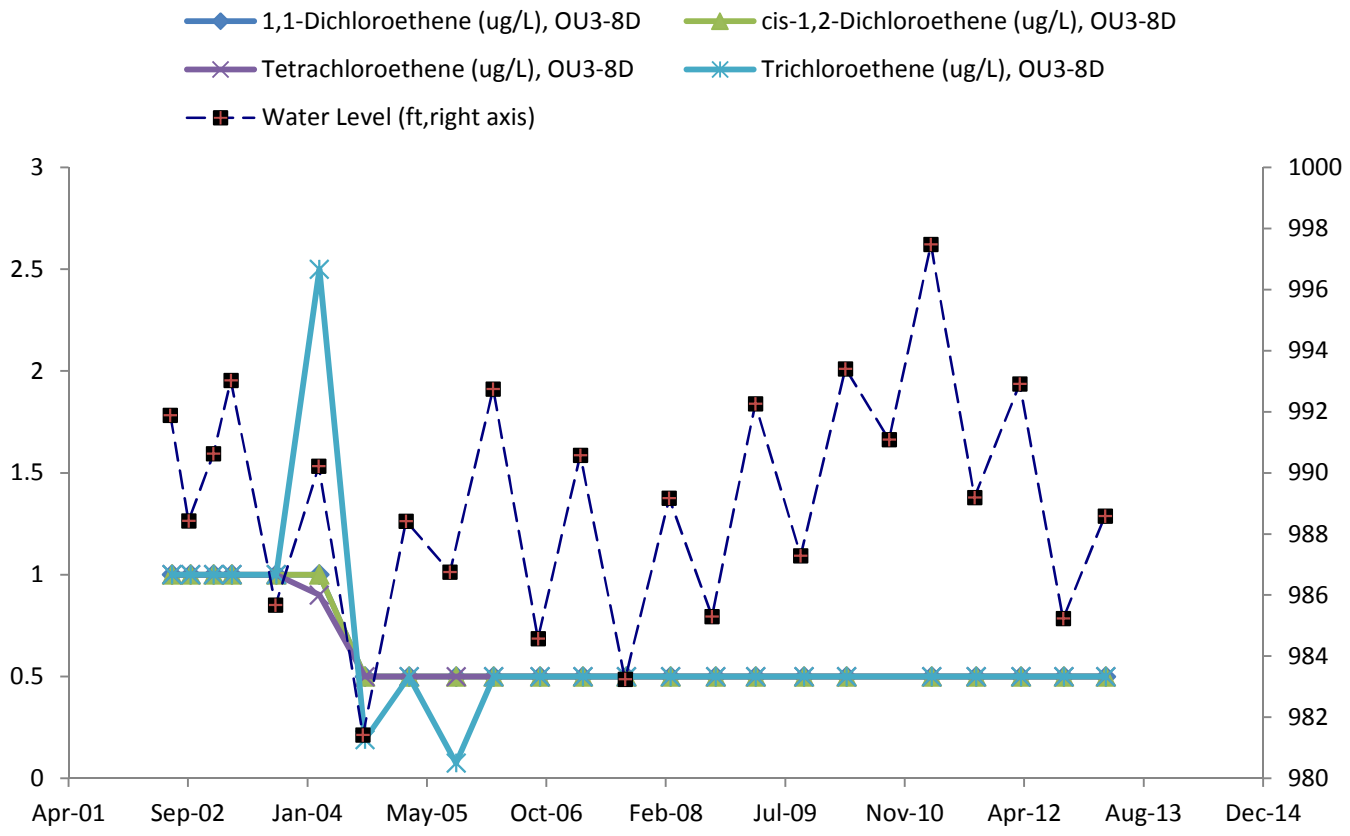

**Appendix E**
Historical Volatile Organic Compounds
OU3-6M
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



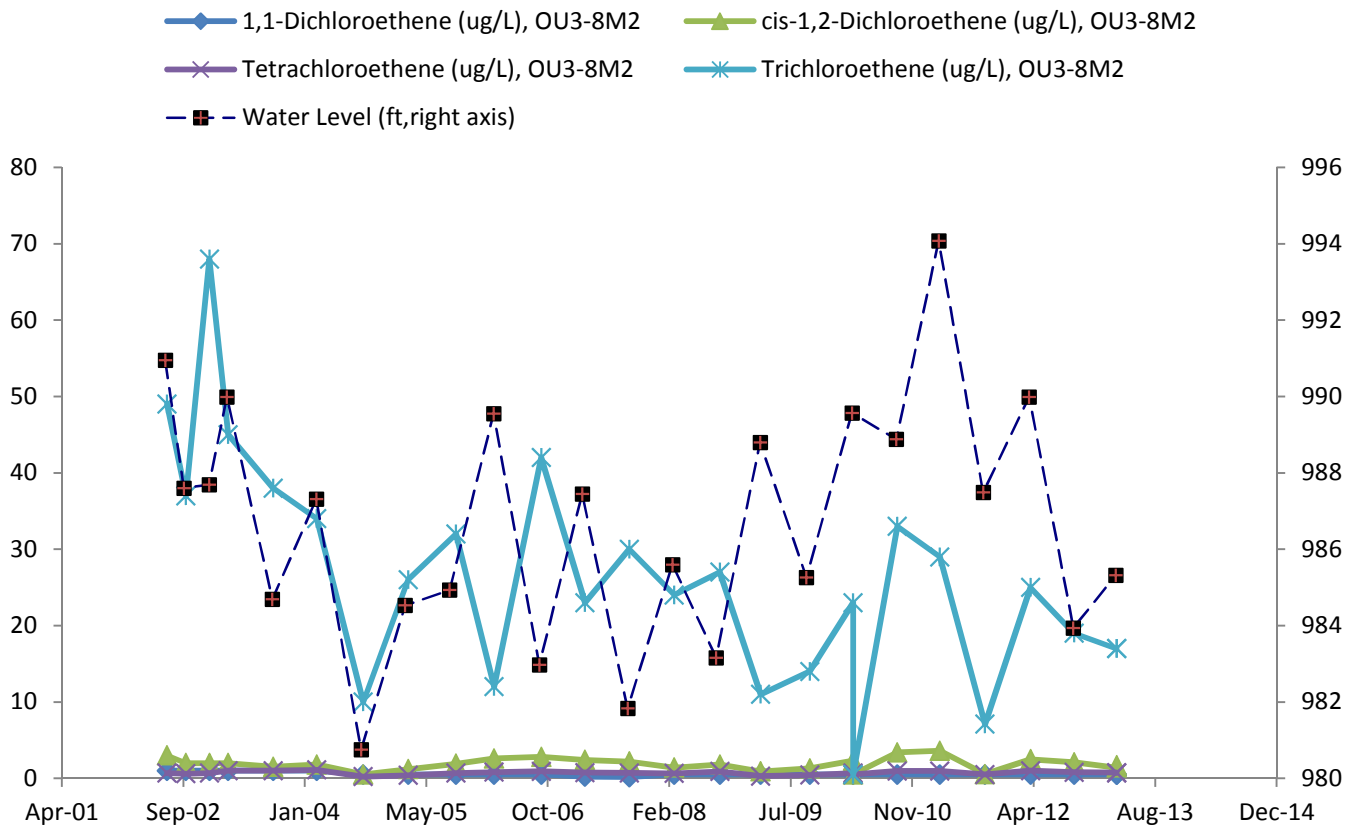

**Appendix E**
Historical Volatile Organic Compounds
OU3-7M2
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



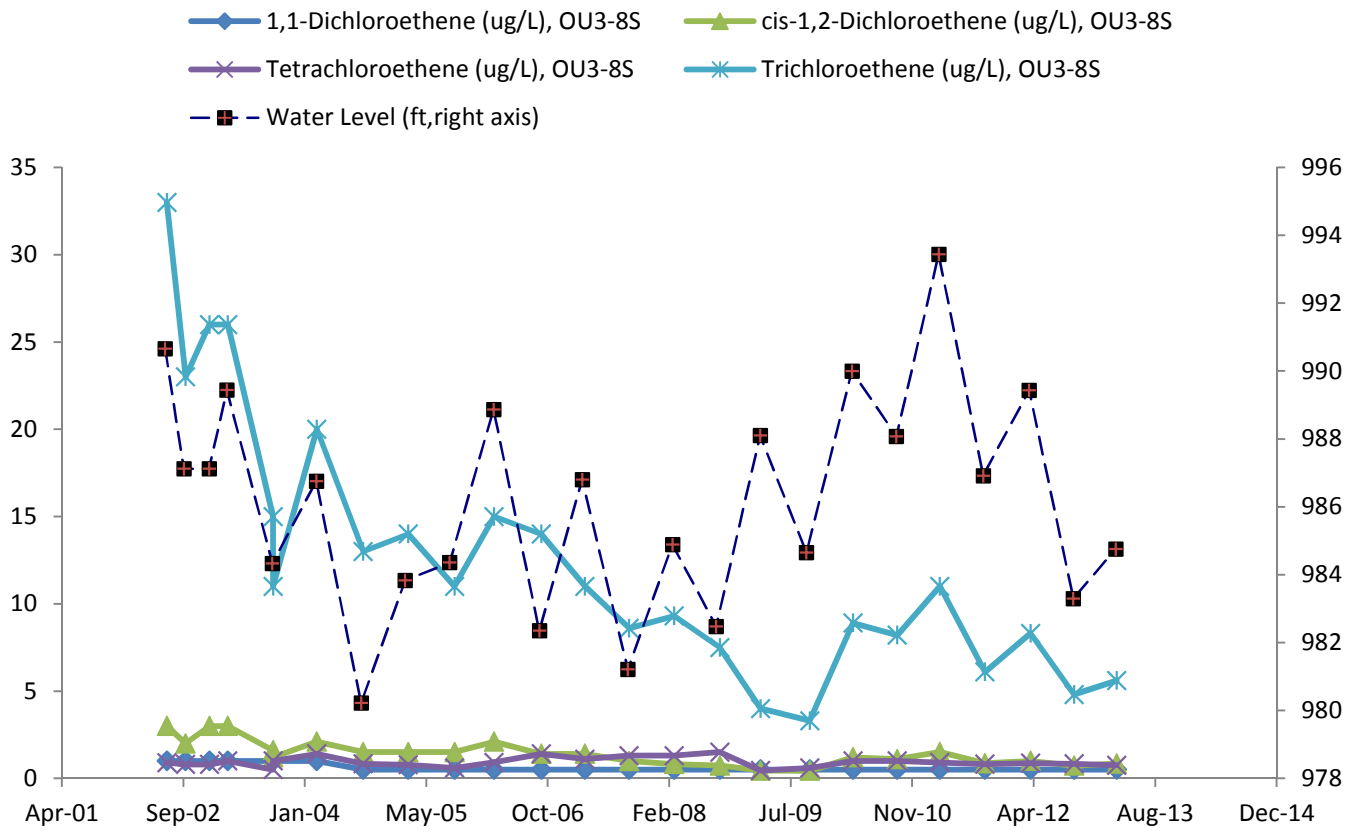

**Appendix E**
Historical Volatile Organic Compounds
OU3-7S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



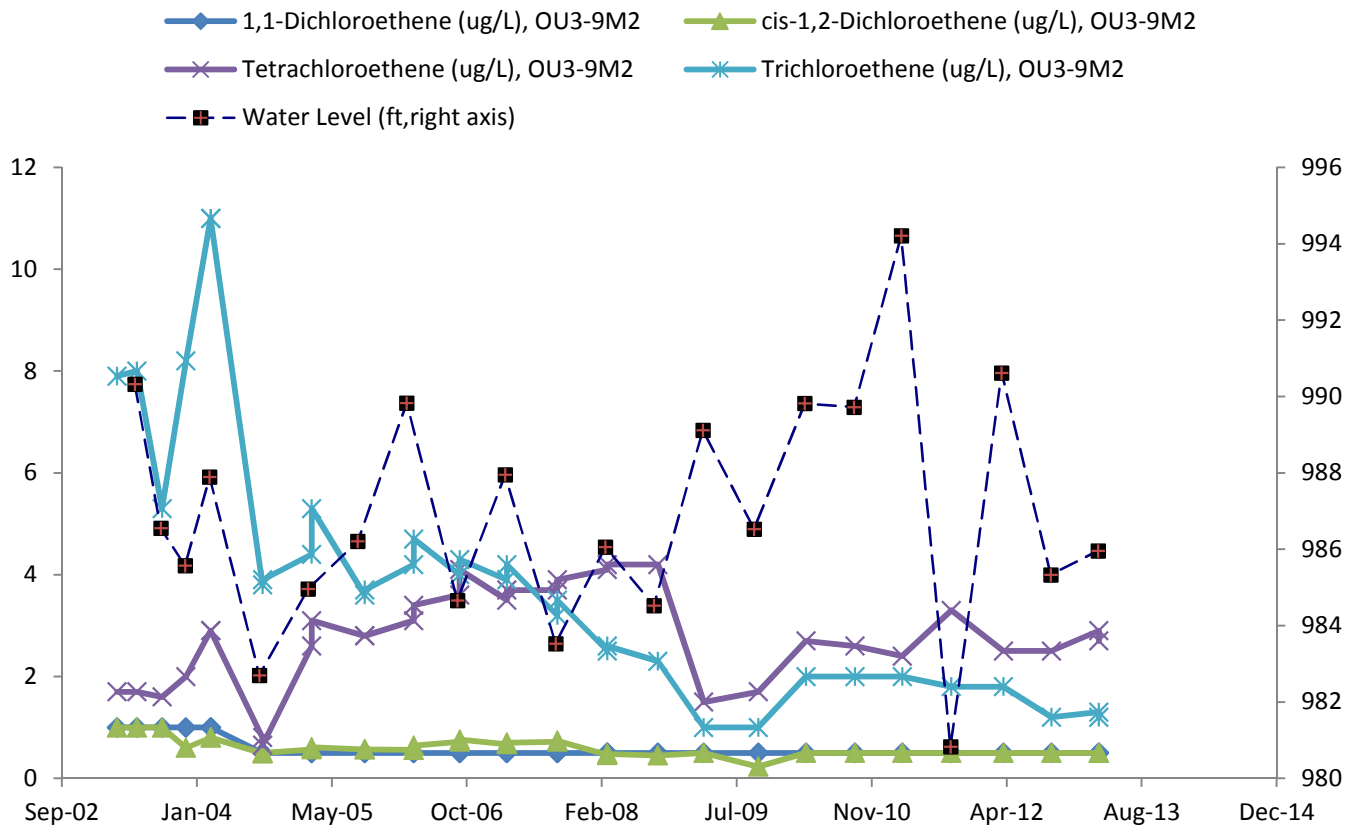

**Appendix E**
Historical Volatile Organic Compounds
OU3-8D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



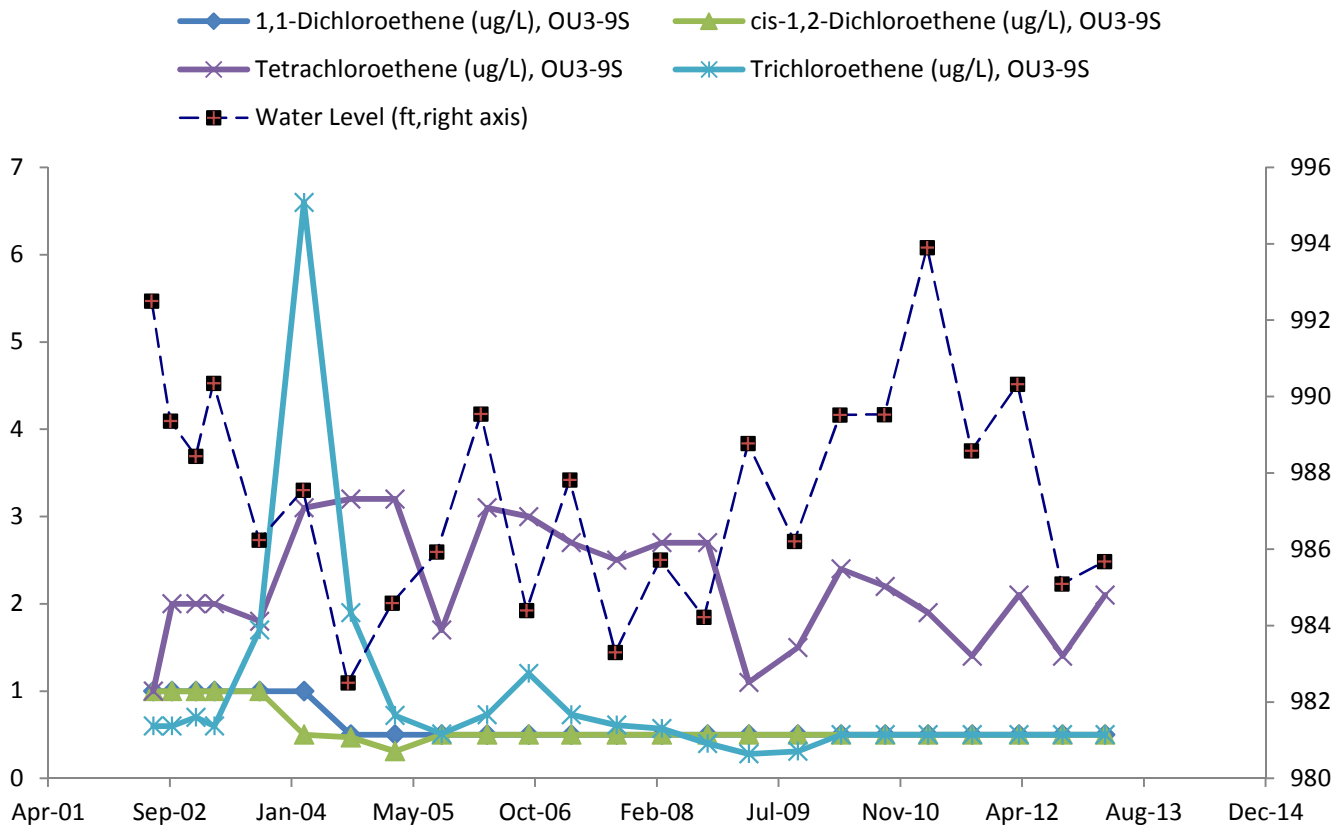

**Appendix E**
Historical Volatile Organic Compounds
OU3-8M2
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona



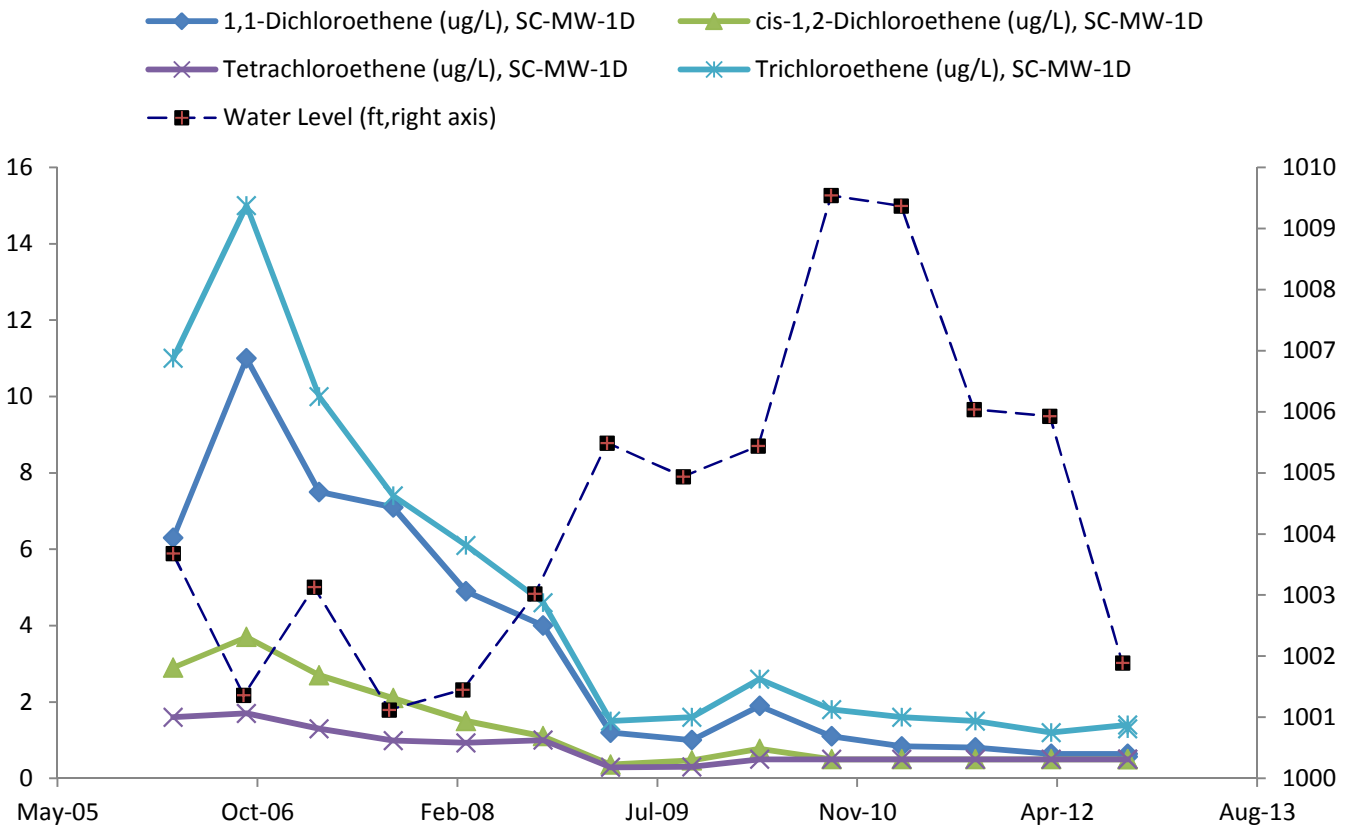

**Appendix E**
Historical Volatile Organic Compounds
OU3-8S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona




**Appendix E**
Historical Volatile Organic Compounds
OU3-9M2
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona




**Appendix E**
Historical Volatile Organic Compounds
OU3-9S
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona




**Appendix E**
Historical Volatile Organic Compounds
SC-MW-1D
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona

*Appendix F*
*Data Validation Report*

DRAFT

# APPENDIX F

# *DATA VALIDATION REPORT*

Analytical data is the basis for evaluating the environmental conditions present at the Motorola 52nd Street Superfund Site, Operable Unit 3, Semi-Annual Groundwater Sampling Event. It is essential that the data be accurate and reflective of actual conditions.

During the March 4, 2013 through March 15, 2013 groundwater sampling event, 44 original samples and 29 QA/QC samples were collected. All data underwent a Tier 1A review, and 10% of the data was reviewed at Tier 3 to ensure that data quality was acceptable for decision-making purposes. This process identified limitations for use of the data, and/or data that should not be used for decision-making purposes. The quality of data was assessed and any necessary qualifiers were applied following the *United States Environmental Protection Agency* (USEPA) *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008).

Laboratory Data Consultants, Inc. (LDC) validated/reviewed data for compliance with the following QA/QC project and/or method-prescribed criteria (described later in this section):

- Holding Time and Preservation: The period of time between collection of the sample, preparation/analysis, and acceptable temperature range of the sample. Analyses performed for this project have method-prescribed holding times and temperature ranges.

- Calibration: The analysis of target analytes at a range of concentrations to develop a graphical plot of instrument response against the different analyte concentrations. An initial calibration curve establishes the graphical plot, and the continuing calibration verification monitors daily instrument linearity against the initial calibration (Tier 3 review only).

- Blank Samples: The preparation and analysis of reagent (contaminant-free) water. Blank samples for this investigation included method blanks, trip blanks, field blanks, and equipment rinsates. Detections in a blank sample indicate laboratory and/or transportation or field contamination.

- Spike Samples: The preparation and analysis of an environmental sample or a sample of reagent water spiked with a subset of target compounds at known concentrations. The results of the spike analysis measure laboratory accuracy in the reagent sample, and results from the environmental sample spike measure potential interferences from the matrix.

- Internal Standards: The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis. The internal standards are used to quantitatively and qualitatively evaluate retention time and response for each sample (Tier 3 review only).

- Surrogate Spikes: The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis. Surrogate spikes measure possible interference from the sample matrix for the analysis of target compounds.

- Duplicate Samples: The preparation and analysis of an additional aliquot of the sample. The results from duplicate analysis measure potential heterogeneity of contaminants in the sample.

Standard qualifiers that may be applied during the review process are as follows:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample;

U: The analyte was not detected above the reported sample quantitation limit; and

UJ: The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximate and may or may not have represented the actual limit of quantitation

necessary to accurately and precisely measure the analyte in the sample.

R: The sample results were rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte could not be verified.

All of the data, including data qualified as having estimated values, are acceptable and can be used for decision-making purposes.

The following discussion addresses each of the QA/QC components listed above and the results for each of the components. EPA Tier 1A documentation was required for the samples in data packages PWC0150, PWC0353, PWC0492, PWC0592, PWC0676, PWC0755, PWC0898, PWC1003, and PWC1068. The data were reviewed for each of the components listed above, with the exception of calibration and internal standard response. EPA Tier 3 review was requested for all samples in data packages PWC0354, PWC0493, PWC0593, PWC0675, PWC0756, PWC0896, and PWC1000. Results were validated from the raw data provided by the laboratory. The validation included a review of the calibration results, internal standard response, and recalculation of a portion of the raw data, as well as the areas covered in the standard data review.

## Holding Time and Preservation

The EPA has established the maximum holding time that can elapse between preparation and analysis of samples. The EPA has also defined the acceptable temperature range at which samples must be stored to maintain sample preservation. Holding times and sample temperatures extending beyond the EPA maximum can negatively affect sample integrity (e.g., loss of volatile compounds, biodegradation) and are qualified depending on the severity of the exceedance and compounds of concern.

Each of the sample analysis results was reviewed for compliance with the method-prescribed preparation and analysis holding times. The samples were analyzed within the maximum allowable holding time with limited

exceptions. All samples collected were received at the laboratory within the proper temperature range.

In data packages PWC0492, PWC0592, PWC0676, and PWC1068, for method 8270C, one sample was extracted outside the technical holding time. The sample results were qualified as estimated.

The outlier results are presented in Table C-1.

## Calibration Results

Before an analytical instrument is used for sample analysis, the instrument must be calibrated to be within EPA method specifications. The purpose of this calibration is to ensure that the instrument is appropriately responsive to measurable chemical concentrations. If an instrument is not properly calibrated, it may not be capable of producing acceptable quantitative, qualitative, and reproducible data. For example, detected concentrations of a given compound that would still be considered valid could contain an undetermined degree of inaccuracy. In the case of nondetected results, the reporting limit would be similarly affected; such results would still be considered nondetected.

Two types of calibration data were reviewed. These were initial calibration (ICAL) and continuing calibration verification (CCV). A curve establishes a graphical plot of instrument response against the different analyte concentrations, and the CCV monitors daily instrument linearity against the initial calibration. The ICAL consisted of standards that were analyzed at five concentrations. These concentrations ranged from the reporting limit to the upper linear range of the instrument. The laboratory calculated the relative standard deviation for each of the target analytes included in the ICAL. The laboratory also calculated the relative response factors (RRFs) for the analytes in the ICAL. The reported percent relative standard deviations and RRFs were compared to the method-prescribed acceptance criteria and validation criteria during the data validation. In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination ($r^2$) were greater than or equal to 0.990.

A CCV and ICV are analyzed every 12 hours to ensure the instrument response is still within method-performance criteria for linearity. The CCV/ICV consisted of analyzing a standard at one concentration; the concentration of this standard was generally in the mid-range of the ICAL standard concentrations. The laboratory calculated the percent difference (%D) between CCV/ICV and the ICAL. The laboratory calculated the CCV/ICV RRFs. The %Ds and RRFs were then compared to the method-prescribed acceptance criteria and validation criteria during the data validation. Results quantitated using an unacceptable %D or RRF value may be considered semiquantitative and may be subject to some amount of error.

In data package PWC0354 for method 8260B, the ICV %D for one compound was outside the QC limits. The associated data were qualified as estimated J/UJ on the basis of calibration outliers.

In data packages PWC0493 and PWC1000 for method 8260B, the CCV %Ds for two compounds and the ICV %D for one compound were outside the QC limits. The associated data were qualified as estimated J/UJ on the basis of calibration outliers.

In data package PWC0593 for method 8260B, the CCV %D for one compound and the ICV %Ds for two compounds were outside the QC limits. The associated data were qualified as estimated J/UJ on the basis of calibration outliers.

In data package PWC0675 for method 8260B, the CCV %Ds for six compounds and the ICV %Ds for two compounds were outside the QC limits. The associated data were qualified as estimated J/UJ on the basis of calibration outliers.

In data packages PWC0756 and PWC0896 for method 8260B, the CCV %Ds for three compounds and the ICV %Ds for two compounds were outside the QC limits. The associated data were qualified as estimated J/UJ on the basis of calibration outliers.

These outliers are listed in Table C-2.

## Blank Samples

The purpose of a blank sample is to determine the presence and magnitude of contamination resulting from laboratory, shipping, or other sample-handling activities. Blank samples are analyzed and evaluated for detections of target compounds. If target compounds are detected in a blank sample that was initially intended to be contaminant-free, these detections indicate some element of the sample collection, transportation, or analysis activities has introduced contaminants not present in the original environmental sample aliquot. If target compounds are detected in a blank sample, then all associated data must be carefully evaluated to determine whether those results have been similarly impacted or the blank problem is an isolated occurrence not representative of other data.

The four types of blank samples routinely analyzed and reported with the groundwater samples were method blank, trip blank, field blank, and equipment blank samples. Preparation, handling, and analysis of these blank samples are summarized below.

1. The laboratory prepared method blank samples by taking an aliquot of reagent water through all of the preparation and analysis steps that the samples go through. A method blank was prepared and analyzed with each batch of environmental samples. Method blank samples monitor for potential contamination of samples from the laboratory.

2. Trip blank samples are typically analyzed with every shipment of samples for volatile organic compounds only. Field and method blank samples may occasionally be contaminated during preparation and/or analysis from ambient conditions at the laboratory. The majority of the method blank and trip blank results were nondetected, indicating laboratory and handling conditions were acceptable.

3. Field blank samples were prepared at sample collection locations by slowly pouring tap water into clean sample containers supplied by the laboratory. Field blank samples collected were labeled with an "R" identifier in the sample identification number. Field blank samples monitor for potential contamination of project samples from ambient conditions at the sample collection site.

4. Equipment blank samples were prepared at sample collection locations from the pump exterior of the sampling equipment. The identifier "EB" was used in the equipment blank sample identification number. Equipment blank samples monitor for potential cross contamination of project samples from sampling equipment.

For method 8260B, the trip blanks did not have any detected results.

In data package PWC0150 for method 8260B, the equipment blank sample had three sample each had three volatile contaminants detected. The associated samples were all nondetected and no data were qualified.

In data packages PWC0353 and PWC0354 for method 8260B, the equipment blank sample had four volatile contaminants detected. The associated samples with detected results were qualified as nondetected at the reported concentration.

In data packages PWC0492, PWC0493, PWC0592, PWC0593, PWC0755, PWC0756, PWC0896, PWC0898, PWC1000, PWC1003, and PWC1068 for method 8260B, the equipment blank samples each had three volatile contaminants detected. The associated samples with detected results were qualified as nondetected at the reported concentration.

In data packages PWC0675 and PWC0676 for method 8260B, the equipment blank samples and the rinsate sample each had three volatile contaminants detected. The associated samples with detected results were qualified as nondetected at the reported concentration.

For method 8270C, the equipment blanks did not have any detected results.

These detections and qualifications are listed in Table C-3.

## Spike Samples

A spike sample is a QC sample that is prepared and analyzed by the laboratory. The laboratory prepares, analyzes, and reports spike sample

results to demonstrate their ability to properly analyze, detect, and quantify target compounds. A spike sample result is typically reported as the amount of compound detected divided by the amount spiked into the sample and is commonly referred to as percent recovery. The percent recovery is then compared to an established limit range. The two types of spike samples analyzed with the project samples were matrix spikes and blank spikes.

1. Matrix spike (MS) samples consist of an aliquot of an environmental sample that is spiked with known concentrations of a subset of target compounds. A matrix spike duplicate (MSD) sample is a second sample prepared and analyzed with the MS sample. MS samples are used to monitor potential interference from the sample matrix for target compounds. A low MS recovery may indicate low-biased sample results; a high MS recovery may indicate high-biased sample results.

2. Blank spike samples, which are commonly referred to as laboratory control samples (LCS), are an aliquot of reagent water that is spiked with known concentrations of a subset of target compounds. The LCS is used to monitor laboratory accuracy without the bias of a sample matrix. A laboratory control sample duplicate (LCSD) is a second LCS that is prepared with the first LCS. LCS and LCSD recoveries outside of acceptable limits may indicate poor laboratory accuracy. LCSD relative percent differences (RPD) outside of acceptable limits may indicate poor precision.

In data packages PWC0150, PWC0492, and PWC0592, for method 8260B three MS/MSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data package PWC0675 for method 8260B, four MS/MSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0898 and PWC1003 for method 8260B, one MS recovery was not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0898 and PWC1068 for method 8260B, two MS/MSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data package PWC0675 for method 8270C, one MS recovery and the MS/MSD RPD were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0150, PWC0353, and PWC0354 for method 8270C, two LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0492 and PWC0493 for method 8270C, four LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data package PWC0592 for method 8270C, ten LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0592, PWC0593, PWC0675, PWC0676, PWC0755, PWC0756, PWC0896, and PWC0898 for method 8270C, one LCS recovery and one LCS/LCSD RPD were not within acceptable limits. The associated sample results were qualified as estimated.

In data package PWC0593 for method 8270C, four LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0675 and PWC0676 for method 8270C, six LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data package PWC0676 for method 8270C, fourteen LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC0755, PWC0756, and PWC0896, for method 8270C, one LCS recovery was not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data package PWC0898 for method 8270C, four LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data packages PWC1000 and PWC1003 for method 8270C, two LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

In data package PWC1068 for method 8270C, three LCS/LCSD recoveries were not within acceptable limits. The associated samples with detected results were qualified as estimated.

For method 8270C all of the LCS/LCSD recoveries and RPDs were within acceptable limits.

The MS/MSD outlier results are listed in Table C-4.

The LCS/LCSD outlier results are listed in Table C-5.

**Internal Standard Responses**

Under EPA methods, a given analyte list for organic compounds is segregated by chemical properties and retention time into subsets. An EPA-defined internal standard with comparable chemical properties and retention times is assigned to each subset of analytes. A known concentration of an internal standard is added to each sample including laboratory QC samples (e.g., calibration standards, MS, method blank samples) prior to analysis and the instrument internal standard response for each sample is compared to the internal standard response in the daily CCV.

The sample internal standard area count must be within the range of 0.5 to 2 times the CCV area count, and the retention time must be within ±30 seconds of the CCV retention time. If the area count and/or retention times measured for the sample is outside these acceptance ranges,

quantitation results for the associated analyte subset may be biased. Interferences from the sample matrix are typically responsible for internal standard responses that are consistently outside acceptable ranges. Most matrix interferences cause a high or low bias.

Internal standards were added to each of the samples analyzed as required by the method.

For method 8260B, all internal standard area counts and retention times were within acceptable limits.

In data packages PWC0354, PWC0756, and PWC0896 for method 8270C, one internal standard area count was not within acceptable limits. The associated sample results were qualified as estimated.

In data package PWC0493 for method 8270C, three internal standard area counts was not within acceptable limits. The associated sample results were qualified as estimated.

In data packages PWC0675 and PWC1000 for method 8270C, two internal standard area counts were not within acceptable limits. The associated sample results were qualified as estimated.

The internal standard outlier results are listed in Table C-6.

## Surrogate Spikes

A surrogate spike is similar to an internal standard; it is chemically similar to the target compounds and it is only used in organic analyses. A surrogate spike is used to assess interference from the sample matrix during the analysis. An internal standard is used to quantitate target compounds while accounting for any possible interference from the sample matrix. Surrogate spike results are typically reported in terms of percent recovery, based on the concentration of surrogate detected divided by the known amount of surrogate added to the sample aliquot.

Surrogate recoveries were compared to the limits of acceptance. All surrogate recoveries were within acceptable limits for all samples for method 8260B.

In data package PWC0150 for method 8270C, five samples had surrogate recoveries which were not within acceptable limits. The associated sample results were qualified as estimated.

In data packages PWC0353, PWC0676, and PWC0898 for method 8270C, six samples had surrogate recoveries which were not within acceptable limits. The associated sample results were qualified as estimated.

In data packages PWC0354, PWC0492, PWC0675, PWC0756, and PWC0896 for method 8270C, one sample had a surrogate recovery which was not within acceptable limits. The associated sample results were qualified as estimated.

In data packages PWC0492, PWC0676, and PWC1068 for method 8270C, one sample had a severely low surrogate recovery which was not within acceptable limits. The associated sample detected results were qualified as estimated and the nondetected results were rejected.

In data package PWC0592 for method 8270C, one sample had a surrogate recovery which was not within acceptable limits. The associated sample results were qualified as estimated.

In data package PWC0592 for method 8270C, six samples had surrogate recoveries which were not within acceptable limits. The associated sample detected results were qualified as estimated.

In data packages PWC0593 and PWC1068 for method 8270C, one sample had a surrogate recovery which was not within acceptable limits. The associated sample detected results were qualified as estimated.

In data package PWC0755 for method 8270C, four samples had surrogate recoveries which were not within acceptable limits. The associated sample results were qualified as estimated.

In data package PWC1000 for method 8270C, two samples had surrogate recoveries which were not within acceptable limits. The associated sample results were qualified as estimated.

In data package PWC1003 for method 8270C, three samples had surrogate recoveries which were not within acceptable limits. The associated sample results were qualified as estimated.

The surrogate spike outlier results are listed in Table C-7.

## Field Duplicate Samples

A duplicate sample is a second aliquot of a sample that is collected, prepared, and analyzed in the same manner as the original sample. A field duplicate sample is collected to measure the precision of the method and to assess matrix heterogeneity. The USEPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision.

Eight groundwater sample was collected in duplicate and submitted for analysis. LDC calculated the relative percent difference (RPD) or actual difference between detected values in the groundwater sample duplicate pairs. The USEPA has not established control criteria based on field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision. The RPDs and actual difference indicate matrix homogeneity in the samples collected for the groundwater sampling event.

The calculated RPDs and actual difference are presented in Table C-8.

## Analytical Duplicate Samples

An analytical duplicate sample is a second aliquot of a sample that is prepared and analyzed in the laboratory in the same manner as the original sample. Analytical duplicate samples are analyzed to measure the precision of the method and to assess matrix heterogeneity.

No analytical duplicates were analyzed for methods 8260B and 8270C.

**Overall Assessment**

All data can be used for decision-making purposes; however, the limitations indicated by the applied qualifier should be considered when using the data.

Data for all target compounds for method 8270C were flagged as not reportable in samples GB-EB3-030713, OU3-8S-S-030813-MS/MSDRE, GW-EB6-031113, and EW-19S-S-031513-Q1 due to another more usable result.

These results are presented in Table C-9.

Nondetected results were rejected in samples GB-EB3-030713, GW-EB6-031113, and EW-19S-S-031513-Q1 for method 8270C due to surrogate %R below ten percent.

Sample results that were found to be estimated (J or UJ) are usable for limited purposes only. All other results are considered valid and usable for all purposes.

The quality of the data generated during the March 4, 2013 through March 15, 2013 investigation at the Motorola 52nd Street Superfund Site, Operable Unit 3, Semi-Annual Groundwater Sampling Event is acceptable for the preparation of technically defensible documents.

***Table C-1***
***Samples with Exceeded Holding Times***
***Operable Unit 3***
***Motorola 52nd Superfund Site, Semi-Annual 2013***

| Lab Package | Sample ID | Method | Affected Compound | Matrix | Total Days From Sample Collection Until Extraction | Required Holding Time From Sample Collection Until Extraction | LDC Qualifier |
|---|---|---|---|---|---|---|---|
| PWC0492 | GB-EB3-030713RE | 8270C | 1,4-Dioxane | water | 11 | 7 days | J/UJ |
| | | | | | | | |
| PWC0592 | )U3-8S-S-030813-MS/MSDR | 8270C | 1,4-Dioxane | water | 13 | 7 days | J/UJ |
| | | | | | | | |
| PWC0676 | GW-EB6-031113RE | 8270C | 1,4-Dioxane | water | 10 | 7 days | J/UJ |
| | | | | | | | |
| PWC1068 | EW-19S-S-031513-Q1RE | 8270C | 1,4-Dioxane | water | 12 | 7 days | J/UJ |
| | | | | | | | |

**Key:**
RE = Re-extracted sample
J-/UJ = Detected results are estimated; nondetected results are estimated at the report limit
J-/R = Detected results are estimated; nondetected results are rejected
**Indicates sample underwent Level IV review

*Table C-2*
*Calibrations Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Calibration Date | Associated Sample | Method | Analyte | %D | Analysis Criteria | Validation Criteria | RRF | RRF Criteria | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| PWC0354 | 2/22/2013 | OU3-12D-D-030613** | 8260B | Vinyl acetate | 49.7 | ≤20.0 | ≤25.0 | 0.663 | ≥0.05 | J/UJ |
| | ICV | | | | | | | | | |
| | | | | | | | | | | |
| PWC0493 | 2/22/2013 | OU3-6M-M-030713** | 8260B | Vinyl acetate | 49.7 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | OU3-17S-S-030713** | | | | | | | | |
| | | OU3-4S-S-030713** | | | | | | | | |
| | | | | | | | | | | |
| PWC0493 | 3/11/2013 | OU3-6M-M-030713** | 8260B | Acetone | 56 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | CCV | OU3-17S-S-030713** | | 1,2-Dibromo-3-chloropropane | 35 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | OU3-4S-S-030713** | | | | | | | | |
| | | | | | | | | | | |
| PWC0593 | 3/7/2013 | OU3-8D-D-030813** | 8260B | Vinyl acetate | 61.3 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | | | 2-Hexanone | 28.2 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | | | | | | | | | |
| PWC0593 | 3/12/2013 | OU3-8D-D-030813** | 8260B | Vinyl acetate | 52.3 | ≤20.0 | ≤25.0 | 1.305 | ≥0.05 | J/UJ |
| | CCV | | | | | | | | | |
| | | | | | | | | | | |
| PWC0675 | 2/22/2013 | U3-16M-M-031113-MS/MSD | 8260B | Vinyl acetate | 49.7 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | | | | | | | | | |
| | | | | | | | | | | |
| PWC0675 | 3/7/2013 | OU3-10M-M-031113** | 8260B | Vinyl acetate | 61.3 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | | | 2-Hexanone | 28.2 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| PWC0675 | 3/13/2013 | U3-16M-M-031113-MS/MSD | 8260B | Dichlorodifluoromethane | 29.7 | ≤20.0 | ≤25.0 | 0.838 | ≥0.05 | J/UJ |
| | CCV | | | Trichlorofluoromethane | 36.0 | ≤20.0 | ≤25.0 | 1.001 | ≥0.05 | J/UJ |
| | | | | 1,2-Dichloroethane | 25.1 | ≤20.0 | ≤25.0 | 0.623 | ≥0.05 | J/UJ |
| | | | | Carbon tetrachloride | 38.2 | ≤20.0 | ≤25.0 | 0.694 | ≥0.05 | J/UJ |
| | | | | 1,2-Dibromo-3-chloropropane | 41 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | | | | | | | | | |

*Table C-2*
*Calibrations Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Calibration Date | Associated Sample | Method | Analyte | %D | Analysis Criteria | Validation Criteria | RRF | RRF Criteria | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| PWC0675 | 3/12/2013 | OU3-10M-M-031113** | 8260B | Vinyl acetate | 52.3 | ≤20.0 | ≤25.0 | 1.305 | ≥0.05 | J/UJ |
| | CCV | | | | | | | | | |
| | | | | | | | | | | |
| PWC0756 | 3/7/2013 | OU3-5M2-M-031213** | 8260B | Vinyl acetate | 61.3 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | | | 2-Hexanone | 28.2 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | | | | | | | | | |
| PWC0756 | 3/14/2013 | OU3-5M2-M-031213** | 8260B | Dichlorodifluoromethane | 30.2 | ≤20.0 | ≤25.0 | 0.625 | ≥0.05 | J/UJ |
| | CCV | | | 2-Butanone | 32.7 | ≤20.0 | ≤25.0 | 0.065 | ≥0.05 | J/UJ |
| | | | | 2-Hexanone | 25.5 | ≤20.0 | ≤25.0 | 0.374 | ≥0.05 | J/UJ |
| | | | | | | | | | | |
| PWC0896 | 3/7/2013 | OU3-14M-M-031313** | 8260B | Vinyl acetate | 61.3 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | | | 2-Hexanone | 28.2 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | | | | | | | | | |
| PWC0896 | 3/14/2013 | OU3-14M-M-031313** | 8260B | Dichlorodifluoromethane | 30.2 | ≤20.0 | ≤25.0 | 0.625 | ≥0.05 | J/UJ |
| | CCV | | | 2-Butanone | 32.7 | ≤20.0 | ≤25.0 | 0.065 | ≥0.05 | J/UJ |
| | | | | 2-Hexanone | 25.5 | ≤20.0 | ≤25.0 | 0.374 | ≥0.05 | J/UJ |
| | | | | | | | | | | |
| PWC1000 | 2/22/2013 | OU3-1D-D031413** | 8260B | Vinyl acetate | 49.7 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | ICV | OU3-13D-D031413** | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| PWC1000 | 3/18/2013 | OU3-1D-D031413** | 8260B | Acetone | 32 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | CCV | OU3-13D-D031413** | | 1,2-Dibromo-3-chloropropane | 29 | ≤20.0 | ≤25.0 | NA | NA | J/UJ |
| | | | | | | | | | | |

**Key:**

NA = No qualified result
ICAL = Initial calibration
CCAL = Continuing calibration
ICV = Initial calibration verification
RRF = Relative response factor
%D = Percent difference

J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
CCV = Continuing calibration verification
RPD = Relative percent difference
** = Sample underwent Tier 3 review

*Table C-3*
*Blank and Associated Suspect Sample Detections*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Blank ID | Method | Associated Samples | Detected Compound | Reported Concentration | Report Limit | Units | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|
| PWC0150 | GW-EB1-030413 | 8260B | See below | Bromodichloromethane | 2.4 | 0.50 | ug/L | |
| | | | | Chloroform | 1.4 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.8 | 0.50 | ug/L | |
| | | | EW-13-268-D-030413 | | | | | NA, ND |
| | | | EW-13-228-D-030413 | | | | | NA, ND |
| | | | EW-13-168-M-030413 | | | | | NA, ND |
| | | | EW-13-118-S-030413 | | | | | NA, ND |
| | | | DT-DW-5-S-030413 | Chloroform | 0.62 | 0.50 | ug/L | 0.62U |
| | | | | | | | | |
| PWC0353 | GW-EB2-030613 | 8260B | See below | Bromodichloromethane | 2.5 | 0.50 | ug/L | |
| | | | | Carbon disulfide | 1.4 | 0.50 | ug/L | |
| | | | | Chloroform | 1.5 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.7 | 0.50 | ug/L | |
| | | | OU3-11M2-M-030613 | | | | | NA, ND |
| | | | OU3-11M-M-030613 | | | | | NA, ND |
| | | | OU3-11M-M-030613-Q1 | | | | | NA, ND |
| | | | OU3-11S-S-030613 | Chloroform | 0.50 | 0.50 | ug/L | 0.50U |
| | | | OU3-12M-M-030613 | | | | | NA, ND |
| | | | | | | | | |
| PWC0354 | GW-EB2-030613 | 8260B | See below | Bromodichloromethane | 2.5 | 0.50 | ug/L | |
| | (from PWC0353) | | | Carbon disulfide | 1.4 | 0.50 | ug/L | |
| | | | | Chloroform | 1.5 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.7 | 0.50 | ug/L | |
| | | | OU3-12D-D-030613** | | | | | NA, ND |
| | | | | | | | | |
| PWC0492 | GB-EB3-030713 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | | | | Chloroform | 1.3 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.7 | 0.50 | ug/L | |
| | | | OU3-6D-D-030713-MS/MSD | | | | | NA, ND |
| | | | OU3-7M2-M-030713 | Chloroform | 0.54 | 0.50 | ug/L | 0.54U |
| | | | OU3-7M2-M-030713-Q1 | Chloroform | 0.54 | 0.50 | ug/L | 0.54U |

*Table C-3*
*Blank and Associated Suspect Sample Detections*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Blank ID | Method | Associated Samples | Detected Compound | Reported Concentration | Report Limit | Units | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|
| | | | OU3-7S-S-030713 | Chloroform | 1.4 | 0.50 | ug/L | 1.4U |
| | | | | | | | | |
| PWC0493 | GB-EB3-030713 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | (from PWC0492) | | | Chloroform | 1.3 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.7 | 0.50 | ug/L | |
| | | | OU3-6M-M-030713** | Chloroform | 0.79 | 0.50 | ug/L | 0.79U |
| | | | OU3-17S-S-030713** | Chloroform | 2.9 | 0.50 | ug/L | 2.9U |
| | | | OU3-4S-S-030713** | Chloroform | 1.1 | 0.50 | ug/L | 1.1U |
| | | | | | | | | |
| PWC0592 | GW-EB4-030813 | 8260B | See below | Bromodichloromethane | 2.9 | 0.50 | ug/L | |
| | | | | Chloroform | 1.7 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.2 | 0.50 | ug/L | |
| | | | OU3-9M2-M-030813 | Chloroform | 1.7 | 0.50 | ug/L | 1.7U |
| | | | OU3-9M2-M-030813-Q1 | Chloroform | 1.8 | 0.50 | ug/L | 1.8U |
| | | | OU3-9S-S-030813 | Chloroform | 1.4 | 0.50 | ug/L | 1.4U |
| | | | OU3-8M2-M-030813 | Chloroform | 0.50 | 0.50 | ug/L | 0.50U |
| | | | OU3-8M2-M-030813-Q1 | Chloroform | 0.50 | 0.50 | ug/L | 0.50U |
| | | | OU3-8S-S-030813-MS/MSD | Chloroform | 1.4 | 0.50 | ug/L | 1.4U |
| | | | | | | | | |
| PWC0593 | GW-EB4-030813 | 8260B | See below | Bromodichloromethane | 2.9 | 0.50 | ug/L | |
| | (from PWC0592) | | | Chloroform | 1.7 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.2 | 0.50 | ug/L | |
| | | | OU3-8D-D-030813** | | | | | NA, ND |
| | | | | | | | | |
| PWC0675 | GW-EB5-031113 | 8260B | See below | Bromodichloromethane | 3.5 | 0.50 | ug/L | |
| | (from PWC0676) | | | Chloroform | 2.2 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.9 | 0.50 | ug/L | |
| | | | | | | | | |
| PWC0675 | GW-R1-1-031113 | 8260B | See below | Bromodichloromethane | 3.5 | 0.50 | ug/L | |
| | (from PWC0676) | | | Chloroform | 2.2 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.8 | 0.50 | ug/L | |

*Table C-3*
*Blank and Associated Suspect Sample Detections*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Blank ID | Method | Associated Samples | Detected Compound | Reported Concentration | Report Limit | Units | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| PWC0675 | GW-EB6-031113 | 8260B | See below | Bromodichloromethane | 3.1 | 0.50 | ug/L | |
| | (from PWC0676) | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.7 | 0.50 | ug/L | |
| | | | OU3-16M-M-031113-MS/MSD** | Chloroform | 1.8 | 0.50 | ug/L | 1.8U |
| | | | OU3-10M-M-031113** | Chloroform | 3.6 | 0.50 | ug/L | 3.6U |
| | | | | | | | | |
| PWC0676 | GW-EB5-031113 | 8260B | See below | Bromodichloromethane | 3.5 | 0.50 | ug/L | |
| | | | | Chloroform | 2.2 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.9 | 0.50 | ug/L | |
| | | | | | | | | |
| PWC0676 | GW-R1-1-031113 | 8260B | See below | Bromodichloromethane | 3.5 | 0.50 | ug/L | |
| | | | | Chloroform | 2.2 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.8 | 0.50 | ug/L | |
| | | | | | | | | |
| PWC0676 | GW-EB6-031113 | 8260B | See below | Bromodichloromethane | 3.1 | 0.50 | ug/L | |
| | | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.7 | 0.50 | ug/L | |
| | | | EW-21-S-031113 | Chloroform | 0.74 | 0.50 | ug/L | 0.74U |
| | | | OU3-16s-S-031113 | Chloroform | 2.0 | 0.50 | ug/L | 2.0U |
| | | | OU3-16s-S-031113-Q1 | Chloroform | 2.4 | 0.50 | ug/L | 2.4U |
| | | | OU3-10M2-M-031113 | Chloroform | 2.0 | 0.50 | ug/L | 2.0U |
| | | | OU3-10s-S-031113 | Chloroform | 3.1 | 0.50 | ug/L | 3.1U |
| | | | OU3-10s-S-031113-Q1 | Chloroform | 3.5 | 0.50 | ug/L | 3.5U |
| | | | | | | | | |
| PWC0755 | GW-EB7-031213 | 8260B | See below | Bromodichloromethane | 2.7 | 0.50 | ug/L | |
| | | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.4 | 0.50 | ug/L | |
| | | | OU3-5DR-D-031213 | | | | | NA, ND |
| | | | OU3-5MR-M-031213 | Chloroform | 1.6 | 0.50 | ug/L | 1.6U |
| | | | OU3-5SR-S-031213 | Chloroform | 3.6 | 0.50 | ug/L | 3.6U |

*Table C-3*
*Blank and Associated Suspect Sample Detections*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Blank ID | Method | Associated Samples | Detected Compound | Reported Concentration | Report Limit | Units | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| PWC0756 | GW-EB7-031213 | 8260B | See below | Bromodichloromethane | 2.7 | 0.50 | ug/L | |
| | (from PWC0755) | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 3.4 | 0.50 | ug/L | |
| | | | OU3-5M2-M-031213** | Bromodichloromethane | 0.91 | 0.50 | ug/L | 0.91U |
| | | | | Chloroform | 1.1 | 0.50 | ug/L | 1.1U |
| | | | | | | | | |
| PWC0896 | GW-EB8-031313 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | (from PWC0898) | | | Chloroform | 2.0 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.3 | 0.50 | ug/L | |
| | | | | | | | | |
| PWC0896 | GW-EB9-031313 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | (from PWC0898) | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.4 | 0.50 | ug/L | |
| | | | OU3-14M-M-031313** | Chloroform | 0.79 | 0.50 | ug/L | 0.79U |
| | | | | | | | | |
| PWC0898 | GW-EB8-031313 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | | | | Chloroform | 2.0 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.3 | 0.50 | ug/L | |
| | | | | | | | | |
| PWC0898 | GW-EB9-031313 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.4 | 0.50 | ug/L | |
| | | | OU3-19M-M-031313 | Bromodichloromethane | 0.58 | 0.50 | ug/L | 0.58U |
| | | | | Chloroform | 1.2 | 0.50 | ug/L | 1.2U |
| | | | EW-20-S-031313 | Chloroform | 1.4 | 0.50 | ug/L | 1.4U |
| | | | OU3-14D-D-031313 | | | | | NA, ND |
| | | | OU3-1M-M-031313 | Chloroform | 0.58 | 0.50 | ug/L | 0.58U |
| | | | | | | | | |
| PWC1000 | GW-EB10-031413 | 8260B | See below | Bromodichloromethane | 2.3 | 0.50 | ug/L | |
| | (from PWC1003) | | | Chloroform | 1.8 | 0.50 | ug/L | |

*Table C-3*
*Blank and Associated Suspect Sample Detections*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Blank ID | Method | Associated Samples | Detected Compound | Reported Concentration | Report Limit | Units | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|
| | | | | Dibromochloromethane | 2.6 | 0.50 | ug/L | |
| | | | OU3-1D-D031413** | | | | | NA, ND |
| | | | OU3-13D-D031413** | | | | | NA, ND |
| | | | | | | | | |
| PWC1003 | GW-EB10-031413 | 8260B | See below | Bromodichloromethane | 2.3 | 0.50 | ug/L | |
| | | | | Chloroform | 1.8 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.6 | 0.50 | ug/L | |
| | | | OU3-20S-S-031413-MS/MSD | | | | | NA, ND |
| | | | OU3-20M-M-031413 | | | | | NA, ND |
| | | | OU3-13M-M-031413 | | | | | NA, ND |
| | | | OU3-13M-M-031413-Q1 | | | | | NA, ND |
| | | | | | | | | |
| PWC1068 | GW-EB11-031513 | 8260B | See below | Bromodichloromethane | 2.1 | 0.50 | ug/L | |
| | | | | Chloroform | 1.7 | 0.50 | ug/L | |
| | | | | Dibromochloromethane | 2.4 | 0.50 | ug/L | |
| | | | EW-19D-D-031513 | | | | | NA, ND |
| | | | EW-19S-S-031513 | Chloroform | 2.1 | 0.50 | ug/L | 2.1U |
| | | | EW-19S-S-031513-Q1 | Chloroform | 2.2 | 0.50 | ug/L | 2.2U |
| | | | OU3-2M-M-031513-MS/MSD | Chloroform | 1.6 | 0.50 | ug/L | 1.6U |
| | | | | | | | | |

**Key:**

NA = No qualified result
U = Nondetected
>5X = Con

MB = Method blank
FT = Field blank
FA = ASTM water blank

R = Equipment Rinsate
ug/L = microgram per liter
>5X = Concentration in sample was more than 5X the blank concetnration

** = Sample underwent Tier 3 review

*Table C-4*
*Matrix Spike/Matrix Spike Duplicate Recoveries & RPDs Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | MS/MSD ID | Associated Sample | Method | Compound | MS (% R) | MSD (% R) | Limit (%) | RPD | RPD Limit | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| PWC0150 | EW-13-228-D-030413MS/ | EW-13-228-D-030413 | 8260B | ,2-Dibromo-3-chloropropar | 146 | 143 | 53-145 | 2 | ≤35 | J detects |
| | EW-13-228-D-030413MSD | | | Vinyl acetate | 178 | 171 | 47-150 | 4 | ≤35 | J detects |
| | | | | | | | | | | |
| PWC0492 | OU3-6D-D-030713-MS/MSDMS | OU3-6D-D-030713-MS/MSI | 8260B | Vinyl acetate | 158 | 190 | 47-150 | 18 | ≤35 | J detects |
| | OU3-6D-D-030713-MS/MSDMSD | | | 1,2-Dibromo-3-chloropropar | 125 | 147 | 53-145 | 16 | ≤35 | J detects |
| | | | | | | | | | | |
| PWC0675 | U3-16M-M-031113-MS/MSDMS | U3-16M-M-031113-MS/MSI | 8260B | ,2-Dibromo-3-chloropropar | 152 | 146 | 53-145 | 4 | ≤35 | J detects |
| | OU3-16M-M-031113-MS/MSDMSD** | | | Vinyl acetate | 167 | 162 | 47-150 | 3 | ≤35 | J detects |
| | | | | | | | | | | |
| PWC0898 | OU3-19M-M-031313MS/ | OU3-19M-M-031313 | 8260B | Vinyl acetate | 171 | 145 | 47-150 | 16 | ≤35 | J detects |
| | OU3-19M-M-031313MSD | | | | | | | | | |
| | | | | | | | | | | |
| PWC0898 | GW-EB9-031313MS/ | GW-EB9-031313 | 8260B | Vinyl acetate | 169 | 176 | 47-150 | 0.4 | ≤35 | J detects |
| | GW-EB9-031313MSD | | | | | | | | | |
| | | | | | | | | | | |
| PWC1003 | OU3-20S-S-031413-MS/MSDMS | OU3-20S-S-031413-MS/MSI | 8260B | Vinyl acetate | 154 | 148 | 47-150 | 4 | ≤35 | J detects |
| | OU3-20S-S-031413-MS/MSDMSD | | | | | | | | | |
| | | | | | | | | | | |
| PWC1068 | OU3-2M-M-031513-MS/MSDMS | OU3-2M-M-031513-MS/MSI | 8260B | Vinyl acetate | 160 | 153 | 47-150 | 4 | ≤35 | J detects |
| | OU3-2M-M-031513-MS/MSDMSD | | | | | | | | | |
| | | | | | | | | | | |
| PWC0675 | U3-16M-M-031113-MS/MSDM | U3-16M-M-031113-MS/MSI | 8270C | 1,4-Dioxane | 317 | 109 | 70-130 | 91 | ≤25 | J detects |
| | OU3-16M-M-031113-MS/MSDMSD | | | | | | | | | |
| | | | | | | | | | | |

**Key:**
J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
RPD = Relative percent difference
>4X spike = Parent concentration more than 4X the spike amount in the MS/MSD

** = Sample underwent Tier 3 review

*Table C-5*
*Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries & RPDs Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | LCS/LCSD ID | Associated Sample | Method | Compound | LCS (% R) | LCSD (% R) | Limit (%) | RPD | RPD Limit | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| PWC0150 | 13C0265-BS1/BSD1 | GW-L1-1-030413 | 8260B | Vinyl acetate | 179 | 185 | 67-148 | 4 | ≤22 | J detects |
| | | EW-13-268-D-030413 | | | | | | | | |
| | | EW-13-228-D-030413 | | | | | | | | |
| | | EW-13-168-M-030413 | | | | | | | | |
| | | EW-13-118-S-030413 | | | | | | | | |
| | | GW-EB1-030413 | | | | | | | | |
| | | DT-DW-5-S-030413 | | | | | | | | |
| | | | | | | | | | | |
| PWC0353 | 13C0265-BS1/BSD1 | OU3-11M2-M-030613 | 8260B | Vinyl acetate | 179 | 185 | 67-148 | 4 | ≤22 | J detects |
| | | OU3-11M-M-030613 | | | | | | | | |
| | | OU3-11M-M-030613-Q1 | | | | | | | | |
| | | OU3-11S-S-030613 | | | | | | | | |
| | | OU3-12M-M-030613 | | | | | | | | |
| | | GW-EB2-030613 | | | | | | | | |
| | | GW-L1-2-030613 | | | | | | | | |
| | | | | | | | | | | |
| PWC0354 | 13C0265-BS1/BSD1 | OU3-12D-D-030613** | 8260B | Vinyl acetate | 179 | 185 | 67-148 | 4 | ≤22 | J detects |
| | | | | | | | | | | |
| PWC0492 | 13C0383-BS1/BSD1 | OU3-6D-D-030713-MS/MSD | 8260B | -Dibromo-3-chloroprop | 162 | 158 | 63-146 | 3 | ≤22 | J detects |
| | | OU3-7M2-M-030713 | | Vinyl acetate | 168 | 164 | 67-148 | 3 | ≤22 | J detects |
| | | OU3-7M2-M-030713-Q1 | | | | | | | | |
| | | OU3-7S-S-030713 | | | | | | | | |
| | | GB-EB3-030713 | | | | | | | | |
| | | GW-L1-3-030713 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| PWC0493 | 13C0383-BS1/BSD1 | OU3-6M-M-030713** | 8260B | -Dibromo-3-chloroprop | 162 | 158 | 63-146 | 3 | ≤22 | J detects |
| | | OU3-17S-S-030713** | | Vinyl acetate | 168 | 164 | 67-148 | 3 | ≤22 | J detects |
| | | OU3-4S-S-030713** | | | | | | | | |
| | | | | | | | | | | |
| PWC0592 | 13C0383-BS1/BSD1 | OU3-9M2-M-030813 | 8260B | -Dibromo-3-chloroprop | 162 | 158 | 63-146 | 3 | ≤22 | J detects |
| | | OU3-9M2-M-030813-Q1 | | Vinyl acetate | 168 | 164 | 67-148 | 3 | ≤22 | J detects |

*Table C-5*
*Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries & RPDs Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | LCS/LCSD ID | Associated Sample | Method | Compound | LCS (% R) | LCSD (% R) | Limit (%) | RPD | RPD Limit | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OU3-9S-S-030813 | | | | | | | | |
| | | OU3-8M2-M-030813 | | | | | | | | |
| | | OU3-8M2-M-030813-Q1 | | | | | | | | |
| | | GW-EB4-030813 | | | | | | | | |
| | | | | | | | | | | |
| PWC0592 | 13C0447-BS1/BSD1 | GW-LI-4-030813 | 8260B | Acetone | 156 | 109 | 10-150 | 36 | ≤35 | J/UJ |
| | | | | sec-Butylbenzene | 125 | 137 | 70-130 | 9 | ≤20 | J detects |
| | | | | tert-Butylbenzene | 126 | 141 | 70-130 | 11 | ≤20 | J detects |
| | | | | Isopropylbenzene | 135 | 149 | 88-141 | 10 | ≤20 | J detects |
| | | | | n-Propylbenzene | 127 | 139 | 70-130 | 9 | ≤20 | J detects |
| | | | | | | | | | | |
| PWC0592 | 13C0485-BS1/BSD1 | OU3-8S-S-030813-MS/MSD | 8260B | Acetone | 163 | 123 | 10-150 | 28 | ≤35 | J detects |
| | | | | Vinyl acetate | 160 | 142 | 67-148 | 12 | ≤22 | J detects |
| | | | | | | | | | | |
| PWC0593 | 13C0447-BS1/BSD1 | OU3-8D-D-030813** | 8260B | Acetone | 156 | 109 | 10-150 | 36 | ≤35 | J/UJ |
| | | | | sec-Butylbenzene | 125 | 137 | 70-130 | 9 | ≤20 | J detects |
| | | | | tert-Butylbenzene | 126 | 141 | 70-130 | 11 | ≤20 | J detects |
| | | | | Isopropylbenzene | 135 | 149 | 88-141 | 10 | ≤20 | J detects |
| | | | | n-Propylbenzene | 127 | 139 | 70-130 | 9 | ≤20 | J detects |
| | | | | | | | | | | |
| | | | | | | | | | | |
| PWC0675 | 13C0501-BS1/BSD1 | U3-16M-M-031113-MS/MSD* | 8260B | Vinyl acetate | 165 | 177 | 67-148 | 7 | ≤22 | J detects |
| | | | | | | | | | | |
| PWC0675 | 13C0447-BS1/BSD1 | OU3-10M-M-031113** | 8260B | Acetone | 156 | 109 | 10-150 | 36 | ≤35 | J/UJ |
| | | | | sec-Butylbenzene | 125 | 137 | 70-130 | 9 | ≤20 | J detects |
| | | | | tert-Butylbenzene | 126 | 141 | 70-130 | 11 | ≤20 | J detects |
| | | | | Isopropylbenzene | 135 | 149 | 88-141 | 10 | ≤20 | J detects |
| | | | | n-Propylbenzene | 127 | 139 | 70-130 | 9 | ≤20 | J detects |
| | | | | | | | | | | |
| PWC0676 | 13C0485-BS1/BSD1 | EW-21-S-031113 | 8260B | Acetone | 163 | 123 | 10-150 | 28 | ≤35 | J detects |
| | | | | Vinyl acetate | 160 | 142 | 67-148 | 12 | ≤22 | J detects |
| | | | | | | | | | | |
| PWC0676 | 13C0501-BS1/BSD1 | OU3-10s-S-031113-Q1 | 8260B | Vinyl acetate | 165 | 177 | 67-148 | 7 | ≤22 | J detects |

*Table C-5*
*Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries & RPDs Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | LCS/LCSD ID | Associated Sample | Method | Compound | LCS (% R) | LCSD (% R) | Limit (%) | RPD | RPD Limit | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| | | GW-EB5-031113 | | | | | | | | |
| | | GW-R1-1-031113 | | | | | | | | |
| | | GW-EB6-031113 | | | | | | | | |
| | | GW-L1-5-031113 | | | | | | | | |
| | | | | | | | | | | |
| PWC0676 | 13C0558-BS1/BSD1 | OU3-16s-S-031113-Q1 | 8260B | Vinyl acetate | 171 | 145 | 67-148 | 17 | ≤22 | J detects |
| | | OU3-10M2-M-031113 | | Acetone | 134 | 90 | 10-150 | 40 | ≤35 | J/UJ |
| | | OU3-10s-S-031113 | | | | | | | | |
| | | | | | | | | | | |
| PWC0676 | 13C0599-BS1/BSD1 | OU3-16s-S-031113 | 8260B | Vinyl acetate | 172 | 172 | 67-148 | 0.07 | ≤22 | J detects |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| PWC0755 | 13C0509-BS1/BSD1 | OU3-5DR-D-031213 | 8260B | n-Butylbenzene | 131 | 121 | 70-130 | 8 | ≤20 | J detects |
| | | GW-LI-6-031213 | | sec-Butylbenzene | 135 | 122 | 70-130 | 10 | ≤20 | J detects |
| | | | | tert-Butylbenzene | 139 | 125 | 70-130 | 10 | ≤20 | J detects |
| | | | | Isopropylbenzene | 149 | 134 | 88-141 | 10 | ≤20 | J detects |
| | | | | n-Propylbenzene | 140 | 126 | 70-130 | 10 | ≤20 | J detects |
| | | | | Vinyl acetate | 149 | 137 | 67-148 | 8 | ≤22 | J detects |
| | | | | 1,1-Dichloroethene | 128 | 119 | 75-125 | 7 | ≤22 | J detects |
| | | | | 1,1,2,2-Tetrachloroethan | 126 | 110 | 80-120 | 14 | ≤20 | J detects |
| | | | | | | | | | | |
| PWC0755 | 13C0558-BS1/BSD1 | OU3-5MR-M-031213 | 8260B | Vinyl acetate | 171 | 145 | 67-148 | 17 | ≤22 | J detects |
| | | OU3-5SR-S-031213 | | Acetone | 134 | 90 | 10-150 | 40 | ≤35 | J/UJ |
| | | GW-EB7-031213 | | | | | | | | |
| | | | | | | | | | | |
| PWC0756 | 13C0558-BS1/BSD1 | OU3-5M2-M-031213** | 8260B | Vinyl acetate | 171 | 145 | 67-148 | 17 | ≤22 | J detects |
| | | | | Acetone | 134 | 90 | 10-150 | 40 | ≤35 | J/UJ |
| | | | | | | | | | | |
| PWC0896 | 13C0558-BS1/BSD1 | OU3-14M-M-031313** | 8260B | Vinyl acetate | 171 | 145 | 67-148 | 17 | ≤22 | J detects |
| | | | | Acetone | 134 | 90 | 10-150 | 40 | ≤35 | J/UJ |

*Table C-5*
*Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries & RPDs Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | LCS/LCSD ID | Associated Sample | Method | Compound | LCS (% R) | LCSD (% R) | Limit (%) | RPD | RPD Limit | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| PWC0898 | 13C0558-BS1/BSD1 | OU3-19M-M-031313 | 8260B | Vinyl acetate | 171 | 145 | 67-148 | 17 | ≤22 | J detects |
| | | EW-20-S-031313 | | Acetone | 134 | 90 | 10-150 | 40 | ≤35 | J/UJ |
| | | GW-EB8-031313 | | | | | | | | |
| | | OU3-14D-D-031313 | | | | | | | | |
| | | GW-L1-7-031313 | | | | | | | | |
| | | | | | | | | | | |
| PWC0898 | 13C0599-BS1/BSD1 | OU3-1M-M-031313 | 8260B | Vinyl acetate | 172 | 172 | 67-148 | 0.07 | ≤22 | J detects |
| | | GW-EB9-031313 | | | | | | | | |
| PWC1000 | 13C0698-BS1/BSD1 | OU3-1D-D031413** | 8260B | Vinyl acetate | 164 | 173 | 67-148 | 5 | ≤22 | J detects |
| | | OU3-13D-D031413** | | | | | | | | |
| | | | | | | | | | | |
| PWC1003 | 13C0698-BS1/BSD1 | OU3-20S-S-031413-MS/MSD | 8260B | Vinyl acetate | 164 | 173 | 67-148 | 5 | ≤22 | J detects |
| | | OU3-20M-M-031413 | | | | | | | | |
| | | OU3-13M-M-031413 | | | | | | | | |
| | | OU3-13M-M-031413-Q1 | | | | | | | | |
| | | GW-EB10-031413 | | | | | | | | |
| | | GW-L1-8-031413 | | | | | | | | |
| | | | | | | | | | | |
| PWC1068 | 13C0907-BS1/BSD1 | EW-19D-D-031513 | 8260B | 1,2,3-Trichlorobenzene | 76 | 80 | 79-139 | 6 | ≤20 | J/UJ |
| | | EW-19S-S-031513 | | Vinyl acetate | 157 | 153 | 67-148 | 3 | ≤22 | J detects |
| | | EW-19S-S-031513-Q1 | | | | | | | | |
| | | OU3-2M-M-031513-MS/MSD | | | | | | | | |
| | | GW-EB11-031513 | | | | | | | | |
| | | GW-L1-9-031513 | | | | | | | | |
| | | | | | | | | | | |

**Key:**
J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
RPD = Relative percent difference

** = Sample underwent Tier 3 review

*Table C-6*
*Internal Standard Areas Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Sample ID | Compound | Method | Associated Compounds | IS Area | Lower Limit | Upper Limit | LDC Qualifier |
|---|---|---|---|---|---|---|---|---|
| PWC0354 | OU3-12D-D-030613** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 79325 | 158499 | 633994 | J/UJ |
| | | | | | | | | |
| PWC0493 | OU3-6M-M-030713** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 95168 | 121416 | 485662 | J/UJ |
| | OU3-17S-S-030713** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 101931 | 121416 | 485662 | J/UJ |
| | OU3-4S-S-030713** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 107518 | 121416 | 485662 | J/UJ |
| | | | | | | | | |
| PWC0675 | J3-16M-M-031113-MS/MSD | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 86760 | 158499 | 633994 | J/UJ |
| | OU3-10M-M-031113** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 94523 | 159527 | 638108 | J/UJ |
| | | | | | | | | |
| PWC0756 | OU3-5M2-M-031213** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 70121 | 159527 | 638108 | J/UJ |
| | | | | | | | | |
| PWC0896 | OU3-14M-M-031313** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 79376 | 290820 | 1163280 | J/UJ |
| | | | | | | | | |
| PWC1000 | OU3-1D-D031413** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 63114 | 145410 | 581640 | J/UJ |
| | OU3-13D-D031413** | 1,4-Dioxane-d8 | 8270C | 1,4-Dioxane | 67764 | 145410 | 581640 | J/UJ |
| | | | | | | | | |

**Key:**
J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
RPD = Relative percent difference
** = Sample underwent Tier 3 review

*Table C-7*
*Surrogate Spike Recoveries Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Sample ID | Surrogate | Method | Percent Recovery (%R) | Limit (%R) | Associated Compounds | LDC Qualifier |
|---|---|---|---|---|---|---|---|
| PWC0150 | EW-13-268-D-030413 | 1,4-Dioxane-d8 | 8270C | 60 | 32-57 | 1,4-Dioxane | J detects |
| | EW-13-228-D-030413 | 1,4-Dioxane-d8 | 8270C | 23 | 32-57 | 1,4-Dioxane | J/UJ |
| | EW-13-168-M-030413 | 1,4-Dioxane-d8 | 8270C | 31 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-EB1-030413 | 1,4-Dioxane-d8 | 8270C | 75 | 32-57 | 1,4-Dioxane | J detects |
| | DT-DW-5-S-030413 | 1,4-Dioxane-d8 | 8270C | 74 | 32-57 | 1,4-Dioxane | J detects |
| | | | | | | | |
| PWC0353 | OU3-11M2-M-030613 | 1,4-Dioxane-d8 | 8270C | 28 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-11M-M-030613 | 1,4-Dioxane-d8 | 8270C | 28 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-11M-M-030613-Q1 | 1,4-Dioxane-d8 | 8270C | 20 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-11S-S-030613 | 1,4-Dioxane-d8 | 8270C | 31 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-12M-M-030613 | 1,4-Dioxane-d8 | 8270C | 31 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-EB2-030613 | 1,4-Dioxane-d8 | 8270C | 28 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0354 | OU3-12D-D-030613** | 1,4-Dioxane-d8 | 8270C | 27 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0492 | GB-EB3-030713 | 1,4-Dioxane-d8 | 8270C | 8 | 32-57 | 1,4-Dioxane | J/R |
| | | Nitrobenzene-d5 | 8270C | 17 | 38-125 | | |
| | GB-EB3-030713RE | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0592 | OU3-9M2-M-030813-Q1 | 1,4-Dioxane-d8 | 8270C | 69 | 32-57 | 1,4-Dioxane | J detects |
| | OU3-9S-S-030813 | 1,4-Dioxane-d8 | 8270C | 72 | 32-57 | 1,4-Dioxane | J detects |
| | OU3-8M2-M-030813 | 1,4-Dioxane-d8 | 8270C | 70 | 32-57 | 1,4-Dioxane | J detects |
| | OU3-8M2-M-030813-Q1 | 1,4-Dioxane-d8 | 8270C | 76 | 32-57 | 1,4-Dioxane | J detects |
| | OU3-8S-S-030813-MS/MSD | 1,4-Dioxane-d8 | 8270C | 10 | 32-57 | 1,4-Dioxane | J/UJ |
| | | Nitrobenzene-d5 | 8270C | 13 | 38-125 | | |
| | OU3-8S-S-030813-MS/MSDR | 1,4-Dioxane-d8 | 8270C | 75 | 32-57 | 1,4-Dioxane | J detects |
| | GW-EB4-030813 | 1,4-Dioxane-d8 | 8270C | 63 | 32-57 | 1,4-Dioxane | J detects |
| PWC0593 | OU3-8D-D-030813** | 1,4-Dioxane-d8 | 8270C | 66 | 32-57 | 1,4-Dioxane | J detects |
| | | | | | | | |
| PWC0675 | J3-16M-M-031113-MS/MSD | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0676 | OU3-16s-S-031113 | 1,4-Dioxane-d8 | 8270C | 30 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-16s-S-031113-Q1 | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |

*Table C-7*
*Surrogate Spike Recoveries Outside of Acceptable Limits*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Sample ID | Surrogate | Method | Percent Recovery (%R) | Limit (%R) | Associated Compounds | LDC Qualifier |
|---|---|---|---|---|---|---|---|
| | OU3-10s-S-031113 | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-10s-S-031113-Q1 | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-R1-1-031113 | 1,4-Dioxane-d8 | 8270C | 28 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-EB6-031113 | 1,4-Dioxane-d8 | 8270C | 6 | 32-57 | 1,4-Dioxane | J/R |
| | | Nitrobenzene-d5 | 8270C | 13 | 38-125 | | |
| | GW-EB6-031113RE | 1,4-Dioxane-d8 | 8270C | 72 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0755 | OU3-5DR-D-031213 | 1,4-Dioxane-d8 | 8270C | 27 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-5MR-M-031213 | 1,4-Dioxane-d8 | 8270C | 24 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-5SR-S-031213 | 1,4-Dioxane-d8 | 8270C | 24 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-EB7-031213 | 1,4-Dioxane-d8 | 8270C | 27 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0756 | OU3-5M2-M-031213** | 1,4-Dioxane-d8 | 8270C | 26 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC0896 | OU3-14M-M-031313** | 1,4-Dioxane-d8 | 8270C | 30 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| PWC0898 | OU3-19M-M-031313 | 1,4-Dioxane-d8 | 8270C | 25 | 32-57 | 1,4-Dioxane | J/UJ |
| | EW-20-S-031313 | 1,4-Dioxane-d8 | 8270C | 30 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-EB8-031313 | 1,4-Dioxane-d8 | 8270C | 24 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-14D-D-031313 | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-1M-M-031313 | 1,4-Dioxane-d8 | 8270C | 24 | 32-57 | 1,4-Dioxane | J/UJ |
| | GW-EB9-031313 | 1,4-Dioxane-d8 | 8270C | 24 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC1000 | OU3-1D-D031413** | 1,4-Dioxane-d8 | 8270C | 26 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-13D-D031413** | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC1003 | OU3-20S-S-031413-MS/MSD | 1,4-Dioxane-d8 | 8270C | 29 | 32-57 | 1,4-Dioxane | J/UJ |
| | OU3-13M-M-031413 | 1,4-Dioxane-d8 | 8270C | 27 | 32-57 | 1,4-Dioxane | J/UJ |

***Table C-7***
***Surrogate Spike Recoveries Outside of Acceptable Limits***
***Operable Unit 3***
***Motorola 52nd Superfund Site, Semi-Annual 2013***

| Lab Package | Sample ID | Surrogate | Method | Percent Recovery (%R) | Limit (%R) | Associated Compounds | LDC Qualifier |
|---|---|---|---|---|---|---|---|
| | OU3-13M-M-031413-Q1 | 1,4-Dioxane-d8 | 8270C | 31 | 32-57 | 1,4-Dioxane | J/UJ |
| | | | | | | | |
| PWC1068 | EW-19D-D-031513 | 1,4-Dioxane-d8 | 8270C | 30 | 32-57 | 1,4-Dioxane | J/UJ |
| | EW-19S-S-031513-Q1 | 1,4-Dioxane-d8 | 8270C | 5 | 32-57 | 1,4-Dioxane | J/R |
| | | Nitrobenzene-d5 | 8270C | 16 | 38-125 | | |
| | | | | | | | |

**Key:**
J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
RPD = Relative percent difference
** = Sample underwent Tier 3 review

*Table C-8*
*Field Duplicate Results and Calculated Relative Percent Differences*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Method | Primary Sample ID/ Duplicate Sample ID | Compound | Concentration Sample | Concentration Duplicate | RPD Limit | Difference Limit | Difference Units | Primary RL | Duplicate RL | Difference | RPD (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PWC0492 | 8260B | OU3-7M2-M-030713/ | Chloroform | 0.54 | 0.54 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0 | NA |
| | | OU3-7M2-M-030713-Q1 | Tetrachloroethene | 1.4 | 1.3 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | Trichloroethene | 0.87 | 0.77 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | | | | | | | | | | |
| PWC0592 | 8260B | OU3-9M2-M-030813/ | Chloroform | 1.7 | 1.8 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | OU3-9M2-M-030813-Q1 | Tetrachloroethene | 2.9 | 2.7 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 7 |
| | | | Trichloroethene | 1.3 | 1.2 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | | | | | | | | | | |
| PWC0592 | 8260B | OU3-8M2-M-030813/ | Chloroform | 0.50 | 0.50 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0 | NA |
| | | OU3-8M2-M-030813-Q1 | cis-1,2-Dichloroethene | 1.4 | 1.7 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.3 | NA |
| | | | Tetrachloroethene | 0.76 | 0.72 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.04 | NA |
| | | | Trichloroethene | 17 | 17 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 0 |
| | | | | | | | | | | | | |
| PWC0676 | 8260B | OU3-16s-S-031113/ | Chloroform | 2.0 | 2.4 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.4 | NA |
| | | OU3-16s-S-031113-Q1 | 1,1-Dichloroethane | 3.3 | 4.1 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 22 |
| | | | 1,1-Dichloroethene | 4.3 | 5.4 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 4 |
| | | | cis-1,2-Dichloroethene | 5.2 | 7.2 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 32 |
| | | | Tetrachloroethene | 1.2 | 1.5 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.3 | NA |
| | | | Trichloroethene | 26 | 32 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 21 |
| | | | | | | | | | | | | |
| PWC0676 | 8260B | OU3-10s-S-031113 | Chloroform | 3.1 | 3.5 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 12 |
| | | OU3-10s-S-031113-Q1 | 1,1-Dichloroethane | 0.76 | 0.84 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.08 | NA |
| | | | 1,1-Dichloroethene | 1.1 | 1.0 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | cis-1,2-Dichloroethene | 0.84 | 0.99 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.15 | NA |
| | | | Trichloroethene | 3.8 | 4.1 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 8 |
| | | | Trichlorofluoromethane | 0.51 | 0.65 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.14 | NA |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| PWC1003 | 8260B | OU3-13M-M-031413/ | cis-1,2-Dichloroethene | 2.1 | 2.1 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0 | NA |
| | | OU3-13M-M-031413-Q1 | Trichloroethene | 22 | 22 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 0 |
| | | | Trichlorofluoromethane | 0.52 | 0.50 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.02 | NA |
| | | | Tetrachloroethene | 0.50U | 0.50 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0 | NA |

*Table C-8*
*Field Duplicate Results and Calculated Relative Percent Differences*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Method | Primary Sample ID/ Duplicate Sample ID | Compound | Concentration Sample | Concentration Duplicate | RPD Limit | Difference Limit | Difference Units | Primary RL | Duplicate RL | Difference | RPD (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| PWC1068 | 8260B | EW-19S-S-031513/ | Chloroform | 2.1 | 2.2 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | EW-19S-S-031513-Q1 | 1,1-Dichloroethane | 1.6 | 1.7 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | 1,1-Dichloroethene | 2.2 | 2.3 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | cis-1,2-Dichloroethene | 2.2 | 2.3 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.1 | NA |
| | | | Tetrachloroethene | 0.63 | 0.57 | NA | ≤0.50 | ug/L | 0.50 | 0.50 | 0.06 | NA |
| | | | Trichloroethene | 9.4 | 9.3 | ≤20 | NA | ug/L | 0.50 | 0.50 | NA | 1 |
| | | | | | | | | | | | | |
| PWC0676 | 8270C | OU3-16s-S-031113/ | 1,4-Dioxane | 2.0 | 1.9 | NA | ≤1.0 | ug/L | 1.0 | 1.0 | 0.1 | NA |
| | | OU3-16s-S-031113-Q1 | | | | | | | | | | |
| | | | | | | | | | | | | |

**Key:**
NC = Not calculated, one result was detected and the other result was nondetected
ug/L = microgram per liter
** = Sample underwent Tier 3 review
RPD = Relative percent difference; used when sample results are >5x the reporting limit
Difference = used when a sample result is less than 5x the reporting limit
mg/L = milligram per liter

*Table C-9*
*Compound Quantitation Results and Multiple Sample Results*
*Operable Unit 3*
*Motorola 52nd Superfund Site, Semi-Annual 2013*

| Lab Package | Method | Sample ID | Compound | Reason | LDC Qualifier |
|---|---|---|---|---|---|
| PWC0492 | 8270C | GB-EB3-030713 | 1,4-Dioxane | The reanalyzed result is more usable | X |
| | | | | | |
| PWC0592 | 8270C | J3-8S-S-030813-MS/MSDI | 1,4-Dioxane | The original result is more usable | X |
| | | | | | |
| PWC0676 | 8270C | GW-EB6-031113 | 1,4-Dioxane | The reanalyzed result is more usable | X |
| | | | | | |
| PWC1068 | 8270C | EW-19S-S-031513-Q1 | 1,4-Dioxane | The reanalyzed result is more usable | X |
| | | | | | |

**Key:**
X = More than one result was reported for the sample; the least technically acceptable result was flagged as not reportable.
J = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
**Indicates sample underwent Level IV review
TCL = Target Compound List