

Fourth Quarter 2012 Groundwater Monitoring and Sampling Report

Maryland Square PCE Site
3661 South Maryland Parkway
Las Vegas, Nevada

Cardno ATC Project No. 085.42620.0001



Prepared for
Herman Kishner Trust
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January 15, 2013

Executive Summary

January 15, 2013

Herman Kishner Trust
c/o Mr. Tom Vandenberg, Esq.
707 Wilshire Boulevard, 45th Floor
Los Angeles, California 90017

Re: Fourth Quarter 2012 Groundwater Monitoring and Sampling Report
Maryland Square PCE Site
3661 South Maryland Parkway
Las Vegas, Nevada
NDEP Facility ID No. H-000086

Dear Mr. Vandenberg:

Cardno ATC is submitting this report documenting the results of a recent quarterly groundwater monitoring event conducted at the Maryland Square PCE Site (site). The groundwater monitoring was conducted to evaluate dissolved chlorinated ethenes, specifically tetrachloroethene (PCE), detected in the soil and groundwater in the vicinity of the above referenced site in accordance with requests from the Nevada Division of Environmental Protection (NDEP).

Work Performed Fourth Quarter 2012

ATC is currently performing quarterly monitoring and sampling of 7 of the 42 site groundwater monitoring wells.

Current Phase of Project:	Monitoring and Sampling
Frequency of Sampling:	Groundwater: Select Wells Quarterly (Semi-annual for 2012 and 2013)
Frequency of Monitoring:	Groundwater: Select Wells Quarterly (Semi-annual for 2012 and 2013)
Purge Water Removed This Quarter:	12.65 gallons
Approximate Depth to Groundwater:	20.29 ft btoc
Groundwater Flow Direction:	Site Monitoring Network: East
Groundwater Analytical Methods:	VOCs by EPA 8260B
Average PCE Change Since Last Quarter:	-0.68% (wells with third quarter data)

Historical groundwater elevation data and analytical results are summarized in Table A-1. Current groundwater elevation data and analytical results are summarized in Table A-2. Site figures and groundwater analytical isoconcentration maps, are included as Figures 1 and 2. Groundwater field sampling forms and laboratory analytical reports are included in Appendix A and B, respectively.

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1 Background

The following chronology, prepared by others, summarizes the technical development of the site characterization and groundwater monitoring program:

November 2000: *Phase II Assessment Report*, dated November 28, 2000, and received by NDEP on July 25, 2001.

As the result of a property transaction, subsurface soil and groundwater conditions were investigated along the eastern boundary of the property by advancing one soil boring and converting it into a monitoring well (MW-1). Analysis of water samples collected from MW-1 confirmed PCE concentrations in groundwater at the property exceeded the established U.S. Environmental protection Agency (EPA) primary maximum contamination level (MCL) for PCE in drinking water of 5.0 micrograms per liter ($\mu\text{g/L}$) or parts per billion (ppb).

November 2000: *Spill Report*, telephone spill notification made dated November 29, 2000, and received and logged by NDEP on November 29, 2000.

Based on preliminary results obtained from the Phase II field investigation, a spill notification was called into NDEP and a spill report was recorded.

August 2001: *A through K Report*, dated August 22, 2001, and received by NDEP on September 11, 2001.

Per NDEP requirements, downgradient subsurface soil and groundwater conditions were investigated by advancing five additional soil borings in the vicinity of the Boulevard Mall parking garage and converting the borings into monitoring wells (MW-2 through MW-6). Groundwater samples collected from these wells exhibited concentrations of PCE and trichloroethene (TCE) exceeding 5 $\mu\text{g/L}$, which is the primary MCL for both compounds.

November 2002: *Additional Soil and Groundwater Investigation Report*, dated November 13, 2002, and received by NDEP on November 18, 2002.

Converse Consultants (Converse) completed an additional soil and groundwater investigation beneath the shopping center building located on the property and on the Boulevard Mall property. Five soil samples were collected from beneath the suite previously occupied by the dry cleaning facility. PCE was detected in four of these five soil samples at concentrations of 110 micrograms per kilogram ($\mu\text{g/kg}$) or ppb (in two samples), 170 $\mu\text{g/kg}$, and 15,000 $\mu\text{g/kg}$. At that time, the EPA Preliminary Remediation Goal (PRG) for PCE in industrial soil was 3,400 ppb, which was the concentration threshold used to compare screen investigation samples. PRGs have now been superseded by Regional Screening Levels (RSL), which are updated and revised biennially in even-numbered years.

Additionally, six groundwater monitoring wells were installed (MW-7 through MW-12) on the property and on the Boulevard Mall property. This additional investigation (1) indicated the presence of PCE in soil beneath the shopping center building, (2) established a lateral PCE boundary location upgradient on the property (MW-12), and (3) established the lateral extent of PCE-contaminated groundwater north of MW-3 on the Boulevard Mall Property.

May 2003: *Additional Soil and Groundwater Investigation Report*, dated May 16, 2003, and received by NDEP on May 16, 2003.

An additional well (MW-13) was installed on the Boulevard Mall property to evaluate the extent of PCE-contaminated groundwater to the northeast. The boring for well MW-13 was drilled to 29 feet below ground surface (bgs), the water level was measured at 17.25 feet bgs, and a soil sample was collected from the vadose zone at 14 feet bgs. This soil sample contained PCE at a concentration of 45 $\mu\text{g/kg}$. The groundwater sample

collected at this location exhibited a PCE concentration of 2,100 µg/L.

March 2004: ***Well Installation/Slug Testing/Groundwater Monitoring Report – 4th Quarter 2003 and 1st Quarter 2004***, dated March 26, 2004, and received by NDEP on March 26, 2004.

Subsurface soil conditions were explored by advancing eight soil borings and converting six of the borings into monitoring wells (MW-14 through MW-16 and MW-19 through MW-21). Groundwater samples collected at these locations in January 2004 exhibited dissolved PCE that ranged in concentration from below detection limits (MW-16) to 1,200 µg/L (MW-19).

During the same period, slug tests were performed on seven monitoring wells (MW-2, MW-3, MW-13, MW-15, MW-16, MW-19, and MW-20) to obtain hydraulic parameters required for designing a hydrogen release compound (HRC) groundwater treatment system. Hydraulic conductivities derived using the Bouwer-Rice method ranged from 1.9 to 17 feet per day, while those derived via the Hvorslev Method ranged from 0.8 to 6.4 feet per day.

February 2004: ***Correspondence from Dickerson, Dickerson, Consul & Pocker***, dated February 27, 2004, and received by NDEP on March 1, 2004.

AI Phillips the Cleaner (APTC) accepted responsibility for the release and assumed control of assessment activities from the Trust after which all site characterization and monitoring work was conducted by URS Corporation (URS). During this time, Converse was retained to review documents prepared by URS on behalf of the Trust.

July 2005: ***Report – Subsurface Investigation June 2005***, dated July 2005, and received by NDEP on July 11, 2005.

URS completed an additional soil and groundwater investigation and an investigation of the soil beneath the shopping center building located at the site. Seven soil borings (B-5 through B-12) were advanced at locations within the suite previously occupied by the dry cleaning facility. Soil samples were collected at 5-foot intervals from borings B-6 through B-10 to a total depth of 15 feet bgs, and at 2.5 and 3.5 feet bgs at boring locations B-11 and B-12. Three soil samples collected at B-8 (5 feet bgs) and B-10 (10 and 15 feet bgs) contained PCE concentrations above the industrial PRG (relevant at that time) of 3,400 ppb. In addition, five groundwater monitoring wells were installed on the property and in the residential neighborhood east of the Boulevard Mall (MW-17, MW-18, and MW-22 through MW-24).

April 2006: ***Report – Quarterly Groundwater Sampling and Additional Monitor Well Installation***, dated April 25, 2006, and received by NDEP on April 27, 2006.

Two additional groundwater monitoring wells (MW-26 and MW-27) were installed in March 2006 at locations representing the eastern end of the residential neighborhood. PCE concentrations of 730 and 220 µg/L in groundwater were observed at wells MW-26 and MW-27. TCE concentrations were reported to be below method detection limits.

February 2007: ***Source Area Soil Assessment***, dated February 23, 2007.

URS advanced 17 soil borings at the property to collect and analyze additional subsurface soil samples to refine the source area soil assessment. The report compiled analytical data profiling 24 soil samples collected from 12 borings advanced within the source area in 2002 and 2005, with new analytical data generated from 53 soil samples collected at 17 additional boring locations cited within the source area. A total of 77 subsurface soil data points representing conditions within the source area at the site were considered for assessment of soil in the source area, and URS proposed a remedial method, schedule, and site-specific cleanup level based on the examination of the derived data population.

April 2007: ***Report of Off-Site Soil Vapor Assessment***, dated April 13, 2007.

In March 2007, URS conducted an off-site soil vapor study in the Boulevard Mall parking lot and select locations in the residential area east of the mall. Soil vapor concentrations measured at total depth reportedly ranged from below method detection limits at soil vapor boring (SVB)-2, and 11 to 170,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at SVB-14.

September 2007: **Correspondence Issued from NDEP**, dated September 10, 2007.

Groundwater sampling procedures were changed for the project from a three volume purge-and-sample method to low-flow sampling using ASTM International (ASTM) D6771-02.

November 2007: **Installation of Downgradient Groundwater Monitoring Wells**, dated November 26, 2007.

URS installed three monitoring wells (MW-28 through MW-30) within the residential area in October 2007. These wells expanded the groundwater monitoring network farther to the eastern and south-southeastern portions of the residential area. PCE concentrations in groundwater samples collected from these wells ranged from 2.5 $\mu\text{g}/\text{L}$ at monitoring well location MW-29 to 74 $\mu\text{g}/\text{L}$ at monitoring well location MW-30. TCE concentrations were reported to be below method detection limits.

March 2008: **Installation of Additional Downgradient Groundwater Monitoring Wells**, dated March 24, 2008.

URS constructed three additional groundwater monitoring wells (MW-31 through MW-33), two of which bounded the east portion of the residential area, and the third bounded the east-northeast portion of the residential area. PCE concentrations in groundwater samples collected from these new wells ranged from 2.4 $\mu\text{g}/\text{L}$ at monitoring well location MW-33 to 720 $\mu\text{g}/\text{L}$ at monitoring well location W-32. TCE concentrations were reported to be below method detection limits.

July 2008: **Notice of Hearing to Consider First Day of Pleadings (Chapter 11)**, undated and received by NDEP on July 8, 2008.

APTC declared bankruptcy and URS discontinued work at the site. Converse, on behalf of the Trust, resumed quarterly monitoring, supported the litigation work, and prepared a remediation scope of work.

July 2010: **Quarterly Groundwater Monitoring Report – 2nd Quarter 2010**, dated July 23, 2010, and received by NDEP electronically on July 23, 2010.

Field activities and responsibilities were transferred from Converse to Tetra Tech EM Inc. (Tetra Tech) during the second quarter of 2010. Groundwater monitoring protocol and procedures used by Converse and accepted by NDEP were generally continued to maintain data consistency.

October 2010: **Quarterly Groundwater Monitoring Report – 3rd Quarter 2010**, dated October 22, 2010, and received at NDEP electronically on October 22, 2010; resubmitted with NDEP-requested modifications December 21, 2010.

December 2010: **Permanent Injunction Governing the Clean Up of Hazardous Substances at and Emanating from Maryland Square Shopping Center**, dated December 27, 2010, and received by NDEP on November 18, 2002.

The injunction dictated the schedule for remediation of the source area and groundwater at the site. It also decreed that groundwater monitoring should continue based on the previously defined NDEP schedule.

January 2011: **Quarterly Groundwater Monitoring Report – 4th quarter 2010**, dated January 21, 2011, and received at NDEP electronically on January 21, 2011.

February 2011: **Draft Plan for mitigation of Indoor Air and Well Water**, dated February 28, 2011, and received at NDEP electronically on February 28, 2011.

This work plan describes indoor air monitoring and additional groundwater characterization required by the permanent injunction delineates the PCE plume to 5 µg/L.

April 2011: *Quarterly Groundwater Monitoring Report – 1st Quarter 2011*, dated April 20, 2011, and received at NDEP electronically on April 20, 2011.

June 2011: *Draft Plan for Mitigation of Indoor Air and Well Water*, dated June 28, 2011, and received at NDEP electronically on April 20, 2011.

This work plan incorporated NDEP comments on the previously submitted draft.

July 2011: *Quarterly Groundwater Monitoring Report – 3rd Quarter 2011*, dated July 28, 2011, and received at NDEP electronically on July 28, 2011.

August 2011: *Addendum to the Draft Work Plan for Mitigation of Indoor Air and Well Water*, dated August 15, 2011, and received at NDEP electronically on August 15, 2011.

This addendum incorporated NDEP comments on the previously submitted draft.

Groundwater monitoring and sampling responsibilities transferred from Tetra Tech to Cardno ATC for the fourth quarter of 2011.

New Well Installation

A total of three monitoring wells have been installed since the 3rd Quarter of 2012.

Tetra Tech conducted the installation of wells MW-14I and MW-19I sometime in early August 2012.

Well MW-14I was constructed by the northeast corner of the eastern Boulevard Mall parking garage, just south of well MW-14. MW-14I has a screen interval from 40 to 55 feet bgs. Grab samples were collected during the advancement of the boring that was converted to well MW-14I. Groundwater samples were collected from depths of 30, 35, 45, 50, and 55 with PCE concentrations at 980 µg/L, 900 µg/L, 7,600 µg/L, 650 µg/L, and 1,700 µg/L respectively. It should be noted that the grab sample taken from 45 feet bgs was from a higher permeability zone which could indicate why the PCE concentration was significantly elevated compared with the other samples.

Well MW-19I is constructed to the east of the Boulevard Mall building in the parking lot, east of well MW-19. MW-19I has a screen interval from 34 to 54 feet bgs. Grab samples were collected during the advancement of the boring that was converted to well MW-14I. Groundwater samples were collected from depths of 36, 41, 49, 54, and 59 with PCE concentrations at 920 µg/L, 150 µg/L, 63 µg/L, 100 µg/L, and 700 µg/L respectively.

The PCE concentration from the sampling event in September was detected at 690 µg/L.

Tetra Tech also conducted the installation of well MW-40 CMT in early August 2012. Well MW-40 CMT was constructed east of the Boulevard Mall building in the parking lot, east of MW-20. CMT is a product manufactured by Sollinst that stands for continuous multichannel tubing, meaning that there are multiple tubings set at different depths in one borehole. The benefits of a CMT well is that each channel of tubing allows for discrete sampling at a particular depth which in turn gives a three dimensional view of contamination through the entire range of sampling depths, rather than an average of the entire well length. MW-40 CMT has seven tubings set at 30, 35, 40, 45, 50, 55, and 60 feet bgs. Each length of tubing has 0.5 feet of screen interval at the bottom of the tubing. Therefore, MW-40 CMT-30 will extend 30 feet bgs and have a screen interval from 30-30.5 feet bgs.

Grab samples were collected during the advancement of the boring that was converted to well MW-40 CMT. Groundwater samples were collected from depths of 32, 35, 40, 45, 50, 55, and 60 with PCE concentrations at 170 µg/L, 280 µg/L, 320 µg/L, 350 µg/L, 370 µg/L, 280 µg/L, and 1,100 µg/L respectively.

The PCE concentrations from the current sampling event ranged from 260 µg/L (MW-40 CMT-35) to 1,400 µg/L (MW-40 CMT-60).

2 Groundwater Monitoring and Sampling

Based on the observed site conditions, NDEP has directed monitoring of the site-related groundwater monitoring well network as outlined in its response letter to the Converse report titled "Groundwater Monitoring Report, 3rd Quarter 2009, Maryland Square Shopping Center," dated December 22, 2009.

Based on the revised schedule for the fourth quarter 2012 sampling event, which prescribes sampling at seven site-related active monitoring wells, each well was sampled to record groundwater characteristics and quantify volatile organic compound (VOC) concentrations. Depth to groundwater measurements were collected at active monitoring well locations.

As per agreement with NDEP, select monitoring wells are sampled in 2012 on a quarterly, semi-annual, or annual basis. The sampling schedule is based on the relative PCE concentrations detected in individual monitoring wells in addition to the proximity of a monitoring well to the ascertained plume area. The 2012 sampling schedule has been modified and approved by NDEP.

The NDEP modified the sampling schedule in response to Cardno ATC's "Letter Request to Adjust Sampling Schedule for Fourth Quarter 2012 and First Quarter 2013," dated October 26, 2012. The letter proposed that the 2012 monitoring be revised to include only wells MW-34 through MW-40 and that the sampling event for First Quarter 2013 be revised to include all site wells.

The NDEP approved 2013 annual sampling schedule for monitoring wells in the groundwater monitoring program is:

- First Quarter – MW-1 through MW-3, MW-5 through MW-40, MW-14I, and MW-19I (plus any newly installed wells)
- Second Quarter – MW-1, MW-5, MW-6, MW-9, MW-14, MW-17, MW-27, MW-34 through MW-40, MW-14I, and MW-19I (plus any newly installed wells)
- Third Quarter – MW-1, MW-5, MW-6, MW-9, MW-14, MW-17, MW-34 through MW-40, MW-14I, and MW-19I (plus any newly installed wells)
- Fourth Quarter – MW-1, MW-2, MW-5 through MW-9, MW-12, MW-13, MW-14, MW-17 through MW-20, MW-23, MW-25, MW-26, MW-27, MW-30, MW-31 through MW-40, MW-14I, and MW-19I (plus any newly installed wells)

The groundwater monitoring procedures are consistent with the protocol presented by URS in its August 2007 letter and accepted by NDEP in its September 10, 2007 letter. The prescribed groundwater monitoring protocol used at the site was revised to employ the ASTM D6771-02 method in the fourth quarter of 2007. This sampling method relies on low flow pumping that moderates the velocity of water entering the pump intake from the formation pore water surrounding the well. Minimized stress and turbulence within the water-bearing unit during pumping allows collection of groundwater samples generally considered more representative of water quality in the formation than the conventional method, which calls for excavation of three well volumes of groundwater using downhole pumps or bailers.

Groundwater parameters (i.e., pH, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and electrical conductivity) were measured to evaluate the entrance of actual formation water into the well. For consistency with previous events, Cardno ATC placed the inlet of the pump in the middle of the saturated zone for each well (between top of groundwater and bottom of well). Groundwater was pumped at a flow rate of 0.25 L/min. Following the stabilization of groundwater parameters, the pump rate was lowered to minimize turbulence and groundwater was transferred to clean laboratory-supplied 40-milliliter glass volatile organic analysis vials (VOAs), sealed, labeled, and placed in a cool environment for transport to an NDEP-certified laboratory for analysis.

The groundwater monitoring procedure for MW-40 CMT wells had to be modified due to the smaller tubing that didn't allow the low-flow pump to be lowered into the well casings. The method used for groundwater sampling was a ¼ inch mini-inertial pump with Teflon tubing. The mini-inertial pump works by inserting a footvalve in the bottom of the tubing and repeatedly raising and lowering the tubing approximately six inches in order to force water to the surface. The pump was set to the bottom of each well depth, and manual pumping continued at each depth until all groundwater parameters stabilized, and then groundwater was transferred to clean laboratory-supplied 40-milliliter glass volatile organic analysis vials (VOAs), sealed, labeled, and placed in a cool environment for transport to an NDEP-certified laboratory for analysis.

Decontamination procedures were performed throughout sampling. The pump, water level meter, and field meter probe were decontaminated after sampling each well. Purge water generated during the sampling of the monitoring wells was containerized in a properly labeled steel 55-gallon drum and stored onsite pending off-site disposal.

Cardno ATC submitted the collected groundwater samples to an NDEP-certified analytical laboratory for the analysis of volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B. Groundwater data collected during this sampling event are summarized in Table 1 and Table A-1. Monitoring and sampling field sheets are included in Appendix A.

2.1 Deviations

Trip, field, and equipment blanks were sent to the lab along with the groundwater samples collected at each monitoring well in order to insure quality control. Cardno ATC also collected duplicate groundwater samples from monitoring wells MW-34 and MW-39.

Laboratory analysis of each groundwater sample produced quantitative data within quality assurance standards. Surrogate compound recoveries associated with each field sample consistently verified proper analytical technique. No laboratory quality control data were flagged outside of established tolerances. The analytical data on water quality for the fourth quarter were accepted as representative of actual site conditions.

2.2 Groundwater Conditions

Groundwater elevations for this sampling event are summarized in Table 1, while historical groundwater data are summarized in Table A-1. Depths to groundwater in the wells sampled during this quarterly event ranged from 14.69 feet bgs (MW-38) to 25.51 feet bgs (MW-39). The average groundwater elevation exhibited an average increase of 0.46 feet across the site compared with similar wells from the Third Quarter 2012 groundwater monitoring event (MW-34 through MW-39). Based on the fourth quarter results, the local hydraulic gradient across the site is generally toward the east.

DO readings for MW-34 through MW-40 CMT ranged from 1.87 to 4.99 milligrams per liter (mg/L). ORP readings for MW-34 through MW-40 CMT ranged from -174.8 to 96.5 millivolts (mV).

2.3 Groundwater Analytical Results

On November 8th, 2012 through November 9th, 2012, Cardno ATC mobilized to the site to obtain groundwater samples from the existing groundwater monitoring wells (MW-34 through MW-39) and the new groundwater monitoring well MW-40 CMT over the vicinity of the site (Figure 2).

Groundwater samples were submitted to Advanced Technologies Laboratory (ATL) of Las Vegas, Nevada, an NDEP-certified laboratory, for the analysis of VOCs using EPA method 8260B.

The laboratory analytical results compared with qualitative changes in groundwater elevation and concentrations are summarized in Table 1. Laboratory analytical reports are provided in Appendix B.

Table 1: Groundwater Elevations, Current PCE/TCE Concentrations, and PCE/TCE Change, Fourth Quarter 2012 vs Third Quarter 2012

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Change in GW Elevation (feet)	Change in PCE (%)	Change in TCE (%)
MW-34	17.75	1976.13	550	1.1	+0.32	-24.66	+13.40
MW-35	18.55	1972.82	480	<0.50	+0.22	-7.69	N/A ²
MW-36	20.62	1934.68	150	<0.50	+0.93	+15.38	N/A ²
MW-37	19.66	1910.32	31	<0.50	+0.39	-3.13	N/A ²
MW-38	14.69	1893.69	5.9	<0.50	+0.26	+3.51	N/A ²
MW-39	25.51	1942.04	270	0.91	+0.59	+12.50	+9.64
MW-40 CMT-30	25.28	NM	340	1.1	N/A ¹	N/A ¹	N/A ¹
MW-40 CMT-35	25.30	NM	260	6.6	N/A ¹	N/A ¹	N/A ¹
MW-40 CMT-40	25.34	NM	320	1.7	N/A ¹	N/A ¹	N/A ¹
MW-40 CMT-45	25.28	NM	280	1.9	N/A ¹	N/A ¹	N/A ¹
MW-40 CMT-50	25.28	NM	300	2.5	N/A ¹	N/A ¹	N/A ¹
MW-40 CMT-55	25.33	NM	930	4.0	N/A ¹	N/A ¹	N/A ¹
MW-40 CMT-60	25.38	NM	1,400	11	N/A ¹	N/A ¹	N/A ¹

Notes: ¹Unable to evaluate change due to lack of data from current or previous quarter

²Unable to evaluate change due to one or both quarter's concentration reported below laboratory detection limits

NM = Not Measured, survey not completed

- Decrease in concentration or elevation

+ Increase in concentration or elevation

Amsl: Above Mean Sea Level

The groundwater locations selected for quarterly monitoring represent the most recently installed wells and cover the groundwater conditions at the Maryland Square site, Boulevard Mall site, and surrounding streets and golf course area. The range of groundwater elevations spanned from 1893.69 feet above mean sea level (amsl) (MW-38) to 1976.13 feet amsl (MW-34). Groundwater elevations are summarized in Tables 1, 1-A, and 2-A.

Groundwater elevations increased across all groundwater monitoring wells compared with the third quarter 2012 data. Application of a large volume of irrigation water at the golf course, especially during summer months, may influence water elevation in shallow groundwater measured in the monitoring wells. This influence is historically observed in MW-27, MW-28, MW-30, MW-31, MW-32, and MW-33.

PCE was detected in the groundwater samples collected from monitoring wells MW-34 through MW-39 and all depths in MW-40 CMT, at concentrations ranging from 5.9 µg/L (MW-38) to 1,400 µg/L (MW-40 CMT-60). PCE concentrations identified by the laboratory in the groundwater samples collected from all wells exceeded the maximum contaminant levels (MCL) for PCE in groundwater of 5 µg/L.

Duplicate samples were collected from MW-34, MW-39. In MW-34 concentrations of PCE were measured at 550 µg/L and 580 µg/L, a relative percent difference (RPD) of 5.31%. In MW-39, PCE concentrations were measured at 270 µg/L and 270 µg/L, a RPD of 0%. The duplicate sample results do not show significant statistical variation based on the levels of the concentrations.

PCE concentrations decreased an average of 0.68% in the monitoring wells sampled compared with the same wells sampled during the sampling event in Third Quarter 2012.

Trichloroethene (TCE) was detected at concentrations ranging from 0.91 µg/L to 11 µg/L in the groundwater samples collected from wells, MW-34, MW-39, and all seven depths of MW-40 CMT. The detected concentrations were below the MCL for TCE in groundwater of 5 µg/L, with the exception of MW-40 CMT-35 (6.6 µg/L) and MW-40 CMT-60 (11 µg/L).

Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-40 CMT-55 and MW-40 CMT-60 at concentrations of 1.7 µg/L and 6.3 µg/L, respectively. The detected concentrations were below the MCL for DCE in groundwater of 70 µg/L.

Vinyl chloride (VC) was not detected at concentrations in excess of laboratory detection levels (0.50 µg/L). The lack of detectable VC indicates that reductive dechlorination is not occurring within the monitoring zone.

3 Summary and Conclusions

Based on the results of this groundwater sampling event, Cardno ATC provides the following summary and conclusions:

- PCE was detected in the groundwater samples collected from monitoring wells MW-34 through MW-39 and all depths within MW-40 CMT, at concentrations ranging from 5.9 µg/L (MW-38) to 1,400 µg/L (MW-40 CMT-60).

3.1 Recommendations

Cardno ATC recommends continuing monitoring and sampling of the site monitoring wells in accordance with the NDEP approved 2012 and 2013 schedule.

For your convenience, a copy of this report has been forwarded to the NDEP case officer for review.

3.2 Limitations

This report has been prepared for the exclusive use of Herman Kishner Trust, as it pertains to Maryland Square PCE Site located at 3661 South Maryland Parkway, in Las Vegas, Nevada. Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions, or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. For these types of evaluations, it is often necessary to use information prepared by others and Cardno ATC cannot be responsible for the accuracy of such information. In addition, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does it warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any state, federal, or local real estate transfer laws.

It must be noted that no investigation can absolutely rule out the existence of any hazardous materials at a given site. This assessment has been based upon prior site history, observable conditions, and the subsurface soil sampling described in this report. Existing hazardous materials and contaminants can escape detection using these methods

4 Environmental Certification Jurat

This Fourth Quarter 2012 Groundwater Monitoring Report for Maryland Square PCE Site located at 3661 South Maryland Parkway, Las Vegas, Nevada, has been prepared in accordance with Nevada Administrative Code (NAC), Chapter 459, Section 9717.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable Federal, State and local statutes, regulations and ordinances.

If you have any questions or require additional information, please feel free to contact the undersigned at (702) 798-5750.

Sincerely,

Cardno ATC



Adam Katlein
Staff Scientist



Andrew D. Stuart
Senior Project Manager
Nevada Certified Environmental Manager
No. EM-1905 (Expires 01/26/13)

cc: Dr. Mary Siders, Nevada Division of Environmental Protection-Carson City, Nevada

Maryland Square PCE Site

TABLES

**Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Maryland Square Wells											
MW-1	Nov 12	1992.01	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-7	Nov 12	1989.78	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-8	Nov 12	1991.71	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-9	Nov 12	1992.25	NM	NM	48.5-50	NM	NM	NM	NS	NS	NS
MW-12	Nov 12	1995.95	NM	NM	13.5-33.5	NM	NM	NM	NS	NS	NS
MW-17	Nov 12	1991.04	NM	NM	15-30	NM	NM	NM	NS	NS	NS
MW-34	Nov 12	1993.88	17.75	1976.13	--	2.00	2.4	45.3	550	1.1	<0.50
MW-35	Nov 12	1991.37	18.55	1972.82	--	3.87	2.2	69.6	480	<0.50	<0.50
Boulevard Mall Wells											
MW-2	Nov 12	1983.53	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-3	Nov 12	1983.81	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-4	Mar 12	1989.86	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-5	Nov 12	1988.69	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-6	Nov 12	1988.12	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-10	Nov 12	1983.28	NM	NM	10-30	NM	NM	NM	NS	NS	NS

**Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Boulevard Mall Wells											
MW-11	Nov 12	1979.87	NM	NM	13.5-33.5	NM	NM	NM	NS	NS	NS
MW-13	Nov 12	1983.31	NM	NM	9-29	NM	NM	NM	NS	NS	NS
MW-14	Nov 12	1987.33	NM	NM	15-40	NM	NM	NM	NS	NS	NS
MW-14I	Nov 12	NM	NM	NM	40-55	NM	NM	NM	NS	NS	NS
MW-15	Nov 12	1982.74	NM	NM	15-32	NM	NM	NM	NS	NS	NS
MW-16	Nov 12	1980.53	NM	NM	19-32	NM	NM	NM	NS	NS	NS
MW-19	Nov 12	1980.13	NM	NM	19-35	NM	NM	NM	NS	NS	NS
MW-19I	Nov 12	1967.55	NM	NM	34-54	NM	NM	NM	NS	NS	NS
MW-20	Nov 12	1979.82	NM	NM	19-35	NM	NM	NM	NS	NS	NS
MW-21	Nov 12	1979.25	NM	NM	19-35	NM	NM	NM	NS	NS	NS
MW-40 CMT-30	Nov 12	NM	25.28	NM	30-30.5	2.57	2.3	-67.5	340	1.1	<0.50
MW-40 CMT-35	Nov 12	NM	25.30	NM	35-35.5	1.87	2.7	-162.7	260	6.6	<0.50
MW-40 CMT-40	Nov 12	NM	25.34	NM	40-40.5	2.04	2.0	-132.3	320	1.7	<0.50
MW-40 CMT-45	Nov 12	NM	25.28	NM	45-45.5	2.08	2.1	-159.4	280	1.9	<0.50
MW-40 CMT-50	Nov 12	NM	25.28	NM	50-50.5	2.04	2.2	-174.8	300	2.5	<0.50

**Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Boulevard Mall Wells											
MW-40 CMT-55	Nov 12	NM	25.33	NM	55-55.5	3.55	1.9	-55.4	930	4.0	1.7
MW-40 CMT-60	Nov 12	NM	25.38	NM	60-60.5	2.63	2.1	-128.3	1,400	11	6.3
Surrounding Streets and Golf Course											
MW-18	Nov 12	1962.90	NM	NM	5-25	NM	NM	NM	NS	NS	NS
MW-22	Nov 12	1975.19	NM	NM	15-35	NM	NM	NM	NS	NS	NS
MW-23	Nov 12	1962.45	NM	NM	5-25	NM	NM	NM	NS	NS	NS
MW-24	Nov 12	1960.82	NM	NM	5-25	NM	NM	NM	NS	NS	NS
MW-25	Nov 12	1959.29	NM	NM	5-25	NM	NM	NM	NS	NS	NS
MW-26	Nov 12	1953.45	NM	NM	10-35	NM	NM	NM	NS	NS	NS
MW-27	Nov 12	1944.15	NM	NM	10-35	NM	NM	NM	NS	NS	NS
MW-28	Nov 12	1943.07	NM	NM	15-35	NM	NM	NM	NS	NS	NS
MW-29	Nov 12	1932.35	NM	NM	15-35	NM	NM	NM	NS	NS	NS
MW-30	Nov 12	1940.59	NM	NM	20-40	NM	NM	NM	NS	NS	NS
MW-31	Nov 12	1937.66	NM	NM	13.5-33.5	NM	NM	NM	NS	NS	NS
MW-32	Nov 12	1952.90	NM	NM	13.5-33.6	NM	NM	NM	NS	NS	NS
MW-33	Nov 12	1950.98	NM	NM	13.5-33.7	NM	NM	NM	NS	NS	NS

**Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Surrounding Streets and Golf Course											
MW-36	Nov 12	1955.30	20.62	1934.68	17-37	2.09	2.7	70.8	150	<0.50	<0.50
MW-37	Nov 12	1929.98	19.66	1910.32	17-37	4.99	2.5	96.5	31	<0.50	<0.50
MW-38	Nov 12	1908.38	14.69	1893.69	15-35	3.64	2.5	88.9	5.9	<0.50	<0.50
MW-39	Nov 12	1967.55	25.51	1942.04	15-35	2.19	2.3	61.4	270	0.91	<0.50

Notes:

NM = Not Measured °C = degrees Celsius
 msl = mean sea level g/L = gallons per liter
 ND = Non Detect mg/L = milligrams per liter
 NS = Not Sampled mS/cm = milli Siemens per centimeter
 µg/L = micrograms per liter mV = millivolts
 NTU = Nephelometric Turbidity Units
 Bold value indicates concentration that exceeds regulatory standard.

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-1	Aug 00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Oct 00	1991.81	17.54	1974.27	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 02	1992.04	17.90	1974.14	NM	NM	NM	NM	NM	NM	NM	2,000	ND	ND	ND
	May 03	1992.04	18.70	1973.34	NM	NM	NM	NM	NM	NM	NM	870	ND	ND	ND
	Sep 03	1992.04	18.97	1973.07	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Jan 04	1992.04	19.30	1972.74	7.0	3.5	NM	0.9	22.50	NM	NM	1,700	ND	ND	ND
	May 05	1992.04	15.24	1976.8	7.0	4.0	441.0	5.4	26.00	NM	110	3,500	ND	ND	ND
	Sep 05	1992.04	16.74	1975.3	7.1	4.2	64.0	7.0	27.50	2.7	129	1,700	ND	ND	ND
	Dec 05	1992.04	17.61	1974.43	7.0	5.1	290.0	2.0	26.90	3.2	404	820	ND	ND	ND
	Mar 06	1992.04	18.42	1973.62	NM	5.6	>999	NM	23.10	3.7	545	420	ND	ND	ND
	Jun 06	1992.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1992.04	18.30	1973.74	6.3	3.7	81.0	4.6	26.70	2.4	129	1,100	ND	ND	ND
	Dec 06	1992.04	18.88	1973.16	6.7	4.4	>999	5.1	26.90	2.8	111	1,300	ND	ND	ND
	Mar 07	1992.04	20.08	1971.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1992.04	19.81	1972.23	7.0	2.3	611.0	6.2	25.70	1.4	468	450	ND	ND	ND
	Sep 07	1992.04	18.39	1973.65	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1992.04	19.01	1973.03	6.4	3.9	15.0	5.5	22.20	2.5	223	710	ND	ND	ND
	Mar 08	1992.04	20.03	1972.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1992.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	260	ND	ND	ND
	Oct 08	1992.01	19.82	1972.19	6.6	3.7	62.4	1.1	27.10	2.4	130	460	ND	ND	ND
	Feb 09	1992.01	19.65	1972.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1992.01	19.88	1972.13	7.1	3.7	39.6	1.6	26.20	2.4	101	NS	NS	NS	NS
	Jul 09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	590	ND	ND	ND
	Sep 09	1992.01	19.90	1970.11	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1992.01	20.33	1971.68	6.3	3.4	-10.0	1.5	26.90	2.2	126	390	ND	ND	ND
	Feb 10	1992.01	20.04	1971.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1992.01	19.98	1972.03	7.0	3.3	0.0	3.2	26.13	NM	NM	400	ND	ND	ND
	Oct 10	1992.01	19.44	1972.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1992.01	19.54	1972.47	6.7	3.5	1.2	1.4	27.56	NM	212	430	ND	ND	ND
	Mar 11	1992.01	20.10	1971.91	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1992.01	20.18	1971.83	7.2	3.6	0.0	1.7	25.58	NM	259	460	ND	ND	ND
	Sep 11	1992.01	19.85	1972.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1992.01	19.65	1972.36	7.0	3.4	NM	1.3	25.97	2.2	266	410	ND	ND	ND
	Mar 12	1992.01	20.41	1971.60	7.2	3.5	5.4	1.3	25.48	2.3	-70	370	NS	NS	NS
*	Jun 12	1992.01	19.18	1972.83	7.3	3.5	15.9	3.0	25.97	2.3	90	410	ND	ND	ND
	Sep 12	1992.01	19.97	1972.04	7.6	3.6	NM	1.2	27.28	2.3	98	390	ND	ND	ND
	Nov 12	1992.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-2	Oct 00	1983.79	15.52	1968.27	NM	NM	NM	NM	NM	NM	NM	3,000	18.0	18.0	ND
	Sep 02	1983.99	16.62	1967.37	NM	NM	NM	NM	NM	NM	NM	3,000	13.0	13.0	ND
	May 03	1983.99	17.15	1966.84	NM	NM	NM	NM	NM	NM	NM	1,400	ND	ND	ND
	Sep 03	1983.97	17.70	1966.27	NM	NM	NM	NM	NM	NM	NM	1,700	ND	ND	ND
	Jan 04	1983.97	18.25	1965.72	7.1	3.1	NM	1.1	23.20	NM	NM	1,700	ND	ND	ND
	May 05	1983.97	14.65	1969.32	6.9	3.5	698.0	4.8	23.40	NM	193	2,050	17.0	9.7	ND
	Dec 05	1983.97	16.00	1967.97	6.6	4.8	360.0	2.7	25.40	3.1	264	2,900	ND	ND	ND
	Mar 06	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1983.97	17.55	1966.42	NM	3.7	728.0	7.0	24.90	2.4	116	1,600	ND	ND	ND
	Oct 06	1983.97	17.25	1966.72	6.1	3.5	20.0	5.1	24.40	2.2	161	1,900	ND	ND	ND
	Dec 06	1983.97	17.60	1966.37	6.8	4.2	28.0	4.9	24.50	2.7	241	1,300	ND	ND	ND
	Mar 07	1983.97	18.84	1965.13	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.97	19.01	1964.96	7.0	3.5	539.0	5.7	24.40	2.3	305	1,400	ND	ND	ND
	Sep 07	1983.97	17.94	1966.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.97	18.04	1965.93	6.3	3.6	144.0	6.9	21.80	2.3	314	1,000	ND	ND	ND
	Mar 08	1983.97	18.82	1965.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	900	ND	ND	ND
	Oct 08	1983.97	18.54	1965.43	6.9	3.5	44.7	3.4	24.80	2.3	103	960	3.4	1.2	ND
	Feb 09	1983.97	18.68	1965.29	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.97	18.95	1965.02	7.0	3.7	15.4	1.9	24.50	2.4	116	880	3.2	1.1	ND
	Sep 09	1983.97	18.95	1965.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.97	19.32	1964.65	5.6	3.3	280.0	1.9	24.40	2.1	155	530	2.4	ND	ND
	Feb 10	1983.97	19.68	1964.29	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.97	19.08	1964.89	7.0	3.1	14.8	3.5	24.19	NM	NM	570	2.1	0.8	ND
	Oct 10	1983.97	18.76	1965.21	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.97	18.78	1965.19	6.9	3.4	32.8	3.0	24.11	NM	92	560	2.4	0.7	ND
	Mar 11	1983.97	19.19	1964.78	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.97	19.50	1964.47	7.2	3.4	25.9	2.6	24.47	NM	273	680	2.2	0.6	ND
	Sep 11	1983.97	19.11	1964.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.97	19.08	1964.89	7.0	3.3	NM	2.7	23.55	2.1	168	610	2.1	0.66	NS
	Mar 12	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.53	19.11	1964.42	7.2	3.3	57.1	2.6	23.57	2.2	87	490	2	0.6	ND
	Sep 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-3	Oct 00	1984.19	15.95	1968.24	NM	NM	NM	NM	NM	NM	NM	98	ND	ND	ND
	Sep 02	1984.46	17.20	1967.26	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1984.46	17.70	1966.76	NM	NM	NM	NM	NM	NM	NM	6.9	ND	ND	ND
	Sep 03	1984.46	18.35	1966.08	NM	NM	NM	NM	NM	NM	NM	12	ND	ND	ND
	Jan 04	1984.46	19.25	1965.18	6.9	2.9	NM	1.0	22.40	NM	NM	6.7	ND	ND	ND
	May 05	1984.46	15.22	1969.21	7.0	2.9	NM	2.5	26.00	NM	149	ND	ND	ND	ND
	Dec 05	1984.46	16.45	1967.98	6.6	4.7	100.0	0.9	27.30	3.0	33	ND	ND	ND	ND
	Mar 06	1984.46	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1984.46	18.38	1966.05	NM	3.8	285.0	5.6	26.40	2.4	-32	ND	ND	ND	ND
	Oct 06	1984.46	17.88	1966.55	5.9	3.9	26.0	2.0	26.70	2.5	279	ND	ND	ND	ND
	Dec 06	1984.46	18.26	1966.17	6.7	4.8	272.0	2.9	26.70	3.1	9	1.2	ND	ND	ND
	Mar 07	1984.46	19.86	1964.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1984.46	20.23	1964.2	7.1	3.7	605.0	3.6	25.90	2.4	43	ND	ND	ND	ND
	Sep 07	1984.46	18.99	1965.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1984.46	18.99	1965.44	6.1	3.9	55.1	2.2	21.90	2.5	135	1.4	ND	ND	ND
	Mar 08	1984.46	19.94	1964.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1984.46	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1984.41	19.46	1964.95	6.7	3.8	44.2	0.4	27.50	2.4	99	6.5	ND	ND	ND
	Feb 09	1984.41	19.80	1964.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1984.41	20.20	1964.21	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1984.41	20.16	1964.25	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1984.41	20.48	1963.93	6.0	3.8	180.0	1.3	26.60	2.4	143	5.1	ND	ND	ND
	Feb 10	1984.41	21.07	1963.34	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1984.41	13.91	1970.50	6.8	3.5	2.2	2.0	27.36	NM	NM	NS	NS	NS	NS
	Oct 10	1984.41	19.95	1964.46	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1984.41	19.91	1964.50	6.7	3.9	12.5	0.6	27.29	NM	106	5.8	ND	ND	ND
	Mar 11	1984.41	20.47	1963.94	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1984.41	20.86	1963.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1984.41	20.45	1963.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1984.41	20.35	1964.06	6.7	4.5	NM	3.3	26.17	NM	-38	16	ND	ND	NS
	Mar 12	1984.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.81	20.43	1963.38	7.0	4.0	102.0	2.6	25.50	2.6	122	25	ND	ND	ND
	Sep 12	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-4	Oct 00	1989.68	16.95	1972.73	NM	NM	NM	NM	NM	NM	NM	14	ND	ND	ND
	Sep 02	1989.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	25	ND	ND	ND
	May 03	1989.87	18.71	1971.16	NM	NM	NM	NM	NM	NM	NM	24	ND	ND	ND
	Sep 03	1989.85	19.05	1970.8	NM	NM	NM	NM	NM	NM	NM	100	ND	ND	ND
	Jan 04	1989.85	19.86	1969.99	7.0	2.7	NM	1.2	22.00	NM	NM	220	ND	ND	ND
	May 05	1989.85	15.83	1974.02	6.8	3.7	664.0	3.7	24.20	NM	160	25	ND	ND	ND
	Dec 05	1989.85	17.62	1972.23	6.7	4.9	670.0	3.2	25.90	3.1	219	15	ND	ND	ND
	Mar 06	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.85	18.36	1971.49	NM	NM	NM	NM	NM	NM	NM	27	ND	ND	ND
	Oct 06	1989.85	18.34	1971.51	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 06	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 07	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 07	1989.85	18.96	1970.89	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 09	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 10	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 12	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
Abandoned June 4, 2012															

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-5	Oct 00	1988.93	16.20	1972.73	NM	NM	NM	NM	NM	NM	NM	100	ND	ND	ND
	Sep 02	1989.18	17.00	1972.18	NM	NM	NM	NM	NM	NM	NM	110	ND	ND	ND
	May 03	1989.18	17.80	1971.38	NM	NM	NM	NM	NM	NM	NM	240	ND	ND	ND
	Sep 03	1989.18	18.07	1971.11	NM	NM	NM	NM	NM	NM	NM	220	ND	ND	ND
	Jan 04	1989.18	18.65	1970.53	6.7	2.6	NM	1.2	22.30	NM	NM	370	ND	ND	ND
	May 05	1989.18	14.87	1974.31	7.1	2.6	NM	4.6	25.40	NM	184	146	ND	ND	ND
	Dec 05	1989.18	16.80	1972.38	6.8	5.3	>999	1.5	26.80	3.3	377	93	ND	ND	ND
	Mar 06	1989.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.18	17.40	1971.78	NM	3.8	>999	6.9	26.60	2.4	126	220	ND	ND	ND
	Oct 06	1989.18	17.46	1971.72	6.2	3.5	21.0	4.8	26.70	2.2	99	67	ND	ND	ND
	Dec 06	1989.18	18.01	1971.17	6.8	4.5	134.0	5.4	26.50	2.9	93	130	ND	ND	ND
	Mar 07	1989.18	19.30	1969.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.18	19.12	1970.06	7.0	3.4	375.0	6.5	25.20	2.2	460	550	ND	ND	ND
	Sep 07	1989.18	17.85	1971.33	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.18	18.33	1970.85	6.3	3.8	28.3	5.7	24.40	2.4	159	170	ND	ND	ND
	Mar 08	1989.18	19.31	1969.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	400	ND	ND	ND
	Oct 08	1989.15	18.99	1970.16	6.8	3.5	21.4	4.8	27.40	2.3	119	340	2.7	1.2	ND
	Feb 09	1989.15	18.99	1970.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.15	19.17	1969.98	7.0	3.6	0.0	5.6	26.20	2.3	125	700	4.6	1.3	ND
	Sep 09	1989.15	19.14	1970.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.15	19.55	1969.6	5.8	3.2	-6.0	3.8	27.10	2.1	132	520	3.9	1.4	ND
	Feb 10	1989.15	19.57	1969.58	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.15	19.21	1969.94	7.1	3.1	7.0	6.7	25.60	NM	273	550	2.9	1.3	ND
	Oct 10	1989.15	18.67	1970.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.15	18.85	1970.30	7.0	5.4	2.0	4.7	25.64	NM	104	360	2.4	1.0	ND
	Mar 11	1989.15	19.41	1969.74	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.15	19.50	1969.65	6.9	3.5	14.0	4.9	26.58	NM	412	670	2.7	1.1	ND
	Sep 11	1989.15	19.19	1969.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.15	19.22	1969.93	6.9	4.0	NM	3.8	25.54	NM	-30	540	2.5	1.1	ND
	Mar 12	1989.15	19.74	1969.41	7.2	3.3	123.0	5.6	23.51	2.4	-38	800	NS	NS	NS
*	Jun 12	1988.69	19.25	1969.44	7.3	3.3	50.1	6.0	25.30	2.1	106	520	2.5	1.2	ND
	Sep 12	1988.69	18.25	1970.44	7.3	3.3	NM	5.3	26.25	2.2	129	340	2.2	0.95	ND
	Nov 12	1988.69	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-6	Oct 00	1988.72	17.41	1971.31	NM	NM	NM	NM	NM	NM	NM	2,200	13.0	8.1	ND
	Sep 02	1989.01	18.26	1970.75	NM	NM	NM	NM	NM	NM	NM	1,000	41.0	14.0	ND
	May 03	1989.01	18.87	1970.14	NM	NM	NM	NM	NM	NM	NM	710	22.0	ND	ND
	Sep 03	1989.01	19.25	1969.76	NM	NM	NM	NM	NM	NM	NM	1,300	ND	ND	ND
	Jan 04	1989.01	19.74	1969.27	7.0	2.3	NM	1.2	22.40	NM	NM	2,400	ND	ND	ND
	May 05	1989.01	16.21	1972.8	6.9	2.4	NM	2.8	25.90	NM	123	2,090	13.0	11.0	ND
	Sep 05	1989.01	17.26	1971.75	7.0	4.0	34.0	6.2	26.90	2.3	-119	890	13.0	23.0	ND
	Dec 05	1989.01	17.88	1971.13	6.8	4.9	220.0	1.1	26.50	3.2	163	530	41.0	21.0	ND
	Mar 06	1989.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.01	18.80	1970.21	NM	4.0	707.0	6.3	26.70	2.4	172	1,100	ND	ND	ND
	Oct 06	1989.01	18.73	1970.28	6.3	3.6	7.0	4.1	26.50	2.3	61	1,300	ND	ND	ND
	Dec 06	1989.01	19.18	1969.83	6.7	4.2	96.0	4.4	26.20	2.7	239	810	9.9	8.9	ND
	Mar 07	1989.01	20.40	1968.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.01	20.28	1968.73	7.1	3.5	352.0	5.6	24.90	2.2	241	1,300	ND	ND	ND
	Sep 07	1989.01	19.00	1970.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.01	19.29	1969.72	6.2	3.8	4.3	5.4	24.80	2.4	277	1,500	ND	ND	ND
	Mar 08	1989.01	20.26	1968.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,900	ND	ND	ND
	Oct 08	1989.03	20.00	1969.03	6.8	3.5	46.3	3.3	26.30	2.3	117	2,000	13.0	3.9	ND
	Feb 09	1989.03	20.03	1969	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.03	20.20	1968.83	7.0	3.5	76.3	2.8	26.70	2.2	121	2,800	14.0	4.1	ND
	Sep 09	1989.03	20.27	1968.76	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.03	20.66	1968.37	5.9	3.1	87.0	2.5	26.30	1.9	132	2,100	14.0	6.4	ND
	Feb 10	1989.03	20.77	1968.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.03	20.38	1968.65	7.0	3.0	23.2	4.1	26.32	NM	NM	2,500	13.0	6.2	NS
	Oct 10	1989.03	19.94	1969.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.03	20.02	1969.01	6.9	3.3	7.0	3.5	25.26	NM	86	2,300	13.0	8.2	ND
	Mar 11	1989.03	20.49	1968.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.03	20.66	1968.37	7.0	3.3	8.2	3.7	26.52	NM	365	2,400	10.0	3.7	ND
	Sep 11	1989.03	20.30	1968.73	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.03	20.30	1968.73	7.0	3.2	NM	3.4	25.16	2.1	113	2,900	12	5.6	ND
	Mar 12	1989.03	20.84	1968.19	7.3	3.2	107.0	4.4	24.30	2.1	-44	3,500	NS	NS	NS
*	Jun 12	1988.12	19.71	1968.41	7.6	3.1	57.1	7.5	27.25	2.0	114	1,700	8.5	5.4	ND
	Sep 12	1988.12	19.23	1968.89	7.3	3.1	NM	3.7	26.27	2.0	122	3,000	17	8.1	ND
	Nov 12	1988.12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-7	Sep 02	1990.28	18.27	1972.01	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1990.28	16.60	1973.68	NM	NM	NM	NM	NM	NM	NM	1.7	ND	ND	ND
	Sep 03	1990.25	16.79	1973.46	NM	NM	NM	NM	NM	NM	NM	2.0	ND	ND	ND
	Jan 04	1990.25	17.32	1972.93	7.0	2.2	NM	0.9	22.40	NM	NM	11	ND	ND	ND
	May 05	1990.25	13.86	1976.39	7.1	1.8	NM	4.0	24.80	NM	129	ND	ND	ND	ND
	Sep 05	1990.25	14.97	1975.28	7.0	4.6	140.0	6.2	26.60	3.0	144	3.3	ND	ND	ND
	Dec 05	1990.25	15.45	1974.80	6.7	5.3	5.0	1.8	23.80	3.4	472	1.2	ND	ND	ND
	Mar 06	1990.25	16.41	1973.84	4.7	6.7	428.0	NM	22.40	4.2	634	1.5	ND	ND	ND
	Jun 06	1990.25	16.50	1973.75	NM	4.1	>999	6.6	26.20	2.6	-14	2.2	ND	ND	ND
	Oct 06	1990.25	16.50	1973.75	6.2	3.7	>999	4.4	25.00	2.3	92	2.9	ND	ND	ND
	Dec 06	1990.25	16.87	1973.38	6.9	4.8	>999	5.7	25.10	3.0	65	2.1	ND	ND	ND
	Mar 07	1990.25	18.19	1972.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1990.25	18.08	1972.17	7.1	3.6	450.0	6.3	25.10	2.2	129	1.1	ND	ND	ND
	Sep 07	1990.25	16.31	1973.94	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1990.25	16.60	1973.65	6.2	4.0	0.0	2.3	22.50	2.6	161	1.3	ND	ND	ND
	Mar 08	1990.25	17.93	1972.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1990.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1990.22	17.57	1972.65	6.6	3.8	204.0	3.5	26.70	2.4	134	2.5	ND	ND	ND
	Feb 09	1990.22	17.52	1972.70	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1990.22	17.92	1972.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1990.22	18.13	1972.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1990.22	18.50	1971.72	5.8	3.4	46.0	3.2	26.70	2.2	160	7.9	ND	ND	ND
	Feb 10	1990.22	18.36	1971.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1990.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1990.22	17.54	1972.68	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1990.22	17.65	1972.57	6.9	3.7	230.8	4.9	26.17	NM	98	2.0	ND	ND	ND
	Mar 11	1990.22	18.19	1972.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1990.22	18.40	1971.82	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1990.22	18.02	1972.20	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1990.22	17.86	1972.36	7.0	3.5	NM	3.7	25.20	2.2	302	8.9	ND	ND	ND
	Mar 12	1990.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1989.78	17.78	1972.00	7.3	3.5	8.0	4.8	27.56	2.3	-42	10	ND	ND	ND
	Sep 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-8	Sep 02	1994.25	18.55	1975.70	NM	NM	NM	NM	NM	NM	NM	5.4	ND	ND	ND
	May 03	1994.25	19.50	1974.75	NM	NM	NM	NM	NM	NM	NM	3.2	ND	ND	ND
	Sep 03	1994.23	19.55	1974.68	NM	NM	NM	NM	NM	NM	NM	3.7	ND	ND	ND
	Jan 04	1994.23	19.91	1974.32	7.0	2.2	NM	1.0	22.00	NM	NM	4.7	ND	ND	ND
	May 05	1994.23	15.51	1978.72	7.0	1.8	NM	3.6	27.70	NM	107	5.6	5.6	ND	ND
	Dec 05	1994.23	18.48	1975.75	6.7	4.2	>999	2.1	24.10	2.7	483	3.6	ND	ND	ND
	Mar 06	1994.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1994.23	18.89	1975.34	NM	3.7	>999	6.9	27.40	2.3	185	2.6	ND	ND	ND
	Oct 06	1994.23	19.12	1975.11	6.2	3.4	>999	5.9	26.70	2.2	108	3.4	ND	ND	ND
	Dec 06	1994.23	19.60	1974.63	6.2	3.4	>999	5.9	26.70	2.2	108	4.3	ND	ND	ND
	Mar 07	1994.23	20.56	1973.67	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1994.23	20.31	1973.92	7.1	3.5	259.0	7.3	27.30	2.3	287	2.8	ND	ND	ND
	Sep 07	1994.23	19.14	1975.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1994.23	19.81	1974.42	6.5	3.7	0.0	3.5	25.50	2.4	158	2.8	ND	ND	ND
	Mar 08	1994.23	20.61	1973.62	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1994.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1994.22	20.79	1973.43	6.8	3.5	421.0	5.2	26.90	2.2	154	3.7	ND	ND	ND
	Feb 09	1994.22	20.29	1973.93	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1994.22	20.44	1973.78	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1994.22	20.41	1973.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1994.22	20.71	1973.51	6.7	3.2	450.0	5.0	26.80	2.0	133	2.8	ND	ND	ND
	Feb 10	1994.22	20.86	1973.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1994.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1994.22	19.68	1974.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1994.22	19.94	1974.28	7.0	3.5	39.5	5.3	26.65	NM	98	4	ND	ND	ND
	Mar 11	1994.22	20.41	1973.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1994.22	20.50	1973.72	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1994.22	20.27	1973.95	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 12	1994.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1991.71	19.32	1972.39	7.4	3.2	93.1	6.6	27.55	2.1	17	3.5	ND	ND	ND
	Sep 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-9	Sep 02	1992.26	18.46	1973.80	NM	NM	NM	NM	NM	NM	NM	670	ND	ND	ND
	May 03	1992.26	19.15	1973.11	NM	NM	NM	NM	NM	NM	NM	59	ND	ND	ND
	Sep 03	1992.26	19.02	1973.24	NM	NM	NM	NM	NM	NM	NM	9.2	ND	ND	ND
	Jan 04	1992.26	19.05	1973.21	7.0	2.5	NM	1.2	22.60	NM	NM	10	ND	ND	ND
	May 05	1992.26	15.36	1976.90	7.1	2.7	296.0	7.6	26.10	NM	130	353	ND	ND	ND
	Sep 05	1992.26	17.85	1974.41	7.2	1.8	4.0	6.6	27.10	1.2	111	64	ND	ND	ND
	Dec 05	1992.26	17.68	1974.58	6.9	2.5	33.0	2.5	26.60	1.6	123	190	ND	ND	ND
	Mar 06	1992.26	18.55	1973.71	5.1	2.1	>999	NM	25.90	1.3	496	ND	ND	ND	ND
	Jun 06	1992.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1992.26	18.40	1973.86	6.3	2.4	0.0	4.1	25.70	1.5	86	160	ND	ND	ND
	Dec 06	1992.26	19.00	1973.26	6.8	3.0	0.0	5.1	25.50	1.9	233	45	ND	ND	ND
	Mar 07	1992.26	20.19	1972.07	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1992.26	19.95	1972.31	7.1	2.5	0.0	5.6	26.10	1.6	428	170	ND	ND	ND
	Sep 07	1992.26	18.51	1973.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1992.26	19.20	1973.06	NM	NM	NM	NM	NM	NM	NM	110	ND	ND	ND
	Mar 08	1992.26	20.16	1972.10	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1992.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1992.25	19.87	1972.38	7.0	1.4	162.0	4.7	26.60	0.9	58	12	ND	ND	ND
	Feb 09	1992.25	19.76	1972.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1992.25	20.00	1972.25	7.5	1.4	>-5.0	4.0	26.50	0.8	-9	13	ND	ND	ND
	Sep 09	1992.25	20.20	1972.05	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1992.25	20.45	1971.80	7.0	1.1	-10.0	4.0	26.40	0.7	-157	5.5	ND	ND	ND
	Feb 10	1992.25	20.21	1972.04	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1992.25	20.10	1972.15	7.3	1.2	12.0	5.1	27.67	NM	NM	6.6	ND	ND	ND
	Oct 10	1992.25	19.44	1972.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1992.25	19.63	1972.62	7.1	1.2	7.0	3.5	27.31	NM	50	3.7	ND	ND	ND
	Mar 11	1992.25	20.13	1972.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1992.25	20.40	1971.85	7.1	1.2	0.4	0.5	31.96	NM	286	2.3	ND	ND	ND
	Sep 11	1992.25	19.99	1972.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1992.25	19.91	1972.34	7.3	1.2	NM	2.2	24.70	0.8	265	5.6	ND	ND	ND
	Mar 12	1992.25	20.50	1971.75	7.5	1.2	17.8	1.7	26.86	0.8	-79	5.2	NS	NS	NS
*	Jun 12	1992.25	19.45	1972.80	7.6	1.0	13.4	4.7	30.27	0.8	-8	5.7	ND	ND	ND
	Sep 12	1992.25	19.07	1973.18	7.7	1.2	NM	2.2	27.57	0.8	118	3.7	ND	ND	ND
	Nov 12	1992.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-10	Sep 02	1983.81	18.51	1965.30	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1983.81	18.65	1965.16	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Sep 03	1983.81	19.45	1964.36	NM	NM	NM	NM	NM	NM	NM	15	ND	ND	ND
	Jan 04	1983.81	20.32	1963.49	7.0	3.1	NM	1.0	24.40	NM	NM	ND	ND	ND	ND
	May 05	1983.81	16.76	1967.05	6.8	3.2	25.0	1.5	28.10	NM	-253	ND	ND	ND	ND
	Sep 05	1983.81	16.95	1966.86	7.0	2.9	28.0	3.9	27.90	1.9	-239	ND	ND	ND	ND
	Dec 05	1983.81	17.64	1966.17	6.7	3.7	57.0	1.5	23.90	2.3	-140	ND	ND	ND	ND
	Mar 06	1983.81	19.25	1964.56	5.7	1.8	153.0	NM	21.30	1.2	-154	ND	ND	ND	ND
	Jun 06	1983.81	17.90	1965.91	NM	2.1	>999	3.5	28.10	1.5	-303	ND	ND	ND	ND
	Oct 06	1983.81	19.00	1964.81	6.2	1.4	86.0	1.6	27.10	0.9	-272	ND	ND	ND	ND
	Dec 06	1983.81	19.21	1964.60	6.8	3.9	144.0	3.9	26.60	2.5	-321	1	ND	ND	ND
	Mar 07	1983.81	20.84	1962.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.81	21.39	1962.42	7.0	3.5	>999	2.7	27.30	2.1	-179	ND	ND	ND	ND
	Sep 07	1983.81	20.38	1963.43	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.81	20.26	1963.55	6.9	3.6	0.0	0.6	24.50	2.3	-170	1	ND	ND	ND
	Mar 08	1983.81	21.06	1962.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1983.78	20.45	1963.33	6.8	2.9	100.0	0.0	27.70	1.9	-226	ND	ND	ND	ND
	Feb 09	1983.78	20.90	1962.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.78	21.42	1962.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1983.78	21.46	1962.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.78	21.67	1962.11	6.3	2.6	-10.0	0.2	27.40	1.6	-330	ND	ND	ND	ND
	Feb 10	1983.78	22.47	1961.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1983.78	21.23	1962.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.78	21.10	1962.68	7.1	1.0	1.0	0.1	28.00	NM	-274	ND	ND	ND	ND
	Mar 11	1983.78	21.76	1962.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.78	22.18	1961.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1983.78	21.75	1962.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.78	21.62	1962.16	6.9	1.3	NM	0.2	26.91	NM	-335	ND	ND	ND	ND
	Mar 12	1983.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.28	21.76	1961.52	7.4	3.0	11.0	1.0	27.50	2.0	-283	0.9	ND	ND	ND
	Sep 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-11	Sep 02	1980.24	24.22	1956.02	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1980.24	24.25	1955.99	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Sep 03	1980.24	25.62	1954.62	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jan 04	1980.24	26.22	1954.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	May 05	1980.24	22.55	1957.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 07	1980.24	25.51	1954.73	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 07	1980.24	26.13	1954.11	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 10	1980.21	27.54	1952.67	6.7	3.3	3.0	5.0	24.30	2.1	-134	ND	ND	ND	ND
	Jun 10	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1980.21	26.69	1953.52	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 11	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1980.21	27.36	1952.85	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1980.21	27.45	1952.76	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1980.21	27.28	1952.93	6.9	3.3	NM	0.2	24.72	21.3	-94	1.4	ND	ND	ND
	Mar 12	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.87	27.37	1952.50	7.3	3.4	3.9	0.9	26.07	2.2	-194	1.4	ND	ND	ND
	Sep 12	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-12	Sep 02	1996.59	14.90	1981.69	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1996.59	15.07	1981.52	NM	NM	NM	NM	NM	NM	NM	1.3	ND	ND	ND
	Sep 03	1996.59	15.30	1981.29	NM	NM	NM	NM	NM	NM	NM	14	ND	ND	ND
	Jan 04	1996.59	15.40	1981.19	7.0	2.2	NM	NM	22.40	NM	NM	6.1	ND	ND	ND
	May 05	1996.59	12.34	1984.25	6.8	2.6	NM	3.2	24.90	NM	219	ND	ND	ND	ND
	Sep 05	1996.59	13.45	1983.14	7.0	4.2	160.0	5.0	25.60	2.7	95	1.1	ND	ND	ND
	Dec 05	1996.59	14.20	1982.39	6.7	5.0	210.0	2.0	22.50	3.2	523	1.2	ND	ND	ND
	Mar 06	1996.59	15.00	1981.59	NM	6.7	91.0	NM	23.50	4.2	503	1.1	ND	ND	ND
	Jun 06	1996.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1996.59	14.71	1981.88	6.3	3.9	>999	3.9	26.10	2.5	112	ND	ND	ND	ND
	Dec 06	1996.59	15.05	1981.54	6.6	4.4	>999	6.2	25.30	2.8	206	1.4	ND	ND	ND
	Mar 07	1996.59	16.55	1980.04	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1996.59	16.31	1980.28	7.1	3.8	>999	3.5	25.50	2.4	-39	ND	ND	ND	ND
	Sep 07	1996.59	14.27	1982.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1996.59	15.04	1981.55	6.3	3.9	286.0	2.6	24.70	2.5	207	ND	ND	ND	ND
	Mar 08	1996.59	16.51	1980.08	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1996.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1996.48	15.73	1980.75	6.7	3.8	366.0	0.8	26.90	2.4	119	2	ND	ND	ND
	Feb 09	1996.48	15.61	1980.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1996.48	16.26	1980.22	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1996.48	16.29	1980.19	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1996.48	16.76	1979.72	6.0	3.5	370.0	1.5	27.60	2.2	54	1.2	ND	ND	ND
	Feb 10	1996.48	16.92	1979.56	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1996.48	15.58	1980.90	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1996.48	15.85	1980.63	6.8	3.6	20.4	1.6	26.18	NM	109	0.76	ND	ND	ND
	Mar 11	1996.48	16.49	1979.99	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1996.48	16.66	1979.82	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1996.48	15.93	1980.55	7.0	3.5	NM	2.0	24.82	2.3	315	0.95	ND	ND	ND
	Mar 12	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1995.95	15.37	1980.58	7.3	3.5	15.3	2.8	28.24	2.3	-18	1.2	ND	ND	ND
	Sep 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-13	May 03	1984.23	17.25	1966.98	NM	NM	NM	NM	NM	NM	NM	2,100	ND	ND	ND
	Sep 03	1984.23	17.60	1966.63	NM	NM	NM	NM	NM	NM	NM	2,800	ND	ND	ND
	Jan 04	1984.23	18.00	1966.23	6.6	3.3	NM	1.1	22.20	NM	NM	2,700	ND	ND	ND
	May 05	1984.23	14.76	1969.47	7.0	2.1	>999	4.2	24.50	NM	118	5,310	ND	ND	ND
	Sep 05	1984.23	15.60	1968.63	7.1	4.0	270.0	6.9	25.40	2.5	144	2,600	ND	ND	ND
	Dec 05	1984.23	16.05	1968.18	6.7	5.0	330.0	2.2	24.90	3.2	250	3,400	ND	ND	ND
	Mar 06	1984.23	17.24	1966.99	5.5	3.6	44.0	NM	22.80	2.3	68	3,700	ND	ND	ND
	Jun 06	1984.23	17.40	1966.83	NM	3.7	425.0	7.1	24.20	2.4	120	2,900	NS	NS	NS
	Oct 06	1984.23	17.15	1967.08	6.2	3.6	50.0	3.8	24.60	2.3	169	2,800	ND	ND	ND
	Dec 06	1984.23	17.47	1966.76	6.8	4.3	94.0	4.2	24.50	2.7	330	3,200	ND	ND	ND
	Mar 07	1984.23	18.58	1965.65	6.9	3.5	308.0	9.5	24.00	2.3	514	2,500	ND	ND	ND
	Jun 07	1984.23	18.66	1965.57	7.0	3.5	0.0	6.1	23.60	2.2	411	3,700	ND	ND	ND
	Sep 07	1984.23	17.41	1966.82	6.7	3.3	3.0	4.7	27.70	2.1	228	2,000	ND	ND	ND
	Dec 07	1984.23	17.50	1966.73	6.4	3.7	19.7	6.5	21.30	2.4	282	2,500	ND	ND	ND
	Mar 08	1984.23	18.31	1965.92	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1984.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Oct 08	1984.18	18.25	1965.93	6.8	3.5	50.3	3.1	24.80	2.2	87	2,600	5.3	ND	ND
	Feb 09	1984.18	18.28	1965.90	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1984.18	18.41	1965.77	7.0	3.8	15.7	3.0	24.40	2.4	120	2,200	2.9	ND	ND
	Sep 09	1984.18	18.63	1965.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1984.18	19.05	1965.13	6.0	3.4	0.0	2.0	25.20	2.1	135	1,700	3.7	ND	ND
	Feb 10	1984.18	19.22	1964.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1984.18	18.72	1965.46	7.0	3.2	5.2	2.9	25.27	NM	NM	1,600	3.2	ND	ND
	Oct 10	1984.18	18.44	1965.74	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1984.18	18.45	1965.73	6.9	3.5	2.0	2.3	23.79	NM	90	1,900	3.9	ND	ND
	Mar 11	1984.18	18.75	1965.43	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1984.18	19.15	1965.03	7.1	3.5	4.0	2.7	24.74	NM	284	1,600	3.2	ND	ND
	Sep 11	1984.18	18.64	1965.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1984.18	18.67	1965.51	6.9	3.7	NM	1.6	23.97	2.4	113	1,700	2.4	ND	ND
	Mar 12	1984.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.31	18.45	1964.86	7.2	3.5	19.6	1.9	23.36	2.3	86	1,500	3.7	ND	ND
	Sep 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-14	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,900	ND	ND	ND
	Jan 04	1987.89	18.35	1969.54	7.0	2.3	NM	1.3	22.30	NM	NM	2,100	ND	ND	ND
	May 05	1987.89	15.02	1972.87	7.0	3.2	NM	NM	24.70	NM	140	2,920	5.5	ND	ND
	Dec 05	1987.89	16.50	1971.39	6.8	5.3	>999	2.1	26.10	3.3	206	3,400	ND	ND	ND
	Mar 06	1987.89	17.54	1970.35	5.2	6.8	898.0	NM	24.20	4.3	234	2,500	ND	ND	ND
	Jun 06	1987.89	17.61	1970.28	NM	3.9	>999	6.8	25.40	2.5	119	1,800	NS	NS	NS
	Oct 06	1987.89	17.42	1970.47	6.1	3.6	>999	7.0	24.80	2.3	297	1,900	ND	ND	ND
	Dec 06	1987.89	17.78	1970.11	6.8	4.5	350.0	4.2	25.70	2.9	226	3,500	ND	ND	ND
	Mar 07	1987.89	18.93	1968.96	6.8	3.7	455.0	8.1	25.10	2.4	501	1,900	ND	ND	ND
	Jun 07	1987.89	18.80	1969.09	7.0	3.7	259.0	6.4	24.80	2.4	299	1,700	ND	ND	ND
	Sep 07	1987.89	17.40	1970.49	6.8	3.5	103.0	4.2	32.20	2.2	220	650	ND	ND	ND
	Dec 07	1987.89	17.66	1970.23	6.4	4.0	9.7	5.7	23.30	2.6	147	1,500	ND	ND	ND
	Mar 08	1987.89	18.63	1969.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1987.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,500	ND	ND	ND
	Oct 08	1987.86	18.60	1969.26	6.8	3.7	249.0	3.1	25.70	2.4	116	1,500	2.9	ND	ND
	Feb 09	1987.86	18.47	1969.39	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1987.86	18.63	1969.23	7.0	4.0	>-5.0	2.9	25.60	2.5	118	1,900	4.4	ND	ND
	Sep 09	1987.86	18.88	1968.98	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1987.86	19.20	1968.66	5.6	3.6	300.0	1.8	26.20	2.3	132	1,200	2.1	ND	ND
	Feb 10	1987.86	19.26	1968.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1987.86	18.88	1968.98	7.0	3.3	84.2	3.6	25.49	NM	NM	1,500	2.4	ND	ND
	Oct 10	1987.86	18.50	1969.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1987.86	18.56	1969.30	6.9	3.6	25.8	2.9	25.07	NM	101	1,500	2.6	ND	ND
	Mar 11	1987.86	18.97	1968.89	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1987.86	19.15	1968.71	7.3	3.6	11.4	3.2	25.78	NM	259	1,700	2.0	ND	ND
	Sep 11	1987.86	18.74	1969.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1987.86	18.72	1969.14	7.0	3.5	NM	2.6	25.40	2.3	111	1,700	2.5	ND	ND
	Mar 12	1987.86	19.33	1968.53	7.2	3.6	87.5	4.3	23.33	2.3	-51	1,600	NS	NS	NS
*	Jun 12	1987.33	18.71	1968.62	7.3	3.5	122.0	3.9	25.77	2.3	104	1,400	2.5	ND	ND
	Sep 12	1987.33	18.28	1969.05	7.3	3.5	NM	3.2	25.71	2.3	144	1,300	2.8	ND	ND
	Nov 12	1987.33	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-15	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	5.2	ND	ND	ND
	Jan 04	1983.28	15.60	1967.68	6.4	2.2	NM	1.0	22.40	NM	NM	2.7	ND	ND	ND
	May 05	1983.28	12.59	1970.69	7.0	2.3	NM	2.9	25.10	NM	164	ND	ND	ND	ND
	Sep 05	1983.28	13.45	1969.83	7.0	3.6	36.0	3.5	25.80	2.3	-24	3.6	ND	ND	ND
	Dec 05	1983.28	13.77	1969.51	6.6	4.5	140.0	1.0	25.90	2.8	-38	5	ND	ND	ND
	Mar 06	1983.28	15.00	1968.28	4.7	6.4	20.0	NM	23.90	4.0	613	4.5	ND	ND	ND
	Jun 06	1983.28	15.15	1968.13	NM	3.8	300.0	4.3	26.00	2.5	106	4.4	NS	NS	NS
	Oct 06	1983.28	14.91	1968.37	6.2	3.7	10.0	2.0	25.70	2.3	51	3.3	ND	ND	ND
	Dec 06	1983.28	15.17	1968.11	6.8	4.7	15.0	3.4	25.90	3.0	28	3.7	ND	ND	ND
	Mar 07	1983.28	16.31	1966.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.28	16.16	1967.12	7.0	3.6	37.0	3.1	25.30	2.3	362	3	ND	ND	ND
	Sep 07	1983.28	14.80	1968.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.28	14.71	1968.57	6.4	3.7	0.0	1.9	23.30	2.3	170	3	ND	ND	ND
	Mar 08	1983.28	16.62	1966.66	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1983.25	15.80	1967.45	6.8	3.6	132.0	2.1	27.00	2.3	112	7.8	ND	ND	ND
	Feb 09	1983.25	15.76	1967.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.25	15.89	1967.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1983.25	16.34	1966.91	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.25	16.68	1966.57	5.8	3.2	44.0	1.8	26.60	2.1	34	3	ND	ND	ND
	Feb 10	1983.25	16.81	1966.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1983.25	16.10	1967.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.25	16.08	1967.17	6.8	3.4	7.6	2.3	27.60	NM	154	2.5	ND	ND	ND
	Mar 11	1983.25	16.29	1966.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.25	16.64	1966.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1983.25	16.18	1967.07	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.25	16.17	1967.08	6.8	4.0	NM	2.1	26.75	NM	-42	3.5	ND	ND	ND
	Mar 12	1983.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1982.74	16.70	1966.04	7.3	3.1	25.4	4.1	27.82	2.1	-64	4.2	ND	ND	ND
	Sep 12	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-16	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Jan 04	1980.63	26.22	1954.41	7.0	2.3	NM	0.7	22.40	NM	NM	ND	ND	ND	ND
	May 05	1980.63	23.41	1957.22	7.1	2.9	NM	1.1	25.20	NM	-4	ND	ND	ND	ND
	Sep 05	1980.63	24.12	1956.51	7.0	3.4	520.0	3.5	24.60	2.3	-31	ND	ND	ND	ND
	Dec 05	1980.63	24.21	1956.42	6.7	3.8	>999	1.3	25.30	2.4	48	ND	ND	ND	ND
	Mar 06	1980.63	25.06	1955.57	5.2	5.7	199.0	NM	23.80	3.6	162	ND	ND	ND	ND
	Jun 06	1980.63	26.05	1954.58	NM	3.4	>999	5.6	27.10	2.2	-64	ND	ND	ND	ND
	Oct 06	1980.63	25.67	1954.96	6.3	3.4	32.0	2.0	24.60	2.2	-145	ND	ND	ND	ND
	Dec 06	1980.63	25.56	1955.07	6.5	3.6	271.0	2.9	24.40	1.3	-52	ND	ND	ND	ND
	Mar 07	1980.63	26.33	1954.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1980.63	27.28	1953.35	6.7	3.3	282.0	2.2	25.00	2.1	94	ND	ND	ND	ND
	Sep 07	1980.63	27.03	1953.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1980.63	26.46	1954.17	6.5	3.4	0.0	1.9	24.90	2.2	82	ND	ND	ND	ND
	Mar 08	1980.63	26.33	1954.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1980.63	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1980.61	27.19	1953.42	6.9	3.2	68.0	0.0	24.90	2.1	38	ND	2.8	ND	ND
	Feb 09	1980.61	26.52	1954.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.61	27.30	1953.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1980.61	27.86	1952.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1980.61	27.99	1952.62	5.7	3.0	100.0	0.4	26.00	1.9	-96	1.9	ND	ND	ND
	Feb 09	1980.61	28.43	1952.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1980.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1980.61	27.95	1952.66	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1980.61	27.68	1952.93	6.6	3.1	2.5	0.2	26.52	NM	140	ND	ND	ND	ND
	Mar 11	1980.61	27.49	1953.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1980.61	28.22	1952.39	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1980.61	28.36	1952.25	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1980.61	28.17	1952.44	6.9	3.5	NM	0.2	24.40	NM	-74	ND	ND	ND	ND
	Mar 12	1980.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1980.53	28.51	1952.02	7.2	2.9	NM	1.2	25.13	1.9	-23	ND	ND	ND	ND
	Sep 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-17	May 05	1990.92	15.07	1975.85	6.9	3.5	22.0	5.9	24.10	NM	181	520	ND	ND	ND
	Dec 05	1990.92	17.05	1973.87	6.9	4.7	6.0	2.3	26.80	3.0	240	470	ND	ND	ND
	Mar 06	1990.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1990.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1990.92	17.91	1973.01	6.2	3.5	2.0	7.4	24.90	2.2	174	1,300	ND	ND	ND
	Dec 06	1990.92	18.41	1972.51	6.9	4.1	25.0	6.8	24.10	2.7	386	710	ND	ND	ND
	Mar 07	1990.92	19.63	1971.29	7.0	3.6	87.0	8.1	24.30	2.3	350	440	ND	ND	ND
	Jun 07	1990.92	19.48	1971.44	7.0	3.7	37.0	7.3	25.00	2.3	471	300	ND	ND	ND
	Sep 07	1990.92	17.91	1973.01	6.7	3.4	0.0	5.0	26.70	2.2	197	380	ND	ND	ND
	Dec 07	1990.92	18.45	1972.47	6.3	3.9	0.0	4.8	19.70	2.5	176	480	ND	ND	ND
	Mar 08	1990.92	19.51	1971.41	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1990.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	360	ND	ND	ND
	Oct 08	1990.89	18.84	1972.05	6.8	3.7	-3.1	4.1	25.00	2.4	136	290	ND	ND	ND
	Feb 09	1990.89	19.12	1971.77	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1990.89	19.44	1971.45	5.6	3.8	0.0	1.3	25.00	2.4	170	270	ND	ND	ND
	Sep 09	1990.89	19.58	1971.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1990.89	19.95	1970.94	6.6	3.5	-10.0	3.0	25.20	2.2	131	310	ND	ND	ND
	Feb 10	1990.89	19.71	1971.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1990.89	19.62	1971.27	7.0	2.9	-0.7	3.1	25.10	NM	NM	270	ND	ND	ND
	Oct 10	1990.89	19.10	1971.79	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1990.89	19.14	1971.75	6.6	3.7	1.3	1.8	26.48	NM	207	240	ND	ND	ND
	Mar 11	1990.89	19.65	1971.24	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1990.89	19.85	1971.04	6.7	3.7	0.5	1.7	25.89	NM	399	350	ND	ND	ND
	Sep 11	1990.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1990.89	19.45	1971.44	7.0	3.5	NM	2.7	24.09	2.6	274	350	ND	ND	ND
	Mar 12	1990.89	20.03	1970.86	7.2	3.6	4.1	1.3	24.72	2.3	-92	320	NS	NS	NS
*	Jun 12	1991.04	19.09	1971.95	7.2	3.5	4.5	1.6	24.31	2.3	101	260	ND	ND	ND
	Sep 12	1991.04	18.83	1972.21	7.5	3.5	NM	2.0	25.50	2.8	72	250	ND	ND	ND
	Nov 12	1991.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-18	May 05	1962.87	8.71	1954.16	7.1	3.9	>999	5.6	24.30	NM	139	1,600	ND	ND	ND
	Sep 05	1962.87	9.69	1953.18	7.1	4.1	3.0	6.2	26.30	2.6	88	1,700	ND	ND	ND
	Dec 05	1962.87	9.70	1953.17	6.8	4.7	NM	2.0	25.20	3.0	420	2,400	ND	ND	ND
	Mar 06	1962.87	10.21	1952.66	5.2	6.2	3.0	NM	23.30	3.9	237	1,700	NS	NS	NS
	Jun 06	1962.87	11.64	1951.23	NM	3.6	304.0	6.2	25.40	2.3	166	1,600	NS	NS	NS
	Oct 06	1962.87	11.21	1951.66	6.3	3.5	0.0	4.1	25.50	2.2	127	2,100	ND	ND	ND
	Dec 06	1962.87	10.98	1951.89	6.8	4.2	0.0	4.3	24.70	2.7	297	1,400	ND	ND	ND
	Mar 07	1962.87	11.36	1951.51	7.0	3.4	23.0	7.5	22.80	2.2	286	1,400	ND	ND	ND
	Jun 07	1962.87	12.53	1950.34	7.0	3.5	24.0	5.5	23.90	2.2	394	1,300	ND	ND	ND
	Sep 07	1962.87	12.45	1950.42	6.8	3.3	22.0	5.4	29.30	2.1	210	930	ND	ND	ND
	Dec 07	1962.87	11.54	1951.33	6.3	3.6	0.0	5.8	21.60	2.3	232	1,400	ND	ND	ND
	Mar 08	1962.87	11.15	1951.72	6.9	3.5	0.2	4.3	21.20	2.2	212	1,800	ND	ND	ND
	Jun 08	1962.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	ND	ND	ND
	Oct 08	1962.86	11.96	1950.90	5.5	3.5	14.3	7.8	25.50	2.2	196	950	3.7	ND	ND
	Feb 09	1962.86	11.48	1951.38	6.7	3.3	0.0	3.8	22.70	2.1	90	1,500	5.2	ND	ND
	Jun 09	1962.86	12.36	1950.50	7.3	3.5	20.2	3.5	23.90	2.3	131	3,500	5.1	ND	ND
	Sep 09	1962.86	13.24	1949.62	6.6	3.9	18.9	4.3	28.00	2.5	136	1,200	ND	ND	ND
	Nov 09	1962.86	13.27	1949.59	5.9	3.3	40.0	3.6	25.80	2.1	132	1,400	4.1	ND	ND
	Feb 10	1962.86	13.37	1949.49	6.9	3.3	9.0	4.0	23.30	2.1	134	1,600	4.8	ND	ND
	Jun 10	1962.86	12.90	1949.96	7.1	3.1	-0.9	8.0	25.10	NM	NM	1,100	3.5	ND	ND
	Oct 10	1962.86	13.43	1949.43	6.7	3.3	-0.7	4.4	26.19	2.2	528	1,300	3.4	ND	ND
	Nov 10	1962.86	13.20	1949.66	6.8	3.3	0.2	4.0	25.79	NM	192	1,200	3.8	ND	ND
	Mar 11	1962.86	12.43	1950.43	7.5	3.4	25.7	7.8	22.14	NM	118	1,000	2.7	ND	ND
	Jun 11	1962.86	13.32	1949.54	7.4	3.4	0.7	4.4	24.99	NM	234	1,300	2.9	ND	ND
	Sep 11	1962.86	13.61	1949.25	7.0	3.4	39.0	6.2	26.60	2.2	276	1,300	3.2	ND	ND
	Nov 11	1962.86	13.39	1949.47	7.0	3.2	NM	4.0	24.97	2.1	178	1,100	3.3	ND	ND
	Mar 12	1962.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1962.9	13.80	1949.10	7.3	3.2	6.1	4.8	25.23	2.1	115	1,300	3.4	ND	ND
	Sep 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-19	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,100	ND	ND	ND
	Jan 04	1980.26	25.65	1954.61	7.0	1.9	NM	1.0	22.40	NM	NM	1,200	ND	ND	ND
	May 05	1980.26	22.70	1957.56	7.1	1.9	NM	5.8	25.00	NM	130	873	ND	ND	ND
	Dec 05	1980.26	23.65	1956.61	6.6	4.7	NM	2.0	24.70	3.0	388	1,300	ND	ND	ND
	Mar 06	1980.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1980.26	25.55	1954.71	NM	3.7	>999	7.9	27.10	2.4	86	910	ND	ND	ND
	Oct 06	1980.26	25.23	1955.03	6.1	3.7	>999	4.6	23.90	2.4	175	840	ND	ND	ND
	Dec 06	1980.26	25.01	1955.25	6.8	4.4	>999	5.7	23.90	2.8	595	1,200	ND	ND	ND
	Mar 07	1980.26	25.77	1954.49	6.9	3.7	>999	9.1	24.30	2.3	284	890	ND	ND	ND
	Jun 07	1980.26	26.84	1953.42	7.1	3.5	>999	6.7	24.50	2.3	551	870	ND	ND	ND
	Sep 07	1980.26	26.41	1953.85	6.8	3.4	352.0	5.1	27.40	2.2	201	510	ND	ND	ND
	Dec 07	1980.26	25.52	1954.74	6.4	3.8	440.0	5.6	24.30	2.4	150	990	ND	ND	ND
	Mar 08	1980.26	25.35	1954.91	7.0	3.7	7.6	5.2	24.80	2.3	190	1,200	NS	NS	NS
	Jun 08	1980.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	930	ND	ND	ND
	Oct 08	1980.24	26.19	1954.05	6.9	3.5	18.0	4.1	24.40	2.2	135	1,300	5.7	ND	ND
	Feb 09	1980.24	25.76	1954.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.24	26.59	1953.65	7.0	3.6	178.0	4.5	25.80	2.3	125	1,400	6.1	ND	ND
	Sep 09	1980.24	27.34	1952.90	6.4	3.9	999.0	4.7	26.60	2.5	157	880	ND	ND	ND
	Nov 09	1980.24	27.42	1952.82	5.9	3.4	>990	2.7	25.50	2.2	131	580	3.7	ND	ND
	Feb 10	1980.24	27.78	1952.46	6.9	3.2	120.0	4.8	23.70	2.1	135	990	5.5	ND	ND
	Jun 10	1980.24	27.08	1953.16	7.0	3.0	2.7	5.0	25.41	NM	NM	930	4.2	ND	ND
	Oct 10	1980.24	27.50	1952.74	7.1	3.2	15.3	5.2	25.28	2.1	394	420	3.2	ND	ND
	Nov 10	1980.24	27.24	1953.00	7.1	3.3	15.5	5.0	25.25	NM	241	840	4.1	ND	ND
	Mar 11	1980.24	26.73	1953.51	6.9	3.4	71.3	5.4	24.59	NM	258	880	3.7	ND	ND
	Jun 11	1980.24	27.55	1952.69	7.4	3.3	20.5	5.0	26.19	NM	190	1,000	3.5	ND	ND
	Sep 11	1980.24	27.68	1952.56	7.0	3.4	570.0	6.5	26.90	2.2	250	950	3.6	ND	ND
	Nov 11	1980.24	27.50	1952.74	7.1	3.1	NM	4.6	23.94	2.0	131	1,100	4.2	ND	ND
	Mar 12	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1980.13	27.88	1952.25	7.5	3.1	27.1	5.3	25.86	2.0	102	1,000	3.5	ND	ND
	Sep 12	1980.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1980.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-20	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,800	ND	ND	ND
	Jan 04	1979.99	25.50	1954.49	6.9	2.1	NM	1.1	22.60	NM	NM	290	2.8	ND	ND
	May 05	1979.99	22.58	1957.41	7.2	1.3	NM	5.0	23.60	NM	131	1,460	ND	ND	ND
	Dec 05	1979.99	23.55	1956.44	6.8	4.4	NM	0.8	20.50	2.8	272	1,800	ND	ND	ND
	Mar 06	1979.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1979.99	25.48	1954.51	NM	3.8	736.0	6.9	28.60	2.1	70	2,100	ND	ND	ND
	Oct 06	1979.99	25.04	1954.95	6.1	2.6	>999	4.1	23.70	1.8	234	2,000	ND	ND	ND
	Dec 06	1979.99	24.85	1955.14	6.8	4.1	284.0	4.3	23.90	2.6	245	2,500	ND	ND	ND
	Mar 07	1979.99	26.63	1953.36	6.9	3.3	999.0	9.8	23.80	2.2	530	1,500	ND	ND	ND
	Jun 07	1979.99	26.76	1953.23	7.0	3.5	>999	5.4	23.80	2.2	346	1,300	ND	ND	ND
	Sep 07	1979.99	26.30	1953.69	6.8	3.3	248.0	4.4	32.50	2.1	207	730	ND	ND	ND
	Dec 07	1979.99	25.38	1954.61	6.3	3.8	24.6	5.4	21.90	2.4	180	1,400	ND	ND	ND
	Mar 08	1979.99	25.12	1954.87	6.9	3.5	33.0	4.0	23.60	2.3	184	1,600	NS	NS	NS
	Jun 08	1979.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	ND	ND	ND
	Oct 08	1979.95	26.05	1953.90	7.3	3.5	-5.0	2.3	25.20	NM	181	1,000	3.5	ND	ND
	Feb 09	1979.95	25.57	1954.38	6.6	3.5	247.0	2.5	23.40	2.2	99	830	ND	ND	ND
	Jun 09	1979.95	26.45	1953.50	6.9	3.7	>-5.0	2.2	23.90	2.3	140	1,100	3.3	ND	ND
	Sep 09	1979.95	27.21	1952.74	6.5	4.1	386.0	2.5	25.70	2.6	146	940	ND	ND	ND
	Nov 09	1979.95	27.30	1952.65	5.8	3.4	380.0	1.9	25.30	2.2	142	640	2.2	ND	ND
	Feb 10	1979.95	27.54	1952.41	6.9	3.3	38.0	2.5	24.30	2.0	130	990	3.3	ND	ND
	Jun 10	1979.95	27.86	1952.09	7.0	3.2	1.4	3.5	24.59	NM	NM	780	2.4	ND	ND
	Oct 10	1979.95	27.35	1952.60	6.4	3.3	39.3	2.9	26.58	2.2	519	340	1.8	ND	ND
	Nov 10	1979.95	27.12	1952.83	6.6	3.4	0.9	3.0	25.50	NM	194	890	2.6	ND	ND
	Mar 11	1979.95	26.59	1953.36	6.9	3.5	49.7	3.4	25.69	NM	237	800	2.3	ND	ND
	Jun 11	1979.95	27.40	1952.55	6.8	3.5	3.1	3.5	31.92	NM	452	740	1.9	ND	ND
	Sep 11	1979.95	27.56	1952.39	6.9	3.6	20.0	3.4	26.50	2.2	182	680	1.8	ND	ND
	Nov 11	1979.95	27.35	1952.60	7.0	3.3	NM	2.8	24.35	2.2	131	800	1.9	ND	ND
	Mar 12	1979.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.82	27.62	1952.20	7.4	3.3	40.1	3.7	25.17	2.2	87	660	2.1	ND	ND
	Sep 12	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-21	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51	ND	ND	ND
	Jan 04	1979.56	24.72	1954.84	6.9	2.0	NM	1.1	22.30	NM	NM	55	ND	ND	ND
	May 05	1979.56	21.76	1957.80	7.1	2.8	NM	2.9	24.60	NM	131	30	ND	ND	ND
	Sep 05	1979.56	22.70	1956.86	7.1	4.7	39.0	4.1	25.80	2.6	109	19	2.4	1.5	ND
	Dec 05	1979.56	22.85	1956.71	6.6	4.6	>999	0.5	24.30	2.9	264	16	1.8	1.3	ND
	Mar 06	1979.56	23.46	1956.10	5.5	3.6	140.0	NM	23.00	2.3	309	43	ND	ND	ND
	Jun 06	1979.56	24.68	1954.88	NM	3.5	>999	4.7	28.50	2.3	112	32	ND	ND	ND
	Oct 06	1979.56	24.35	1955.21	6.2	3.5	>999	2.0	24.10	2.2	79	23	ND	ND	ND
	Dec 06	1979.56	24.15	1955.41	6.7	4.5	617.0	2.7	24.00	2.9	89	39	ND	ND	ND
	Mar 07	1979.56	24.87	1954.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1979.56	25.95	1953.61	7.0	3.4	>999	4.2	24.20	2.2	373	28	ND	ND	ND
	Sep 07	1979.56	25.44	1954.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1979.56	24.34	1955.22	6.2	3.7	>999	4.4	19.30	2.4	117	83	ND	ND	ND
	Mar 08	1979.56	24.19	1955.37	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1979.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1979.54	24.80	1954.74	7.2	3.4	545.0	0.0	24.50	NM	173	20	ND	ND	ND
	Feb 09	1979.54	24.73	1954.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1979.54	25.53	1954.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1979.54	26.39	1953.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1979.54	26.40	1953.14	6.0	3.4	90.0	0.9	24.90	2.2	119	11	ND	ND	ND
	Feb 10	1979.54	26.14	1953.40	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1979.54	26.32	1953.22	6.6	3.5	2.6	0.3	25.18	NM	202	13	ND	ND	ND
	Mar 11	1979.54	25.68	1953.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1979.54	26.57	1952.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1979.54	26.67	1952.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1979.54	26.47	1953.07	6.8	4.0	NM	0.2	24.75	NM	-38	13	ND	ND	ND
	Mar 12	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.25	26.77	1952.48	7.3	3.4	8.6	1.0	26.21	2.2	-127	9.4	ND	ND	ND
	Sep 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-22	May 05	1974.76	23.04	1951.72	6.8	3.9	474.0	1.7	24.10	NM	46	ND	ND	ND	ND
	Sep 05	1974.76	24.18	1950.58	6.9	4.3	10.0	7.2	23.90	2.7	46	ND	ND	ND	ND
	Dec 05	1974.76	24.30	1950.46	6.4	4.2	NM	1.3	24.60	2.7	213	1	ND	ND	ND
	Mar 06	1974.76	24.68	1950.08	4.8	6.1	30.0	NM	24.00	3.8	269	ND	ND	ND	ND
	Jun 06	1974.76	25.91	1948.85	NM	3.4	287.0	6.0	26.40	2.2	376	ND	ND	ND	ND
	Oct 06	1974.76	25.79	1948.97	6.0	3.7	11.0	2.4	23.80	2.4	141	ND	ND	ND	ND
	Dec 06	1974.76	25.49	1949.27	6.5	4.5	0.0	3.5	23.50	2.9	477	ND	ND	ND	ND
	Mar 07	1974.76	24.73	1950.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1974.76	26.91	1947.85	6.7	3.8	26.0	3.4	24.30	2.4	137	ND	ND	ND	ND
	Sep 07	1974.76	26.90	1947.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1974.76	25.88	1948.88	6.3	4.0	55.6	2.3	23.80	2.5	216	ND	ND	ND	ND
	Mar 08	1974.76	25.17	1949.59	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1974.76	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 09	1974.75	25.60	1949.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1974.75	26.59	1948.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1974.75	27.58	1947.17	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1974.75	27.38	1947.37	6.0	3.6	31.0	1.4	24.50	2.3	131	1.4	ND	ND	ND
	Feb 10	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1974.75	27.82	1946.93	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1974.75	27.55	1947.20	6.7	3.7	0.1	1.6	24.30	NM	129	ND	ND	ND	ND
	Mar 11	1974.75	26.58	1948.17	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1974.75	27.45	1947.30	7.2	3.4	50.2	5.2	24.89	NM	266	NS	NS	NS	NS
	Sep 11	1974.75	27.87	1946.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1974.75	27.57	1947.18	6.9	3.6	NM	1.6	23.70	2.3	88	0.55	ND	ND	ND
	Mar 12	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1975.19	28.05	1947.14	6.8	4.1	250.0	4.0	26.20	2.6	102	0.58	ND	ND	ND
	Sep 12	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-23	May 05	1962.32	13.06	1949.26	7.0	3.6	NM	2.6	24.50	NM	121	1,430	ND	ND	ND
	Dec 05	1962.32	14.05	1948.27	6.7	4.9	NM	2.1	24.90	3.1	320	1,900	ND	ND	ND
	Mar 06	1962.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1962.32	15.60	1946.72	NM	3.7	318.0	5.8	23.80	2.3	238	1,500	ND	ND	ND
	Oct 06	1962.32	15.48	1946.84	6.3	3.5	0.0	2.5	24.00	2.2	107	2,000	ND	ND	ND
	Dec 06	1962.32	15.16	1947.16	6.8	4.2	0.0	3.2	24.20	2.7	2	2,100	ND	ND	ND
	Mar 07	1962.32	15.12	1947.20	NM	NM	NM	NM	NM	NM	NM	2.1	ND	ND	ND
	Jun 07	1962.32	16.40	1945.92	7.0	3.5	31.0	4.2	23.50	2.2	301	1,300	ND	ND	ND
	Sep 07	1962.32	16.61	1945.71	6.8	3.3	1.0	3.8	25.80	2.1	204	750	ND	ND	ND
	Dec 07	1962.32	15.80	1946.52	6.3	3.7	0.0	5.5	22.10	2.4	250	1,200	ND	ND	ND
	Mar 08	1962.32	15.18	1947.14	7.0	6.3	0.4	2.2	24.00	4.1	188	1,400	ND	ND	ND
	Jun 08	1962.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,100	ND	ND	ND
	Oct 08	1962.29	16.34	1945.95	6.7	3.5	18.3	2.0	23.40	2.3	170	1,300	4.4	ND	ND
	Feb 09	1962.29	15.41	1946.88	6.7	3.4	0.0	1.1	23.00	2.2	82	1,100	ND	ND	ND
	Jun 09	1962.29	16.40	1945.89	7.2	3.6	7.1	0.6	23.80	2.3	124	1,400	4.6	ND	ND
	Sep 09	1962.29	17.30	1944.99	6.6	4.0	24.5	2.0	25.40	2.5	133	1,200	ND	ND	ND
	Nov 09	1962.29	17.31	1944.98	5.9	3.3	51.0	2.0	24.80	2.1	139	880	3.2	ND	ND
	Feb 10	1962.29	17.18	1945.11	6.8	3.4	9.0	1.8	23.70	2.2	135	1,000	3.8	ND	ND
	Jun 10	1962.29	16.93	1945.36	7.0	3.2	3.8	4.2	26.24	NM	NM	900	2.6	ND	ND
	Oct 10	1962.29	17.53	1944.76	5.7	3.4	-0.1	2.2	23.60	2.2	610	1,100	2.6	ND	ND
	Nov 10	1962.29	17.30	1944.99	7.0	3.4	0.1	2.5	22.72	NM	76	970	2.7	ND	ND
	Mar 11	1962.29	16.30	1945.99	6.9	3.6	2.9	1.9	23.42	NM	202	1,100	2.5	ND	ND
	Jun 11	1962.29	17.22	1945.07	NM	NM	NM	NM	NM	NM	NM	970	2.3	ND	ND
	Sep 11	1962.29	17.67	1944.62	6.9	3.5	8.0	3.0	24.50	2.2	229	1,000	2.4	ND	ND
	Nov 11	1962.29	17.41	1944.88	7.0	3.3	NM	2.3	23.58	2.1	170	1,100	2.4	ND	ND
	Mar 12	1962.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1962.45	17.83	1944.62	7.3	3.2	5.1	5.8	24.66	2.1	114	950	2.3	ND	ND
	Sep 12	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

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**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-24	May 05	1960.74	10.72	1950.02	7.0	3.6	>999	1.5	23.10	NM	76	ND	ND	ND	ND
	Sep 05	1960.74	11.75	1948.99	7.0	3.8	25.0	3.6	25.80	2.4	5	4.3	ND	ND	ND
	Dec 05	1960.74	11.65	1949.09	6.6	4.5	29.0	1.0	25.60	2.7	183	6.7	ND	ND	ND
	Mar 06	1960.74	12.10	1948.64	4.7	6.0	1.0	NM	22.60	3.8	503	6.5	ND	ND	ND
	Jun 06	1960.74	13.16	1947.58	NM	3.4	201.0	5.1	25.10	2.2	132	5.6	ND	ND	ND
	Oct 06	1960.74	13.06	1947.68	6.2	3.2	0.0	1.2	25.50	2.0	-23	2.6	ND	ND	ND
	Dec 06	1960.74	12.80	1947.94	6.9	4.1	0.0	2.6	25.10	2.6	62	2.6	ND	ND	ND
	Mar 07	1960.74	12.88	1947.86	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Jun 07	1960.74	13.94	1946.80	7.1	3.3	23.0	2.5	23.20	2.1	409	ND	ND	ND	ND
	Sep 07	1960.74	14.24	1946.50	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1960.74	13.58	1947.16	6.2	3.5	0.0	1.7	24.40	2.2	118	NS	NS	NS	NS
	Mar 08	1960.74	12.98	1947.76	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1960.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1960.73	14.03	1946.70	6.8	3.4	-2.3	1.1	25.20	2.1	152	6.1	ND	ND	ND
	Feb 09	1960.73	13.20	1947.53	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1960.73	14.10	1946.63	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1960.73	14.93	1945.80	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1960.73	14.99	1945.74	5.9	3.1	45.0	1.4	26.50	1.9	130	2.9	ND	ND	ND
	Feb 10	1960.73	14.23	1946.50	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1960.73	15.16	1945.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1960.73	14.90	1945.83	7.0	3.2	-0.8	1.4	25.24	NM	68	0.81	ND	ND	ND
	Mar 11	1960.73	14.06	1946.67	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1960.73	14.89	1945.84	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1960.73	15.31	1945.42	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1960.73	15.12	1945.61	7.0	3.1	NM	1.3	24.98	2.0	149	0.95	ND	ND	ND
	Mar 12	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1960.82	15.49	1945.33	6.9	3.4	110.0	1.8	25.00	2.2	94	1.3	ND	ND	ND
	Sep 12	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-25	May 05	1960.74	16.01	1944.73	7.0	4.0	>999	4.3	23.60	NM	141	993	ND	ND	ND
	Sep 05	1960.74	17.45	1943.29	7.0	4.2	30.0	5.1	26.20	2.7	57	920	ND	ND	ND
	Dec 05	1960.74	16.85	1943.89	6.6	5.3	0.0	1.4	24.70	3.3	417	1,000	ND	ND	ND
	Mar 06	1960.74	17.30	1943.44	5.2	6.7	94.0	NM	23.60	4.2	255	970	ND	ND	ND
	Jun 06	1960.74	18.64	1942.10	NM	3.9	228.0	5.7	23.50	2.5	376	960	ND	ND	ND
	Oct 06	1960.74	18.75	1941.99	6.2	3.7	0.0	3.1	23.60	2.4	106	1,300	ND	ND	ND
	Dec 06	1960.74	18.61	1942.13	6.7	4.5	0.0	3.8	23.90	2.8	429	1,200	ND	ND	ND
	Mar 07	1960.74	17.72	1943.02	7.0	3.7	>999	7.5	23.30	2.4	258	670	ND	ND	ND
	Jun 07	1960.74	19.31	1941.43	7.0	3.7	50.0	4.5	23.00	2.4	485	960	ND	ND	ND
	Sep 07	1960.74	19.96	1940.78	6.7	3.5	15.0	3.6	27.00	2.3	195	560	ND	ND	ND
	Dec 07	1960.74	18.92	1941.82	6.3	3.9	0.0	4.8	19.40	2.5	168	780	ND	ND	ND
	Mar 08	1960.74	17.87	1942.87	6.9	3.7	11.9	2.5	24.40	2.3	170	890	ND	ND	ND
	Jun 08	1960.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	630	ND	ND	ND
	Oct 08	1960.73	19.84	1940.89	6.8	3.7	30.2	2.3	23.50	2.4	-94	730	1.5	ND	ND
	Feb 09	1960.73	18.07	1942.66	6.7	3.5	0.0	2.1	23.70	2.3	66	770	ND	ND	ND
	Jun 09	1960.73	19.35	1941.38	7.2	3.7	6.9	1.2	24.10	2.4	127	880	2.0	ND	ND
	Sep 09	1960.73	18.60	1942.13	6.5	4.2	14.2	2.5	25.90	2.7	136	770	ND	ND	ND
	Nov 09	1960.73	20.65	1940.08	5.8	3.5	66.0	2.2	24.70	2.2	140	570	1.3	ND	ND
	Feb 10	1960.73	19.81	1940.92	6.8	3.5	9.0	2.2	22.50	2.2	122	460	2.3	ND	ND
	Jun 10	1960.73	19.85	1940.88	7.0	3.3	-0.1	5.5	26.26	NM	NM	550	0.9	ND	ND
	Oct 10	1960.73	20.85	1939.88	5.9	3.5	-0.7	2.4	24.21	2.3	603	760	0.9	ND	ND
	Nov 10	1960.73	20.62	1940.11	6.7	3.5	0.5	2.8	25.16	NM	182	550	0.9	ND	ND
	Mar 11	1960.73	18.97	1941.76	7.0	3.4	0.0	4.1	20.24	NM	115	420	0.6	ND	ND
	Jun 11	1960.73	19.83	1940.90	7.3	3.6	-1.2	2.4	24.31	NM	216	700	0.8	ND	ND
	Sep 11	1960.73	20.83	1939.90	6.9	3.7	4.0	2.9	24.00	2.3	257	680	0.8	ND	ND
	Nov 11	1960.73	20.62	1940.11	7.0	3.4	NM	2.3	23.26	2.2	166	740	0.82	ND	ND
	Mar 12	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1959.29	21.06	1938.23	6.8	3.9	56.0	2.9	25.20	2.5	89	640	0.88	ND	ND
	Sep 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-26	Mar 06	1953.48	15.60	1937.88	6.8	3.8	0.0	2.6	23.80	2.4	158	730	ND	ND	ND
	Jun 06	1953.48	17.00	1936.48	NM	2.3	229.0	4.8	24.10	1.5	305	770	ND	ND	ND
	Oct 06	1953.48	17.17	1936.31	6.2	69.4	0.0	2.9	23.70	2.4	180	1,100	ND	ND	ND
	Dec 06	1953.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 07	1953.48	15.66	1937.82	7.0	3.8	>999	7.1	23.50	2.4	422	790	ND	ND	ND
	Jun 07	1953.48	17.50	1935.98	7.0	3.5	41.0	4.8	23.60	2.5	517	960	ND	ND	ND
	Sep 07	1953.48	18.12	1935.36	6.7	3.6	5.0	3.5	27.10	2.3	176	620	ND	ND	ND
	Dec 07	1953.48	17.01	1936.47	6.4	4.0	0.0	5.1	21.70	2.5	212	910	ND	ND	ND
	Mar 08	1953.48	15.91	1937.57	7.0	3.8	0.7	7.9	24.30	2.4	176	1,100	ND	ND	ND
	Jun 08	1953.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	930	ND	ND	ND
	Oct 08	1953.48	18.34	1935.14	6.8	3.9	-7.2	2.7	24.00	2.5	86	900	1.4	ND	ND
	Feb 09	1953.48	16.04	1937.44	6.7	3.7	0.0	3.3	23.90	2.3	82	960	ND	ND	ND
	Jun 09	1953.48	17.57	1935.91	7.2	3.8	49.3	2.2	25.40	2.5	133	970	1.5	ND	ND
	Sep 09	1953.48	18.79	1934.69	6.6	4.3	10.5	2.8	26.40	2.8	137	910	ND	ND	ND
	Nov 09	1953.48	18.85	1934.63	5.8	3.6	210.0	2.8	24.30	2.3	139	690	ND	ND	ND
	Feb 10	1953.48	17.61	1935.87	6.9	3.6	7.0	2.5	22.60	2.3	143	790	1.8	ND	ND
	Jun 10	1953.48	17.95	1935.53	7.0	2.4	0.2	6.6	26.14	NM	NM	680	0.7	ND	ND
	Oct 10	1953.48	19.09	1934.39	6.8	3.7	-0.8	2.0	24.60	2.4	504	450	0.6	ND	ND
	Nov 10	1953.48	18.75	1934.73	6.9	3.7	0.6	2.6	24.91	NM	92	750	0.7	ND	ND
	Mar 11	1953.48	18.83	1934.65	6.9	3.8	0.0	2.7	23.78	NM	141	760	0.6	ND	ND
	Jun 11	1953.48	17.82	1935.66	6.7	3.7	-1.2	2.0	25.86	NM	475	860	0.67	ND	ND
	Sep 11	1953.48	19.04	1934.44	6.9	3.8	7.0	2.9	24.40	2.4	260	780	0.6	ND	ND
	Nov 11	1953.48	18.72	1934.76	7.0	3.6	NM	2.1	23.33	2.3	161	690	0.61	ND	ND
	Mar 12	1953.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1953.45	19.24	1934.21	6.8	4.1	72.0	2.8	26.00	2.6	85	740	0.54	ND	ND
	Sep 12	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

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**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-27	Mar 06	1944.23	13.48	1930.75	6.8	3.3	0.0	2.4	21.90	2.1	142	220	ND	ND	ND
	Jun 06	1944.23	18.50	1925.73	NM	3.7	626.0	4.6	26.10	2.3	69	350	ND	ND	ND
	Oct 06	1944.23	16.16	1928.07	6.2	3.3	0.0	2.8	22.20	2.1	155	380	ND	ND	ND
	Dec 06	1944.23	13.85	1930.38	6.8	4.0	507.0	4.5	22.20	2.6	444	380	ND	ND	ND
	Mar 07	1944.23	12.58	1931.65	7.0	3.3	83.0	7.0	21.90	2.1	181	160	ND	ND	ND
	Jun 07	1944.23	18.43	1925.80	7.0	3.3	238.0	4.1	22.20	2.1	392	340	ND	ND	ND
	Sep 07	1944.23	17.85	1926.38	6.8	3.4	22.0	3.4	24.20	2.2	198	320	ND	ND	ND
	Dec 07	1944.23	14.41	1929.82	6.4	3.8	0.0	3.5	20.60	2.5	153	430	ND	ND	ND
	Mar 08	1944.23	13.65	1930.58	7.0	3.4	1.4	2.5	22.60	2.2	174	580	ND	ND	ND
	Jun 08	1944.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	320	ND	ND	ND
	Oct 08	1944.23	18.33	1925.90	6.5	3.8	25.2	1.1	22.59	2.4	105	510	2.6	ND	ND
	Feb 09	1944.23	13.22	1931.01	6.6	3.6	0.0	0.7	21.90	2.3	108	510	ND	ND	ND
	Jun 09	1944.23	18.39	1925.84	7.1	3.9	0.0	0.5	24.10	2.5	128	570	3.3	ND	ND
	Sep 09	1944.23	19.73	1924.50	6.6	4.3	-6.7	0.9	24.20	2.7	131	640	ND	ND	ND
	Nov 09	1944.23	18.92	1925.31	NM	NM	NM	NM	NM	NM	NM	400	2.0	ND	ND
	Feb 10	1944.23	13.00	1931.23	NM	NM	NM	NM	NM	NM	NM	770	3.5	ND	ND
	Jun 10	1944.23	17.77	1926.46	7.1	3.4	10.2	6.8	24.66	NM	NM	330	1.4	ND	ND
	Oct 10	1944.23	18.87	1925.36	6.9	3.6	0.4	1.4	22.95	2.4	434	420	1.4	ND	ND
	Nov 10	1944.23	17.19	1927.04	6.8	3.7	2.9	1.5	23.57	NM	115	480	1.8	ND	ND
	Mar 11	1944.23	12.99	1931.24	7.0	3.7	259.3	6.7	21.37	NM	108	370	1.2	ND	ND
	Jun 11	1944.23	16.68	1927.55	7.3	3.7	-1.4	1.6	23.61	NM	180	440	1.3	ND	ND
	Sep 11	1944.23	20.23	1924.00	6.8	3.8	10.0	2.2	23.60	2.4	237	470	1.3	ND	ND
	Nov 11	1944.23	17.32	1926.91	7.0	3.5	NM	2.1	22.62	2.3	164	380	1.3	ND	ND
	Mar 12	1944.23	16.22	1928.01	7.2	3.6	5.9	2.5	23.10	2.4	-58	470	NS	NS	NS
	Jun 12	1944.15	14.46	1929.69	6.8	3.9	230.0	2.9	23.80	2.4	108	440	0.97	ND	ND
	Sep 12	1944.15	18.54	1925.61	7.3	3.6	NM	2.1	23.06	2.3	152	430	1.2	ND	ND
	Nov 12	1944.15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

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**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-28	Nov 07	1942.97	14.02	1928.95	6.8	4.2	196.0	9.6	26.80	2.7	125	3	ND	ND	ND
	Dec 07	1942.97	12.80	1930.17	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1942.97	11.61	1931.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1942.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Oct 08	1942.96	14.60	1928.36	6.8	4.2	165.0	0.6	22.80	2.7	82	2.2	ND	ND	ND
	Feb 09	1942.96	11.66	1931.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1942.96	13.91	1929.05	7.2	4.2	63.8	0.0	23.50	2.7	119	3.3	ND	ND	ND
	Sep 09	1942.96	14.96	1928.00	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1942.96	14.83	1928.13	6.0	3.8	180.0	1.1	23.20	2.5	136	1.3	ND	ND	ND
	Feb 10	1942.96	12.78	1930.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1942.96	13.91	1929.05	7.0	3.7	3.7	3.3	23.89	NM	NM	0.94	ND	ND	ND
	Oct 10	1942.96	14.93	1928.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1942.96	14.31	1928.65	6.7	3.9	0.6	0.9	24.25	NM	162	0.66	ND	ND	ND
	Mar 11	1942.96	12.10	1930.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1942.96	13.50	1929.46	7.0	4.0	2.4	0.7	23.71	NM	185	ND	ND	ND	ND
	Sep 11	1942.96	14.93	1928.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1942.96	14.42	1928.54	7.0	3.7	NM	1.0	22.10	2.4	157	0.62	ND	ND	ND
	Mar 12	1942.96	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1943.07	15.30	1927.77	6.8	4.1	32.0	1.1	22.70	2.6	133	0.73	ND	ND	ND
	Sep 12	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-29	Nov 07	1932.27	14.20	1918.07	6.9	4.3	15.1	6.0	21.80	2.7	108	2.5	ND	ND	ND
	Dec 07	1932.27	14.01	1918.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1932.27	13.77	1918.50	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1932.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Oct 08	1932.25	14.44	1917.81	6.8	4.0	500.0	3.9	20.00	2.6	122	2.2	ND	ND	ND
	Feb 09	1932.25	13.81	1918.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1932.25	13.98	1918.27	7.2	4.0	212.0	3.3	20.50	2.6	133	1.3	ND	ND	ND
	Sep 09	1932.25	14.38	1917.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1932.25	14.37	1917.88	6.1	3.8	200.0	3.9	20.80	2.4	139	ND	ND	ND	ND
	Feb 10	1932.25	14.19	1918.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1932.25	13.92	1918.33	6.9	3.5	3.8	4.8	23.43	NM	NM	0.58	ND	ND	ND
	Oct 10	1932.25	14.19	1918.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1932.25	13.90	1918.35	6.8	3.9	1.5	4.0	21.09	NM	138	ND	ND	ND	ND
	Mar 11	1932.25	13.52	1918.73	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1932.25	13.65	1918.60	6.9	3.9	-1.4	4.1	20.62	NM	232	ND	ND	ND	ND
	Sep 11	1932.25	13.84	1918.41	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1932.25	13.85	1918.40	7.0	3.7	NM	4.0	19.77	2.4	183	ND	ND	ND	ND
	Mar 12	1932.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1932.35	13.99	1918.36	6.9	3.8	79.0	5.2	20.30	2.4	133	ND	ND	ND	ND
	Sep 12	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
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**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-30	Nov 07	1940.56	20.11	1920.45	6.8	3.7	144.0	3.1	24.20	2.4	135	74	ND	ND	ND
	Dec 07	1940.56	17.12	1923.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1940.56	16.32	1924.24	6.9	3.3	7.2	3.7	18.80	2.1	204	86	ND	ND	ND
	Jun 08	1940.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	49	ND	ND	ND
	Oct 08	1940.56	20.91	1919.65	6.7	3.7	221.0	0.9	20.10	2.4	124	100	1.8	ND	ND
	Feb 09	1940.56	16.05	1924.51	6.6	3.3	7.2	3.2	19.60	2.1	97	71	ND	ND	ND
	Jun 09	1940.56	19.88	1920.68	7.1	3.7	34.3	1.2	21.40	2.3	141	110	2.0	ND	ND
	Sep 09	1940.56	21.57	1918.99	6.6	4.2	0.8	2.0	23.40	2.7	127	70	1.1	ND	ND
	Nov 09	1940.56	20.55	1920.01	5.9	3.3	-10.0	2.3	20.40	2.1	167	85	1.4	ND	ND
	Feb 10	1940.56	16.49	1924.07	6.7	3.2	12.0	3.9	19.60	2.1	162	60	ND	ND	ND
	Jun 10	1940.56	18.98	1921.58	6.9	2.9	1.0	5.3	25.04	NM	NM	41	ND	ND	ND
	Oct 10	1940.56	20.63	1919.93	6.0	3.1	0.1	4.2	21.95	2.0	595	62	ND	ND	ND
	Nov 10	1940.56	19.32	1921.24	6.6	3.1	0.7	4.4	22.09	NM	212	54	ND	ND	ND
	Mar 11	1940.56	15.85	1924.71	6.5	3.3	0.0	4.7	19.41	NM	142	50	ND	ND	ND
	Jun 11	1940.56	18.17	1922.39	6.3	3.1	-1.1	4.2	22.48	NM	446	50	ND	ND	ND
	Sep 11	1940.56	21.28	1919.28	7.1	2.9	16.0	7.9	22.20	1.9	237	25	ND	ND	ND
	Nov 11	1940.56	19.47	1921.09	7.0	2.8	NM	4.7	20.48	1.8	182	38	ND	ND	ND
	Mar 12	1940.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1940.59	21.42	1919.17	6.9	3.2	210.0	3.7	21.00	2.0	125	84	0.73	ND	ND
	Sep 12	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*															

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-31	Mar 08	1937.93	15.23	1922.70	7.0	4.7	125.0	6.0	22.50	2.9	152	49	ND	ND	ND
	Jun 08	1937.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	31	ND	ND	ND
	Oct 08	1937.93	18.94	1918.99	6.7	4.2	265.0	3.6	22.40	2.7	123	39	ND	ND	ND
	Feb 09	1937.93	15.59	1922.34	6.5	4.0	11.0	3.4	21.90	2.6	99	44	ND	ND	ND
	Jun 09	1937.93	17.30	1920.63	7.0	4.3	77.9	4.6	21.10	2.8	137	45	ND	ND	ND
	Sep 09	1937.93	19.08	1918.85	6.6	4.8	45.2	4.9	23.60	3.0	124	38	ND	ND	ND
	Nov 09	1937.93	18.40	1919.53	6.0	4.0	230.0	4.0	22.90	2.5	141	24	ND	ND	ND
	Feb 10	1937.93	16.41	1921.52	6.7	4.0	18.0	3.9	21.10	2.5	148	34	1.2	ND	ND
	Jun 10	1937.93	16.94	1920.99	6.9	3.7	14.8	5.2	23.60	NM	NM	34	ND	ND	ND
	Oct 10	1937.93	18.80	1919.13	5.9	4.0	3.5	3.9	22.86	2.6	582	30	ND	ND	ND
	Nov 10	1937.93	18.33	1919.60	6.5	4.0	10.1	3.9	24.41	NM	225	27	ND	ND	ND
	Mar 11	1937.93	15.70	1922.23	6.9	4.1	22.7	5.0	22.63	NM	145	26	ND	ND	ND
	Jun 11	1937.93	16.76	1921.17	6.2	4.0	9.8	4.2	25.43	NM	480	64	ND	ND	ND
	Sep 11	1937.93	18.73	1919.20	6.8	4.1	9.5	4.8	24.90	2.6	256	57	ND	ND	ND
	Nov 11	1937.93	17.93	1920.00	6.9	3.8	NM	3.9	21.23	2.5	178	58	ND	ND	ND
	Mar 12	1937.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1937.66	18.37	1919.29	6.8	4.1	440.0	3.9	23.20	2.6	121	44	0.52	ND	ND
MW-32	Sep 12	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1952.82	17.25	1935.57	7.4	3.6	5.4	2.4	23.30	2.3	136	720	ND	ND	ND
	Jun 08	1952.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	750	ND	ND	ND
	Oct 08	1952.82	19.95	1932.87	6.9	3.8	23.7	1.0	23.80	2.4	-101	990	6.1	ND	ND
	Feb 09	1952.82	17.22	1935.60	6.7	3.6	22.5	1.0	23.40	2.3	75	1,000	7.2	ND	ND
	Jun 09	1952.82	19.14	1933.68	7.1	3.7	32.7	2.7	23.40	2.4	120	1,000	5.3	ND	ND
	Sep 09	1952.82	20.47	1932.35	6.5	4.2	4.1	1.2	25.30	2.7	157	1,000	ND	ND	ND
	Nov 09	1952.82	20.44	1932.38	5.8	3.4	180.0	2.8	24.10	2.2	145	660	3.7	ND	ND
	Feb 10	1952.82	18.81	1934.01	6.8	3.5	16.0	1.6	22.70	2.2	158	830	5.4	ND	ND
	Jun 10	1952.82	19.46	1933.36	7.0	3.2	1.2	6.3	26.41	NM	NM	480	2.6	ND	ND
	Oct 10	1952.82	20.77	1932.05	6.5	3.5	8.2	2.7	24.89	2.3	585	660	2.7	ND	ND
	Nov 10	1952.82	20.40	1932.42	6.6	3.5	1.9	2.4	24.50	NM	244	740	3.3	ND	ND
	Mar 11	1952.82	18.21	1934.61	7.1	3.5	4.3	6.7	23.41	NM	111	610	2.3	ND	ND
	Jun 11	1952.82	19.40	1933.42	6.8	3.5	-1.3	3.4	24.82	NM	424	790	2.3	ND	ND
	Sep 11	1952.82	20.91	1931.91	6.9	3.6	10.0	5.1	24.40	2.3	274	610	1.9	ND	ND
	Nov 11	1952.82	20.24	1932.58	7.0	3.3	NM	3.3	23.32	2.2	161	700	2.7	ND	ND
MW-32	Mar 12	1952.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1952.90	20.94	1931.96	6.9	3.6	240.0	4.7	25.10	2.3	101	640	2	ND	ND
	Sep 12	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-33	Mar 08	1950.92	16.02	1934.90	7.0	3.5	82.4	7.6	20.30	2.2	161	2.4	ND	ND	ND
	Jun 08	1950.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Oct 08	1950.92	18.00	1932.92	6.7	3.8	6.7	1.0	22.20	2.4	85	3.4	ND	ND	ND
	Feb 09	1950.92	16.11	1934.81	6.4	3.7	0.0	0.0	21.30	2.4	120	ND	ND	ND	ND
	Jun 09	1950.92	17.28	1933.64	7.0	4.0	0.0	0.0	21.40	2.5	138	ND	ND	ND	ND
	Sep 09	1950.92	18.93	1931.99	6.6	4.2	2.2	1.2	23.50	2.7	166	3.3	ND	ND	ND
	Nov 09	1950.92	18.78	1932.14	6.0	3.5	200.0	1.7	22.60	2.2	136	1.4	ND	ND	ND
	Feb 10	1950.92	17.28	1933.64	6.7	3.5	0.0	0.7	21.50	2.2	146	ND	ND	ND	ND
	Jun 10	1950.92	17.71	1933.21	6.9	3.4	1.1	2.1	28.96	NM	NM	ND	ND	ND	ND
	Oct 10	1950.92	19.42	1931.50	6.1	3.6	3.7	1.4	23.04	2.3	558	ND	ND	ND	ND
	Nov 10	1950.92	19.25	1931.67	6.6	3.6	1.7	1.6	23.34	NM	217	ND	ND	ND	ND
	Mar 11	1950.92	17.36	1933.56	6.5	3.8	2.8	1.7	21.27	NM	107	ND	ND	ND	ND
	Jun 11	1950.92	18.00	1932.92	7.3	3.8	-1.2	0.8	22.54	NM	74	ND	ND	ND	ND
	Sep 11	1950.92	19.31	1931.61	6.9	3.8	10.0	4.2	23.10	2.4	191	ND	ND	ND	ND
	Nov 11	1950.92	18.72	1932.20	7.0	3.6	NM	2.2	21.62	2.3	181	ND	ND	ND	ND
*	Mar 12	1950.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1950.98	19.03	1931.95	6.8	4.0	130.0	1.3	22.90	2.5	136	ND	ND	ND	ND
	Sep 12	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
MW-34	Dec 11	--		--								910	NS	NS	NS
	Jan 12	--		--								1000	NS	NS	NS
	Mar 12	--		--	7.2	3.7	27.4	2.0	22.63	2.4	-47	1000	NS	NS	NS
	Jun 12	1993.88	17.74	1976.14	7.3	3.4	16.4	2.4	24.19	2.4	89	860	0.97	ND	ND
	Sep 12	1993.88	18.07	1975.81	7.3	3.6	NM	2.1	24.43	2.4	141	730	1.2	ND	ND
	Nov 12	1993.88	17.75	1976.13	8.0	3.7	NM	2.0	24.86	2.4	45	550	1.1	<0.50	<0.50
MW-35	Dec 11	--		--								410	NS	NS	NS
	Jan 12	--		--								630	NS	NS	NS
	Mar 12	--	20.03	--	7.3	3.4	181.0	3.6	23.81	2.2	-21	580	NS	NS	NS
	Jun 12	1991.37	18.90	1972.47	7.3	3.4	87.1	4.0	24.30	2.2	100	530	ND	ND	ND
	Sep 12	1991.37	18.77	1972.60	7.2	3.4	NM	3.5	23.19	2.2	150	520	ND	ND	ND
	Nov 12	1991.37	18.55	1972.82	8.0	3.4	NM	3.9	24.06	2.2	70	480	<0.50	<0.50	<0.50
MW-36	Mar 12	1955.30	19.51	1935.79	7.1	3.5	15.8	2.3	23.44	2.3	-62	160	NS	NS	NS
	Jun 12	1955.30	21.26	1934.04	6.8	3.8	110.0	2.2	25.30	2.5	74	130	ND	ND	ND
	Sep 12	1955.30	21.55	1933.75	7.5	3.4	NM	1.9	25.53	2.2	128	130	ND	ND	ND
	Nov 12	1955.30	20.62	1934.68	7.8	3.5	NM	2.1	22.87	2.7	71	150	<0.50	<0.50	<0.50

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-37 *	Mar 12	1930.06	18.89	1911.17	7.2	3.7	9.5	5.6	20.42	2.4	-27	36	NS	NS	NS
	Jun 12	1929.98	19.10	1910.88	6.9	3.8	200.0	6.3	20.80	2.4	128	34	ND	ND	ND
	Sep 12	1929.98	20.05	1909.93	7.4	3.7	NM	5.5	21.79	2.4	144	32	ND	ND	ND
	Nov 12	1929.98	19.66	1910.32	7.9	3.8	NM	5.0	20.46	2.5	97	31	<0.50	<0.50	<0.50
MW-38	Jun 12	1908.38	15.05	1893.33	6.8	3.9	550.0	5.0	22.00	2.5	124	5.8	ND	ND	ND
	Sep 12	1908.38	14.95	1893.43	7.6	3.8	NM	4.2	24.26	2.5	140	5.7	ND	ND	ND
	Nov 12	1908.38	14.69	1893.69	7.9	3.8	NM	3.6	22.20	2.5	89	5.9	<0.50	<0.50	<0.50
MW-39	Jun 12	1967.55	26.15	1941.40	7.3	3.4	252.0	3.3	25.73	2.2	50	250	0.63	ND	ND
	Sep 12	1967.55	26.10	1941.45	7.4	3.5	NM	1.6	25.75	2.2	132	240	0.83	ND	ND
	Nov 12	1967.55	25.51	1942.04	7.7	3.5	NM	2.2	22.11	2.3	61	270	0.91	<0.50	<0.50
MW-40 CMT-30	Nov 12		25.28		7.9	3.6	NM	2.6	17.9	2.3	-68	340	1.1	<0.50	<0.50
MW-40 CMT-35	Nov 12		25.30		8.1	4.1	NM	1.9	17.8	2.7	-163	260	6.6	<0.50	<0.50
MW-40 CMT-40	Nov 12		25.34		8.1	3.1	NM	2.0	20.4	2.0	-132	320	1.7	<0.50	<0.50
MW-40 CMT-45	Nov 12		25.28		8.0	3.3	NM	2.1	20.5	2.1	-159	280	1.9	<0.50	<0.50
MW-40 CMT-50	Nov 12		25.28		8.2	3.4	NM	2.0	19.3	2.2	-175	300	2.5	<0.50	<0.50
MW-40 CMT-55	Nov 12		25.33		8.0	2.9	NM	3.6	20.6	1.9	-55	930	4.0	1.7	<0.50
MW-40 CMT-60	Nov 12		25.38		8.0	3.2	NM	2.6	18.9	2.1	-128	1,400	11	6.3	<0.50

**Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center**

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-14I															
MW-19I	Sep 12	1967.55	26.60	1940.95	7.7	3.0	NM	3.9	26.53	2.0	131	690	4.0	0.8	ND
	Nov 12	1967.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Notes:

NM = Not Measured
 msl = mean sea level
 ND = Non Detect
 NS = Not Sampled
 µg/L = micrograms per liter

°C = degrees Celsius
 g/L = gallons per liter
 mg/L = milligrams per liter
 mS/cm = milli Siemens per centimeter
 mV = millivolts
 NTU = Nephelometric Turbidity Units

*: All wells were resurveyed to determine top of casing elevation

FIGURES

SITE LOCATION



1 inch = 1,000 feet

Note: Scale and location are approximate

SOURCE: Google Earth



SITE VICINITY MAP

MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NEVADA

PROJECT NUMBER: 085.42620.0001

DATE: 12/12

Figure
1

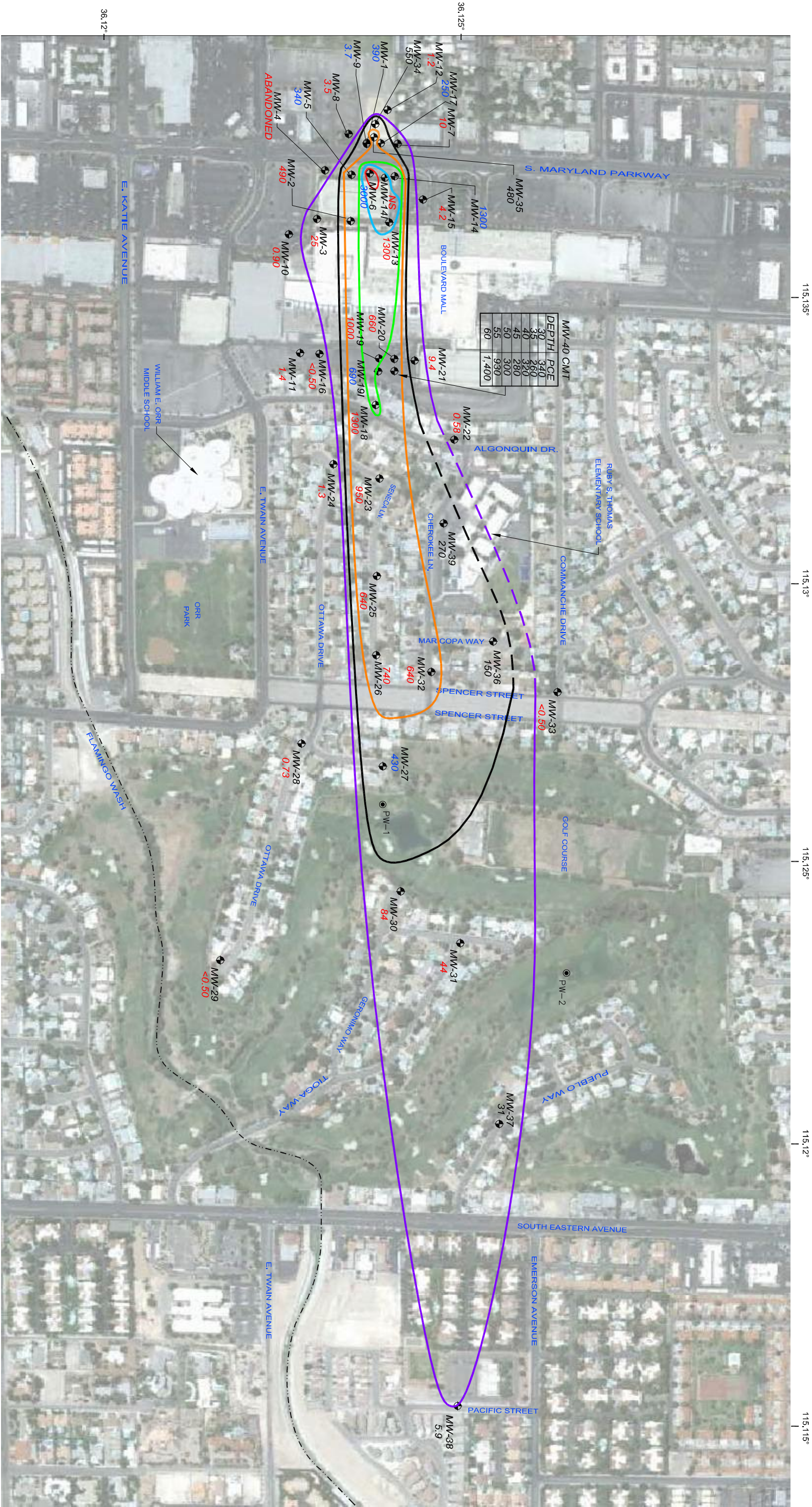
APPROVED BY: ADS

DRAWN BY: ABK



2925 East Patrick Lane, Suite M
Las Vegas, Nevada 89120-2457

Ph: (702) 798-5750 *** Fax: (702) 798-5742



**PCE ISOCONCENTRATION MAP
(JUNE, SEPTEMBER, AND NOVEMBER)**
MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NV

Maryland Square PCE Site

APPENDIX A

FIELD SHEETS



CARDNO ATC
2925 EAST PATRICK LANE, SUITE M
LAS VEGAS, NEVADA 89120-2457
(702) 798-5750 (702) 796-5742 fax

DATE: 11/8-11/9 RECORDED BY: Adam + Norm MEASURING DEVICE: WLI

[illegible]

1.5 PID
1 Vacuum
12:57 Sample Collection Time

1.4 PID
 Vacuum
14.4 Sample Collection Time

1.5 PID
— Vacuum
15:59 Sample Collection Time

Maryland Square PCE Site

APPENDIX B

LABORATORY ANALYTICAL REPORTS

November 19, 2012

Andrew Stuart
Cardno ATC
2925 E. Patrick Lane, Ste M
Las Vegas, NV 89120
TEL: (702) 798-5750
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N008896

RE: Maryland Square, 085.42620.0001

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on November 12, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

I hereby certify that all laboratory analysis requested were performed by Nevada Division of Environmental Protection-certified laboratory for the parameters and matrices reported herein.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Jose Tenorio Jr.
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N008896

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Analytical Comments for EPA 8260B:

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) were not performed due to limited sample. LCS/LCSD was used instead to measure precision.



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
 Lab Order: N008896
 Project: Maryland Square, 085.42620.0001
 Lab ID: N008896-001

Client Sample ID: MW-34
 Collection Date: 11/8/2012 1:09:00 PM
 Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 07:13 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 07:13 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 07:13 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 07:13 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 07:13 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 07:13 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 07:13 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 07:13 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 07:13 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 07:13 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 07:13 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 07:13 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 07:13 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 07:13 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 07:13 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 07:13 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 07:13 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 07:13 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 07:13 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 07:13 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 07:13 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 07:13 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 07:13 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 07:13 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 07:13 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 07:13 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 07:13 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 07:13 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 07:13 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 07:13 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 07:13 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 07:13 PM
Chloroform	1.8 0.048	0.50	µg/L 1 11/17/2012 07:13 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 07:13 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 07:13 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 07:13 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-001

Client Sample ID: MW-34
Collection Date: 11/8/2012 1:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 07:13 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 07:13 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 07:13 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 07:13 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 07:13 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 07:13 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 07:13 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 07:13 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 07:13 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 07:13 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 07:13 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 07:13 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 07:13 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 07:13 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 07:13 PM
Tetrachloroethene	550 2.3	10	µg/L 20 11/18/2012 01:18 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 07:13 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 07:13 PM
Trichloroethene	1.1 0.075	0.50	µg/L 1 11/17/2012 07:13 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 07:13 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 07:13 PM
Surr: 1,2-Dichloroethane-d4	106 0	56-120	%REC 1 11/17/2012 07:13 PM
Surr: 1,2-Dichloroethane-d4	102 0	56-120	%REC 20 11/18/2012 01:18 PM
Surr: 4-Bromofluorobenzene	94.9 0	80-120	%REC 20 11/18/2012 01:18 PM
Surr: 4-Bromofluorobenzene	98.4 0	80-120	%REC 1 11/17/2012 07:13 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/17/2012 07:13 PM
Surr: Dibromofluoromethane	106 0	72-120	%REC 20 11/18/2012 01:18 PM
Surr: Toluene-d8	101 0	80-123	%REC 20 11/18/2012 01:18 PM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/17/2012 07:13 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Laboratories, Inc.

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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-002

Client Sample ID: MW-34 Duplicate
Collection Date: 11/8/2012 1:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 07:42 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 07:42 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 07:42 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 07:42 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 07:42 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 07:42 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 07:42 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 07:42 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 07:42 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 07:42 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 07:42 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 07:42 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 07:42 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 07:42 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 07:42 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 07:42 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 07:42 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 07:42 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 07:42 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 07:42 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 07:42 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 07:42 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 07:42 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 07:42 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 07:42 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 07:42 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 07:42 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 07:42 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 07:42 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 07:42 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 07:42 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 07:42 PM
Chloroform	1.8 0.048	0.50	µg/L 1 11/17/2012 07:42 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 07:42 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 07:42 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 07:42 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-002

Client Sample ID: MW-34 Duplicate
Collection Date: 11/8/2012 1:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 07:42 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 07:42 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 07:42 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 07:42 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 07:42 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 07:42 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 07:42 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 07:42 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 07:42 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 07:42 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 07:42 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 07:42 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 07:42 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 07:42 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 07:42 PM
Tetrachloroethene	580 2.3	10	µg/L 20 11/18/2012 01:48 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 07:42 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 07:42 PM
Trichloroethene	1.1 0.075	0.50	µg/L 1 11/17/2012 07:42 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 07:42 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 07:42 PM
Surr: 1,2-Dichloroethane-d4	105 0	56-120	%REC 1 11/17/2012 07:42 PM
Surr: 1,2-Dichloroethane-d4	104 0	56-120	%REC 20 11/18/2012 01:48 PM
Surr: 4-Bromofluorobenzene	96.6 0	80-120	%REC 20 11/18/2012 01:48 PM
Surr: 4-Bromofluorobenzene	98.3 0	80-120	%REC 1 11/17/2012 07:42 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/17/2012 07:42 PM
Surr: Dibromofluoromethane	106 0	72-120	%REC 20 11/18/2012 01:48 PM
Surr: Toluene-d8	101 0	80-123	%REC 20 11/18/2012 01:48 PM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/17/2012 07:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-003

Client Sample ID: MW-35
Collection Date: 11/8/2012 12:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 03:59 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 03:59 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 03:59 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 03:59 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 03:59 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 03:59 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 03:59 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 03:59 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 03:59 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 03:59 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 03:59 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 03:59 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 03:59 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 03:59 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 03:59 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 03:59 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 03:59 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 03:59 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 03:59 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 03:59 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 03:59 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 03:59 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 03:59 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 03:59 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 03:59 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 03:59 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 03:59 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 03:59 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 03:59 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 03:59 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 03:59 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 03:59 PM
Chloroform	2.3 0.048	0.50	µg/L 1 11/16/2012 03:59 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 03:59 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 03:59 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 03:59 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-003

Client Sample ID: MW-35
Collection Date: 11/8/2012 12:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 03:59 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 03:59 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 03:59 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 03:59 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 03:59 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 03:59 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 03:59 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 03:59 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 03:59 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 03:59 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 03:59 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 03:59 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 03:59 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 03:59 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 03:59 PM
Tetrachloroethene	480 1.2	5.0	µg/L 10 11/17/2012 01:53 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 03:59 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 03:59 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 03:59 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 03:59 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 03:59 PM
Surr: 1,2-Dichloroethane-d4	109 0	56-120	%REC 1 11/16/2012 03:59 PM
Surr: 1,2-Dichloroethane-d4	104 0	56-120	%REC 10 11/17/2012 01:53 PM
Surr: 4-Bromofluorobenzene	96.6 0	80-120	%REC 10 11/17/2012 01:53 PM
Surr: 4-Bromofluorobenzene	98.4 0	80-120	%REC 1 11/16/2012 03:59 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/16/2012 03:59 PM
Surr: Dibromofluoromethane	106 0	72-120	%REC 10 11/17/2012 01:53 PM
Surr: Toluene-d8	102 0	80-123	%REC 10 11/17/2012 01:53 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 03:59 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-004

Client Sample ID: MW-36
Collection Date: 11/8/2012 11:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 02:49 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 02:49 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 02:49 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 02:49 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 02:49 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 02:49 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 02:49 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 02:49 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 02:49 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 02:49 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 02:49 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 02:49 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 02:49 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 02:49 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 02:49 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 02:49 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 02:49 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 02:49 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 02:49 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 02:49 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 02:49 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 02:49 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 02:49 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 02:49 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 02:49 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 02:49 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 02:49 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 02:49 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 02:49 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 02:49 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 02:49 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 02:49 PM
Chloroform	1.7 0.048	0.50	µg/L 1 11/16/2012 02:49 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 02:49 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 02:49 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 02:49 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-004

Client Sample ID: MW-36
Collection Date: 11/8/2012 11:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 02:49 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 02:49 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 02:49 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 02:49 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 02:49 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 02:49 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 02:49 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 02:49 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 02:49 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 02:49 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 02:49 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 02:49 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 02:49 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 02:49 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 02:49 PM
Tetrachloroethene	150 0.59	2.5	µg/L 5 11/17/2012 02:22 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 02:49 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 02:49 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 02:49 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 02:49 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 02:49 PM
Surr: 1,2-Dichloroethane-d4	104 0	56-120	%REC 5 11/17/2012 02:22 PM
Surr: 1,2-Dichloroethane-d4	111 0	56-120	%REC 1 11/16/2012 02:49 PM
Surr: 4-Bromofluorobenzene	99.7 0	80-120	%REC 1 11/16/2012 02:49 PM
Surr: 4-Bromofluorobenzene	96.3 0	80-120	%REC 5 11/17/2012 02:22 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/16/2012 02:49 PM
Surr: Dibromofluoromethane	107 0	72-120	%REC 5 11/17/2012 02:22 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 02:49 PM
Surr: Toluene-d8	101 0	80-123	%REC 5 11/17/2012 02:22 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-005

Client Sample ID: MW-37
Collection Date: 11/8/2012 10:09:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 01:22 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 01:22 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 01:22 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 01:22 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 01:22 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 01:22 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 01:22 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 01:22 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 01:22 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 01:22 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 01:22 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 01:22 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 01:22 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 01:22 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 01:22 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 01:22 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 01:22 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 01:22 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 01:22 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 01:22 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 01:22 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 01:22 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 01:22 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 01:22 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 01:22 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 01:22 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 01:22 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 01:22 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 01:22 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 01:22 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 01:22 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 01:22 PM
Chloroform	6.0 0.048	0.50	µg/L 1 11/16/2012 01:22 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 01:22 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 01:22 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 01:22 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-005

Client Sample ID: MW-37
Collection Date: 11/8/2012 10:09:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 01:22 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 01:22 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 01:22 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 01:22 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 01:22 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 01:22 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 01:22 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 01:22 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 01:22 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 01:22 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 01:22 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 01:22 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 01:22 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 01:22 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 01:22 PM
Tetrachloroethene	31 0.12	0.50	µg/L 1 11/16/2012 01:22 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 01:22 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 01:22 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 01:22 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 01:22 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 01:22 PM
Surr: 1,2-Dichloroethane-d4	113 0	56-120	%REC 1 11/16/2012 01:22 PM
Surr: 4-Bromofluorobenzene	97.0 0	80-120	%REC 1 11/16/2012 01:22 PM
Surr: Dibromofluoromethane	110 0	72-120	%REC 1 11/16/2012 01:22 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 01:22 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
 Lab Order: N008896
 Project: Maryland Square, 085.42620.0001
 Lab ID: N008896-006

Client Sample ID: MW-38
 Collection Date: 11/8/2012 9:02:00 AM
 Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 12:53 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 12:53 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 12:53 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 12:53 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 12:53 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 12:53 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 12:53 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 12:53 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 12:53 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 12:53 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 12:53 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 12:53 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 12:53 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 12:53 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 12:53 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 12:53 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 12:53 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 12:53 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 12:53 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 12:53 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 12:53 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 12:53 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 12:53 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 12:53 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 12:53 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 12:53 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 12:53 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 12:53 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 12:53 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 12:53 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 12:53 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 12:53 PM
Chloroform	3.0 0.048	0.50	µg/L 1 11/16/2012 12:53 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 12:53 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 12:53 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 12:53 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-006

Client Sample ID: MW-38
Collection Date: 11/8/2012 9:02:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 12:53 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 12:53 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 12:53 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 12:53 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 12:53 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 12:53 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 12:53 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 12:53 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 12:53 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 12:53 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 12:53 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 12:53 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 12:53 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 12:53 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 12:53 PM
Tetrachloroethene	5.9 0.12	0.50	µg/L 1 11/16/2012 12:53 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 12:53 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 12:53 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 12:53 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 12:53 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 12:53 PM
Surr: 1,2-Dichloroethane-d4	109 0	56-120	%REC 1 11/16/2012 12:53 PM
Surr: 4-Bromofluorobenzene	98.8 0	80-120	%REC 1 11/16/2012 12:53 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/16/2012 12:53 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 12:53 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-007

Client Sample ID: MW-39
Collection Date: 11/9/2012 7:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 03:30 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 03:30 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 03:30 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 03:30 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 03:30 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 03:30 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 03:30 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 03:30 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 03:30 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 03:30 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 03:30 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 03:30 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 03:30 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 03:30 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 03:30 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 03:30 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 03:30 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 03:30 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 03:30 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 03:30 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 03:30 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 03:30 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 03:30 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 03:30 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 03:30 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 03:30 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 03:30 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 03:30 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 03:30 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 03:30 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 03:30 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 03:30 PM
Chloroform	1.4 0.048	0.50	µg/L 1 11/16/2012 03:30 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 03:30 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 03:30 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 03:30 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-007

Client Sample ID: MW-39
Collection Date: 11/9/2012 7:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 03:30 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 03:30 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 03:30 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 03:30 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 03:30 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 03:30 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 03:30 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 03:30 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 03:30 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 03:30 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 03:30 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 03:30 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 03:30 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 03:30 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 03:30 PM
Tetrachloroethene	270 1.2	5.0	µg/L 10 11/17/2012 02:51 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 03:30 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 03:30 PM
Trichloroethene	0.91 0.075	0.50	µg/L 1 11/16/2012 03:30 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 03:30 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 03:30 PM
Surr: 1,2-Dichloroethane-d4	103 0	56-120	%REC 10 11/17/2012 02:51 PM
Surr: 1,2-Dichloroethane-d4	105 0	56-120	%REC 1 11/16/2012 03:30 PM
Surr: 4-Bromofluorobenzene	97.1 0	80-120	%REC 1 11/16/2012 03:30 PM
Surr: 4-Bromofluorobenzene	96.0 0	80-120	%REC 10 11/17/2012 02:51 PM
Surr: Dibromofluoromethane	107 0	72-120	%REC 1 11/16/2012 03:30 PM
Surr: Dibromofluoromethane	106 0	72-120	%REC 10 11/17/2012 02:51 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 03:30 PM
Surr: Toluene-d8	103 0	80-123	%REC 10 11/17/2012 02:51 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-008

Client Sample ID: MW-39 Duplicate
Collection Date: 11/9/2012 7:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 04:29 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 04:29 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 04:29 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 04:29 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 04:29 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 04:29 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 04:29 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 04:29 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 04:29 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 04:29 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:29 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 04:29 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 04:29 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 04:29 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 04:29 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 04:29 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 04:29 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 04:29 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 04:29 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 04:29 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 04:29 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 04:29 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 04:29 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 04:29 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 04:29 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 04:29 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 04:29 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 04:29 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 04:29 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 04:29 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 04:29 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 04:29 PM
Chloroform	1.4 0.048	0.50	µg/L 1 11/16/2012 04:29 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 04:29 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 04:29 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 04:29 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-008

Client Sample ID: MW-39 Duplicate
Collection Date: 11/9/2012 7:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 04:29 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 04:29 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:29 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 04:29 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 04:29 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 04:29 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 04:29 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 04:29 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 04:29 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 04:29 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 04:29 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 04:29 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:29 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 04:29 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 04:29 PM
Tetrachloroethene	270 1.2	5.0	µg/L 10 11/17/2012 03:20 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 04:29 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 04:29 PM
Trichloroethene	0.85 0.075	0.50	µg/L 1 11/16/2012 04:29 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 04:29 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 04:29 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 1 11/16/2012 04:29 PM
Surr: 1,2-Dichloroethane-d4	103 0	56-120	%REC 10 11/17/2012 03:20 PM
Surr: 4-Bromofluorobenzene	96.3 0	80-120	%REC 10 11/17/2012 03:20 PM
Surr: 4-Bromofluorobenzene	99.2 0	80-120	%REC 1 11/16/2012 04:29 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/16/2012 04:29 PM
Surr: Dibromofluoromethane	106 0	72-120	%REC 10 11/17/2012 03:20 PM
Surr: Toluene-d8	101 0	80-123	%REC 10 11/17/2012 03:20 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 04:29 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-009

Client Sample ID: MW-40CMT-30
Collection Date: 11/9/2012 9:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 06:44 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 06:44 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 06:44 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 06:44 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 06:44 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 06:44 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 06:44 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 06:44 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 06:44 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 06:44 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 06:44 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 06:44 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 06:44 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 06:44 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 06:44 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 06:44 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 06:44 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 06:44 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 06:44 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 06:44 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 06:44 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 06:44 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 06:44 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 06:44 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 06:44 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 06:44 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 06:44 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 06:44 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 06:44 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 06:44 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 06:44 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 06:44 PM
Chloroform	ND 0.048	0.50	µg/L 1 11/17/2012 06:44 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 06:44 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 06:44 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 06:44 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-009

Client Sample ID: MW-40CMT-30
Collection Date: 11/9/2012 9:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 06:44 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 06:44 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 06:44 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 06:44 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 06:44 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 06:44 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 06:44 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 06:44 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 06:44 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 06:44 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 06:44 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 06:44 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 06:44 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 06:44 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 06:44 PM
Tetrachloroethene	340 1.2	5.0	µg/L 10 11/16/2012 05:27 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 06:44 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 06:44 PM
Trichloroethene	1.1 0.075	0.50	µg/L 1 11/17/2012 06:44 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 06:44 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 06:44 PM
Surr: 1,2-Dichloroethane-d4	111 0	56-120	%REC 10 11/16/2012 05:27 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 1 11/17/2012 06:44 PM
Surr: 4-Bromofluorobenzene	97.7 0	80-120	%REC 1 11/17/2012 06:44 PM
Surr: 4-Bromofluorobenzene	98.5 0	80-120	%REC 10 11/16/2012 05:27 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/17/2012 06:44 PM
Surr: Dibromofluoromethane	112 0	72-120	%REC 10 11/16/2012 05:27 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/17/2012 06:44 PM
Surr: Toluene-d8	103 0	80-123	%REC 10 11/16/2012 05:27 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-010

Client Sample ID: MW-40CMT-35
Collection Date: 11/9/2012 10:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 04:48 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 04:48 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 04:48 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 04:48 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 04:48 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 04:48 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 04:48 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 04:48 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 04:48 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 04:48 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 04:48 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 04:48 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 04:48 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 04:48 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 04:48 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 04:48 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 04:48 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 04:48 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 04:48 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 04:48 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 04:48 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 04:48 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 04:48 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 04:48 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 04:48 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 04:48 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 04:48 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 04:48 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 04:48 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 04:48 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 04:48 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 04:48 PM
Chloroform	0.81 0.048	0.50	µg/L 1 11/17/2012 04:48 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 04:48 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 04:48 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 04:48 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Laboratories, Inc.

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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-010

Client Sample ID: MW-40CMT-35
Collection Date: 11/9/2012 10:54:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 04:48 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 04:48 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 04:48 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 04:48 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 04:48 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 04:48 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 04:48 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 04:48 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 04:48 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 04:48 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 04:48 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 04:48 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 04:48 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 04:48 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 04:48 PM
Tetrachloroethene	260 1.2	5.0	µg/L 10 11/16/2012 05:56 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 04:48 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 04:48 PM
Trichloroethene	6.6 0.075	0.50	µg/L 1 11/17/2012 04:48 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 04:48 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 04:48 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 10 11/16/2012 05:56 PM
Surr: 1,2-Dichloroethane-d4	102 0	56-120	%REC 1 11/17/2012 04:48 PM
Surr: 4-Bromofluorobenzene	99.8 0	80-120	%REC 1 11/17/2012 04:48 PM
Surr: 4-Bromofluorobenzene	97.9 0	80-120	%REC 10 11/16/2012 05:56 PM
Surr: Dibromofluoromethane	107 0	72-120	%REC 1 11/17/2012 04:48 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 10 11/16/2012 05:56 PM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/17/2012 04:48 PM
Surr: Toluene-d8	102 0	80-123	%REC 10 11/16/2012 05:56 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-011

Client Sample ID: MW-40CMT-40
Collection Date: 11/9/2012 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 06:15 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 06:15 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 06:15 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 06:15 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 06:15 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 06:15 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 06:15 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 06:15 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 06:15 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 06:15 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 06:15 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 06:15 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 06:15 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 06:15 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 06:15 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 06:15 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 06:15 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 06:15 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 06:15 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 06:15 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 06:15 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 06:15 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 06:15 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 06:15 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 06:15 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 06:15 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 06:15 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 06:15 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 06:15 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 06:15 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 06:15 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 06:15 PM
Chloroform	1.3 0.048	0.50	µg/L 1 11/17/2012 06:15 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 06:15 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 06:15 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 06:15 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-011

Client Sample ID: MW-40CMT-40
Collection Date: 11/9/2012 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 06:15 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 06:15 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 06:15 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 06:15 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 06:15 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 06:15 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 06:15 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 06:15 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 06:15 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 06:15 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 06:15 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 06:15 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 06:15 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 06:15 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 06:15 PM
Tetrachloroethene	320 1.2	5.0	µg/L 10 11/16/2012 06:26 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 06:15 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 06:15 PM
Trichloroethene	1.7 0.075	0.50	µg/L 1 11/17/2012 06:15 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 06:15 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 06:15 PM
Surr: 1,2-Dichloroethane-d4	108 0	56-120	%REC 10 11/16/2012 06:26 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 1 11/17/2012 06:15 PM
Surr: 4-Bromofluorobenzene	98.6 0	80-120	%REC 1 11/17/2012 06:15 PM
Surr: 4-Bromofluorobenzene	97.1 0	80-120	%REC 10 11/16/2012 06:26 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/17/2012 06:15 PM
Surr: Dibromofluoromethane	110 0	72-120	%REC 10 11/16/2012 06:26 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/17/2012 06:15 PM
Surr: Toluene-d8	103 0	80-123	%REC 10 11/16/2012 06:26 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.**ANALYTICAL RESULTS**

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-012

Client Sample ID: MW-40CMT-45
Collection Date: 11/9/2012 12:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 05:17 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 05:17 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 05:17 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 05:17 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 05:17 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 05:17 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 05:17 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 05:17 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 05:17 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 05:17 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 05:17 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 05:17 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 05:17 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 05:17 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 05:17 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 05:17 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 05:17 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 05:17 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 05:17 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 05:17 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 05:17 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 05:17 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 05:17 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 05:17 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 05:17 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 05:17 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 05:17 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 05:17 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 05:17 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 05:17 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 05:17 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 05:17 PM
Chloroform	1.2 0.048	0.50	µg/L 1 11/17/2012 05:17 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 05:17 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 05:17 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 05:17 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-012

Client Sample ID: MW-40CMT-45
Collection Date: 11/9/2012 12:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 05:17 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 05:17 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 05:17 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 05:17 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 05:17 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 05:17 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 05:17 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 05:17 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 05:17 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 05:17 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 05:17 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 05:17 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 05:17 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 05:17 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 05:17 PM
Tetrachloroethene	280 1.2	5.0	µg/L 10 11/16/2012 06:55 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 05:17 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 05:17 PM
Trichloroethene	1.9 0.075	0.50	µg/L 1 11/17/2012 05:17 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 05:17 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 05:17 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 10 11/16/2012 06:55 PM
Surr: 1,2-Dichloroethane-d4	106 0	56-120	%REC 1 11/17/2012 05:17 PM
Surr: 4-Bromofluorobenzene	98.1 0	80-120	%REC 1 11/17/2012 05:17 PM
Surr: 4-Bromofluorobenzene	97.8 0	80-120	%REC 10 11/16/2012 06:55 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/17/2012 05:17 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 10 11/16/2012 06:55 PM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/17/2012 05:17 PM
Surr: Toluene-d8	102 0	80-123	%REC 10 11/16/2012 06:55 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-013

Client Sample ID: MW-40CMT-50
Collection Date: 11/9/2012 1:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/17/2012 05:46 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/17/2012 05:46 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/17/2012 05:46 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/17/2012 05:46 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/17/2012 05:46 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/17/2012 05:46 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/17/2012 05:46 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/17/2012 05:46 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/17/2012 05:46 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/17/2012 05:46 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 05:46 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/17/2012 05:46 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/17/2012 05:46 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/17/2012 05:46 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/17/2012 05:46 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/17/2012 05:46 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/17/2012 05:46 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/17/2012 05:46 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/17/2012 05:46 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/17/2012 05:46 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/17/2012 05:46 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/17/2012 05:46 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/17/2012 05:46 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/17/2012 05:46 PM
Benzene	ND 0.048	0.50	µg/L 1 11/17/2012 05:46 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/17/2012 05:46 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/17/2012 05:46 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/17/2012 05:46 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/17/2012 05:46 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/17/2012 05:46 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/17/2012 05:46 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/17/2012 05:46 PM
Chloroform	1.1 0.048	0.50	µg/L 1 11/17/2012 05:46 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/17/2012 05:46 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/17/2012 05:46 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/17/2012 05:46 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-013

Client Sample ID: MW-40CMT-50
Collection Date: 11/9/2012 1:56:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121117A	QC Batch: P12VW133	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/17/2012 05:46 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/17/2012 05:46 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 05:46 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/17/2012 05:46 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/17/2012 05:46 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/17/2012 05:46 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/17/2012 05:46 PM
MTBE	ND 0.098	0.50	µg/L 1 11/17/2012 05:46 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/17/2012 05:46 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/17/2012 05:46 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/17/2012 05:46 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/17/2012 05:46 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/17/2012 05:46 PM
Styrene	ND 0.040	0.50	µg/L 1 11/17/2012 05:46 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/17/2012 05:46 PM
Tetrachloroethene	300 1.2	5.0	µg/L 10 11/16/2012 07:24 PM
Toluene	ND 0.034	0.50	µg/L 1 11/17/2012 05:46 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/17/2012 05:46 PM
Trichloroethene	2.5 0.075	0.50	µg/L 1 11/17/2012 05:46 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/17/2012 05:46 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/17/2012 05:46 PM
Surr: 1,2-Dichloroethane-d4	109 0	56-120	%REC 10 11/16/2012 07:24 PM
Surr: 1,2-Dichloroethane-d4	105 0	56-120	%REC 1 11/17/2012 05:46 PM
Surr: 4-Bromofluorobenzene	98.5 0	80-120	%REC 1 11/17/2012 05:46 PM
Surr: 4-Bromofluorobenzene	96.9 0	80-120	%REC 10 11/16/2012 07:24 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/17/2012 05:46 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 10 11/16/2012 07:24 PM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/17/2012 05:46 PM
Surr: Toluene-d8	103 0	80-123	%REC 10 11/16/2012 07:24 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-014

Client Sample ID: MW-40CMT-55
Collection Date: 11/9/2012 2:47:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121118A	QC Batch: P12VW134	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/18/2012 02:17 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/18/2012 02:17 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/18/2012 02:17 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/18/2012 02:17 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/18/2012 02:17 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/18/2012 02:17 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/18/2012 02:17 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/18/2012 02:17 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/18/2012 02:17 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/18/2012 02:17 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/18/2012 02:17 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/18/2012 02:17 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/18/2012 02:17 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/18/2012 02:17 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/18/2012 02:17 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/18/2012 02:17 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/18/2012 02:17 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/18/2012 02:17 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/18/2012 02:17 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/18/2012 02:17 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/18/2012 02:17 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/18/2012 02:17 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/18/2012 02:17 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/18/2012 02:17 PM
Benzene	ND 0.048	0.50	µg/L 1 11/18/2012 02:17 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/18/2012 02:17 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/18/2012 02:17 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/18/2012 02:17 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/18/2012 02:17 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/18/2012 02:17 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/18/2012 02:17 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/18/2012 02:17 PM
Chloroform	1.8 0.048	0.50	µg/L 1 11/18/2012 02:17 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/18/2012 02:17 PM
cis-1,2-Dichloroethene	1.7 0.057	0.50	µg/L 1 11/18/2012 02:17 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/18/2012 02:17 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-014

Client Sample ID: MW-40CMT-55
Collection Date: 11/9/2012 2:47:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121118A	QC Batch: P12VW134	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/18/2012 02:17 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/18/2012 02:17 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/18/2012 02:17 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/18/2012 02:17 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/18/2012 02:17 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/18/2012 02:17 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/18/2012 02:17 PM
MTBE	ND 0.098	0.50	µg/L 1 11/18/2012 02:17 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/18/2012 02:17 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/18/2012 02:17 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/18/2012 02:17 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/18/2012 02:17 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/18/2012 02:17 PM
Styrene	ND 0.040	0.50	µg/L 1 11/18/2012 02:17 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/18/2012 02:17 PM
Tetrachloroethene	930 1.2	5.0	µg/L 10 11/16/2012 07:53 PM
Toluene	ND 0.034	0.50	µg/L 1 11/18/2012 02:17 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/18/2012 02:17 PM
Trichloroethene	4.0 0.075	0.50	µg/L 1 11/18/2012 02:17 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/18/2012 02:17 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/18/2012 02:17 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 10 11/16/2012 07:53 PM
Surr: 1,2-Dichloroethane-d4	105 0	56-120	%REC 1 11/18/2012 02:17 PM
Surr: 4-Bromofluorobenzene	97.4 0	80-120	%REC 1 11/18/2012 02:17 PM
Surr: 4-Bromofluorobenzene	98.0 0	80-120	%REC 10 11/16/2012 07:53 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/18/2012 02:17 PM
Surr: Dibromofluoromethane	107 0	72-120	%REC 10 11/16/2012 07:53 PM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/18/2012 02:17 PM
Surr: Toluene-d8	103 0	80-123	%REC 10 11/16/2012 07:53 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-015

Client Sample ID: MW-40CMT-60
Collection Date: 11/9/2012 3:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121118A	QC Batch: P12VW134	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/18/2012 02:46 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/18/2012 02:46 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/18/2012 02:46 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/18/2012 02:46 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/18/2012 02:46 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/18/2012 02:46 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/18/2012 02:46 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/18/2012 02:46 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/18/2012 02:46 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/18/2012 02:46 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/18/2012 02:46 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/18/2012 02:46 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/18/2012 02:46 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/18/2012 02:46 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/18/2012 02:46 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/18/2012 02:46 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/18/2012 02:46 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/18/2012 02:46 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/18/2012 02:46 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/18/2012 02:46 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/18/2012 02:46 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/18/2012 02:46 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/18/2012 02:46 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/18/2012 02:46 PM
Benzene	ND 0.048	0.50	µg/L 1 11/18/2012 02:46 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/18/2012 02:46 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/18/2012 02:46 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/18/2012 02:46 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/18/2012 02:46 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/18/2012 02:46 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/18/2012 02:46 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/18/2012 02:46 PM
Chloroform	2.6 0.048	0.50	µg/L 1 11/18/2012 02:46 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/18/2012 02:46 PM
cis-1,2-Dichloroethene	6.3 0.057	0.50	µg/L 1 11/18/2012 02:46 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/18/2012 02:46 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-015

Client Sample ID: MW-40CMT-60
Collection Date: 11/9/2012 3:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121118A	QC Batch: P12VW134	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/18/2012 02:46 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/18/2012 02:46 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/18/2012 02:46 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/18/2012 02:46 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/18/2012 02:46 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/18/2012 02:46 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/18/2012 02:46 PM
MTBE	ND 0.098	0.50	µg/L 1 11/18/2012 02:46 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/18/2012 02:46 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/18/2012 02:46 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/18/2012 02:46 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/18/2012 02:46 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/18/2012 02:46 PM
Styrene	ND 0.040	0.50	µg/L 1 11/18/2012 02:46 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/18/2012 02:46 PM
Tetrachloroethene	1400 2.3	10	µg/L 20 11/17/2012 04:18 PM
Toluene	ND 0.034	0.50	µg/L 1 11/18/2012 02:46 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/18/2012 02:46 PM
Trichloroethene	11 0.075	0.50	µg/L 1 11/18/2012 02:46 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/18/2012 02:46 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/18/2012 02:46 PM
Surr: 1,2-Dichloroethane-d4	105 0	56-120	%REC 20 11/17/2012 04:18 PM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 1 11/18/2012 02:46 PM
Surr: 4-Bromofluorobenzene	99.2 0	80-120	%REC 1 11/18/2012 02:46 PM
Surr: 4-Bromofluorobenzene	98.1 0	80-120	%REC 20 11/17/2012 04:18 PM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/18/2012 02:46 PM
Surr: Dibromofluoromethane	107 0	72-120	%REC 20 11/17/2012 04:18 PM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/18/2012 02:46 PM
Surr: Toluene-d8	101 0	80-123	%REC 20 11/17/2012 04:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-016

Client Sample ID: Trip Blank
Collection Date: 11/8/2012 7:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121115A	QC Batch: P12VW131	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 04:26 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 04:26 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 04:26 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 04:26 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 04:26 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 04:26 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 04:26 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 04:26 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 04:26 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 04:26 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:26 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 04:26 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 04:26 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 04:26 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 04:26 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 04:26 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 04:26 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 04:26 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 04:26 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 04:26 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 04:26 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 04:26 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 04:26 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 04:26 AM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 04:26 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 04:26 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 04:26 AM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 04:26 AM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 04:26 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 04:26 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 04:26 AM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 04:26 AM
Chloroform	ND 0.048	0.50	µg/L 1 11/16/2012 04:26 AM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 04:26 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 04:26 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 04:26 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-016

Client Sample ID: Trip Blank
Collection Date: 11/8/2012 7:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121115A	QC Batch: P12VW131	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 04:26 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 04:26 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:26 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 04:26 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 04:26 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 04:26 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 04:26 AM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 04:26 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 04:26 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 04:26 AM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 04:26 AM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 04:26 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:26 AM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 04:26 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 04:26 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 11/16/2012 04:26 AM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 04:26 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 04:26 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 04:26 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 04:26 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 04:26 AM
Surr: 1,2-Dichloroethane-d4	107 0	56-120	%REC 1 11/16/2012 04:26 AM
Surr: 4-Bromofluorobenzene	99.4 0	80-120	%REC 1 11/16/2012 04:26 AM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/16/2012 04:26 AM
Surr: Toluene-d8	102 0	80-123	%REC 1 11/16/2012 04:26 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-017

Client Sample ID: Field Blank
Collection Date: 11/8/2012 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121115A	QC Batch: P12VW131	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 04:55 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 04:55 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 04:55 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 04:55 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 04:55 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 04:55 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 04:55 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 04:55 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 04:55 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 04:55 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:55 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 04:55 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 04:55 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 04:55 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 04:55 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 04:55 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 04:55 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 04:55 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 04:55 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 04:55 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 04:55 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 04:55 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 04:55 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 04:55 AM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 04:55 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 04:55 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 04:55 AM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 04:55 AM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 04:55 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 04:55 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 04:55 AM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 04:55 AM
Chloroform	ND 0.048	0.50	µg/L 1 11/16/2012 04:55 AM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 04:55 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 04:55 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 04:55 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.**ANALYTICAL RESULTS**

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-017

Client Sample ID: Field Blank
Collection Date: 11/8/2012 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID: MS5_121115A	QC Batch: P12VW131	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 04:55 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 04:55 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:55 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 04:55 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 04:55 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 04:55 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 04:55 AM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 04:55 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 04:55 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 04:55 AM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 04:55 AM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 04:55 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 04:55 AM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 04:55 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 04:55 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 11/16/2012 04:55 AM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 04:55 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 04:55 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 04:55 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 04:55 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 04:55 AM
Surr: 1,2-Dichloroethane-d4	108 0	56-120	%REC 1 11/16/2012 04:55 AM
Surr: 4-Bromofluorobenzene	98.8 0	80-120	%REC 1 11/16/2012 04:55 AM
Surr: Dibromofluoromethane	111 0	72-120	%REC 1 11/16/2012 04:55 AM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 04:55 AM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-018

Client Sample ID: Equipment Blank
Collection Date: 11/8/2012 10:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 10:57 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 10:57 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 10:57 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 10:57 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 10:57 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 10:57 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 10:57 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 10:57 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 10:57 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 10:57 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 10:57 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 10:57 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 10:57 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 10:57 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 10:57 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 10:57 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 10:57 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 10:57 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 10:57 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 10:57 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 10:57 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 10:57 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 10:57 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 10:57 AM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 10:57 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 10:57 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 10:57 AM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 10:57 AM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 10:57 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 10:57 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 10:57 AM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 10:57 AM
Chloroform	ND 0.048	0.50	µg/L 1 11/16/2012 10:57 AM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 10:57 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 10:57 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 10:57 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-018

Client Sample ID: Equipment Blank
Collection Date: 11/8/2012 10:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 10:57 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 10:57 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 10:57 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 10:57 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 10:57 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 10:57 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 10:57 AM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 10:57 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 10:57 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 10:57 AM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 10:57 AM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 10:57 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 10:57 AM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 10:57 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 10:57 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 11/16/2012 10:57 AM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 10:57 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 10:57 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 10:57 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 10:57 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 10:57 AM
Surr: 1,2-Dichloroethane-d4	104 0	56-120	%REC 1 11/16/2012 10:57 AM
Surr: 4-Bromofluorobenzene	98.8 0	80-120	%REC 1 11/16/2012 10:57 AM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/16/2012 10:57 AM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 10:57 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-019

Client Sample ID: Trip Blank
Collection Date: 11/9/2012 6:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 11:26 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 11:26 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 11:26 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 11:26 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 11:26 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 11:26 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 11:26 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 11:26 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 11:26 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 11:26 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 11:26 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 11:26 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 11:26 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 11:26 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 11:26 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 11:26 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 11:26 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 11:26 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 11:26 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 11:26 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 11:26 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 11:26 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 11:26 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 11:26 AM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 11:26 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 11:26 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 11:26 AM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 11:26 AM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 11:26 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 11:26 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 11:26 AM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 11:26 AM
Chloroform	ND 0.048	0.50	µg/L 1 11/16/2012 11:26 AM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 11:26 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 11:26 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 11:26 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**Advanced Technology
Laboratories, Inc.**

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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-019

Client Sample ID: Trip Blank
Collection Date: 11/9/2012 6:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 11:26 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 11:26 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 11:26 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 11:26 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 11:26 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 11:26 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 11:26 AM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 11:26 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 11:26 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 11:26 AM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 11:26 AM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 11:26 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 11:26 AM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 11:26 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 11:26 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 11/16/2012 11:26 AM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 11:26 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 11:26 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 11:26 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 11:26 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 11:26 AM
Surr: 1,2-Dichloroethane-d4	104 0	56-120	%REC 1 11/16/2012 11:26 AM
Surr: 4-Bromofluorobenzene	98.4 0	80-120	%REC 1 11/16/2012 11:26 AM
Surr: Dibromofluoromethane	108 0	72-120	%REC 1 11/16/2012 11:26 AM
Surr: Toluene-d8	103 0	80-123	%REC 1 11/16/2012 11:26 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
 Lab Order: N008896
 Project: Maryland Square, 085.42620.0001
 Lab ID: N008896-020

Client Sample ID: Field Blank
 Collection Date: 11/9/2012 1:04:00 PM
 Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 11:55 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 11:55 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 11:55 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 11:55 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 11:55 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 11:55 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 11:55 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 11:55 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 11:55 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 11:55 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 11:55 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 11:55 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 11:55 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 11:55 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 11:55 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 11:55 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 11:55 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 11:55 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 11:55 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 11:55 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 11:55 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 11:55 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 11:55 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 11:55 AM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 11:55 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 11:55 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 11:55 AM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 11:55 AM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 11:55 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 11:55 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 11:55 AM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 11:55 AM
Chloroform	ND 0.048	0.50	µg/L 1 11/16/2012 11:55 AM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 11:55 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 11:55 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 11:55 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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Laboratories, Inc.

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Advanced Technology Laboratories, Inc.**ANALYTICAL RESULTS**

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-020

Client Sample ID: Field Blank
Collection Date: 11/9/2012 1:04:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11 0.50	µg/L	1 11/16/2012 11:55 AM
Dichlorodifluoromethane	ND 0.054 0.50	µg/L	1 11/16/2012 11:55 AM
Ethylbenzene	ND 0.036 0.50	µg/L	1 11/16/2012 11:55 AM
Hexachlorobutadiene	ND 0.070 0.50	µg/L	1 11/16/2012 11:55 AM
Isopropylbenzene	ND 0.073 0.50	µg/L	1 11/16/2012 11:55 AM
m,p-Xylene	ND 0.14 1.0	µg/L	1 11/16/2012 11:55 AM
Methylene chloride	ND 0.28 2.0	µg/L	1 11/16/2012 11:55 AM
MTBE	ND 0.098 0.50	µg/L	1 11/16/2012 11:55 AM
n-Butylbenzene	ND 0.076 0.50	µg/L	1 11/16/2012 11:55 AM
n-Propylbenzene	ND 0.049 0.50	µg/L	1 11/16/2012 11:55 AM
Naphthalene	ND 0.10 0.50	µg/L	1 11/16/2012 11:55 AM
o-Xylene	ND 0.042 0.50	µg/L	1 11/16/2012 11:55 AM
sec-Butylbenzene	ND 0.036 0.50	µg/L	1 11/16/2012 11:55 AM
Styrene	ND 0.040 0.50	µg/L	1 11/16/2012 11:55 AM
tert-Butylbenzene	ND 0.040 0.50	µg/L	1 11/16/2012 11:55 AM
Tetrachloroethene	ND 0.12 0.50	µg/L	1 11/16/2012 11:55 AM
Toluene	ND 0.034 0.50	µg/L	1 11/16/2012 11:55 AM
trans-1,2-Dichloroethene	ND 0.11 0.50	µg/L	1 11/16/2012 11:55 AM
Trichloroethene	ND 0.075 0.50	µg/L	1 11/16/2012 11:55 AM
Trichlorofluoromethane	ND 0.057 0.50	µg/L	1 11/16/2012 11:55 AM
Vinyl chloride	ND 0.082 0.50	µg/L	1 11/16/2012 11:55 AM
Surr: 1,2-Dichloroethane-d4	107 0 56-120	%REC	1 11/16/2012 11:55 AM
Surr: 4-Bromofluorobenzene	98.7 0 80-120	%REC	1 11/16/2012 11:55 AM
Surr: Dibromofluoromethane	110 0 72-120	%REC	1 11/16/2012 11:55 AM
Surr: Toluene-d8	104 0 80-123	%REC	1 11/16/2012 11:55 AM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



**Advanced Technology
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Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-021

Client Sample ID: Equipment Blank
Collection Date: 11/9/2012 12:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 11/16/2012 12:24 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 11/16/2012 12:24 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 11/16/2012 12:24 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 11/16/2012 12:24 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 11/16/2012 12:24 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 11/16/2012 12:24 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 11/16/2012 12:24 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 11/16/2012 12:24 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 11/16/2012 12:24 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 11/16/2012 12:24 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 12:24 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 11/16/2012 12:24 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 11/16/2012 12:24 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 11/16/2012 12:24 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 11/16/2012 12:24 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 11/16/2012 12:24 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 11/16/2012 12:24 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 11/16/2012 12:24 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 11/16/2012 12:24 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 11/16/2012 12:24 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 11/16/2012 12:24 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 11/16/2012 12:24 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 11/16/2012 12:24 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 11/16/2012 12:24 PM
Benzene	ND 0.048	0.50	µg/L 1 11/16/2012 12:24 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 11/16/2012 12:24 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 11/16/2012 12:24 PM
Bromoform	ND 0.18	0.50	µg/L 1 11/16/2012 12:24 PM
Bromomethane	ND 0.13	0.50	µg/L 1 11/16/2012 12:24 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 11/16/2012 12:24 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 11/16/2012 12:24 PM
Chloroethane	ND 0.17	0.50	µg/L 1 11/16/2012 12:24 PM
Chloroform	ND 0.048	0.50	µg/L 1 11/16/2012 12:24 PM
Chloromethane	ND 0.043	0.50	µg/L 1 11/16/2012 12:24 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 11/16/2012 12:24 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 11/16/2012 12:24 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.**ANALYTICAL RESULTS**

Print Date: 19-Nov-12

CLIENT: Cardno ATC
Lab Order: N008896
Project: Maryland Square, 085.42620.0001
Lab ID: N008896-021

Client Sample ID: Equipment Blank
Collection Date: 11/9/2012 12:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID: MS5_121116A	QC Batch: P12VW132	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 11/16/2012 12:24 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 11/16/2012 12:24 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 12:24 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 11/16/2012 12:24 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 11/16/2012 12:24 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 11/16/2012 12:24 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 11/16/2012 12:24 PM
MTBE	ND 0.098	0.50	µg/L 1 11/16/2012 12:24 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 11/16/2012 12:24 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 11/16/2012 12:24 PM
Naphthalene	ND 0.10	0.50	µg/L 1 11/16/2012 12:24 PM
o-Xylene	ND 0.042	0.50	µg/L 1 11/16/2012 12:24 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 11/16/2012 12:24 PM
Styrene	ND 0.040	0.50	µg/L 1 11/16/2012 12:24 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 11/16/2012 12:24 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 11/16/2012 12:24 PM
Toluene	ND 0.034	0.50	µg/L 1 11/16/2012 12:24 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 11/16/2012 12:24 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 11/16/2012 12:24 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 11/16/2012 12:24 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 11/16/2012 12:24 PM
Surr: 1,2-Dichloroethane-d4	110 0	56-120	%REC 1 11/16/2012 12:24 PM
Surr: 4-Bromofluorobenzene	98.6 0	80-120	%REC 1 11/16/2012 12:24 PM
Surr: Dibromofluoromethane	109 0	72-120	%REC 1 11/16/2012 12:24 PM
Surr: Toluene-d8	104 0	80-123	%REC 1 11/16/2012 12:24 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

Date: 19-Nov-12

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115LCS2		SampType: LCS		TestCode: 8260_WP_LL			Units: µg/L		Prep Date:		RunNo: 86349	
Client ID: LCSW		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474452		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1,2-Tetrachloroethane	19.970	0.50	20.00	0	99.8	74	122					
1,1,1-Trichloroethane	19.590	0.50	20.00	0	98.0	65	120					
1,1,2,2-Tetrachloroethane	18.650	0.50	20.00	0	93.3	80	120					
1,1,2-Trichloroethane	18.760	0.50	20.00	0	93.8	80	120					
1,1-Dichloroethane	19.790	0.50	20.00	0	99.0	80	120					
1,1-Dichloroethene	20.070	0.50	20.00	0	100	80	120					
1,1-Dichloropropene	19.220	0.50	20.00	0	96.1	80	120					
1,2,3-Trichlorobenzene	20.670	0.50	20.00	0	103	80	124					
1,2,3-Trichloropropane	18.760	0.50	20.00	0	93.8	80	120					
1,2,4-Trichlorobenzene	20.770	0.50	20.00	0	104	80	126					
1,2,4-Trimethylbenzene	21.200	0.50	20.00	0	106	80	123					
1,2-Dibromo-3-chloropropane	18.210	1.0	20.00	0	91.1	70	120					
1,2-Dibromoethane	19.080	0.50	20.00	0	95.4	80	120					
1,2-Dichlorobenzene	19.940	0.50	20.00	0	99.7	80	120					
1,2-Dichloroethane	19.210	0.50	20.00	0	96.0	80	120					
1,2-Dichloropropane	19.250	0.50	20.00	0	96.2	80	120					
1,3,5-Trimethylbenzene	20.930	0.50	20.00	0	105	80	121					
1,3-Dichlorobenzene	19.870	0.50	20.00	0	99.4	80	120					
1,3-Dichloropropane	19.030	0.50	20.00	0	95.2	80	120					
1,4-Dichlorobenzene	19.660	0.50	20.00	0	98.3	80	120					
2,2-Dichloropropane	16.540	0.50	20.00	0	82.7	54	120					
2-Chlorotoluene	20.340	0.50	20.00	0	102	80	122					
4-Chlorotoluene	20.240	0.50	20.00	0	101	80	120					
4-Isopropyltoluene	21.250	0.50	20.00	0	106	80	122					
Benzene	19.280	0.50	20.00	0	96.4	80	120					
Bromobenzene	20.270	0.50	20.00	0	101	80	120					
Bromodichloromethane	19.840	0.50	20.00	0	99.2	70	120					
Bromoform	19.350	0.50	20.00	0	96.8	66	120					
Bromomethane	24.350	0.50	20.00	0	122	48	155					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Calculations are based on raw values

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115LCS2		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86349	
Client ID: LCSW		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474452	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	19.820	0.50	20.00	0	99.1	60	120				
Chlorobenzene	19.610	0.50	20.00	0	98.0	80	120				
Chloroethane	20.070	0.50	20.00	0	100	62	147				
Chloroform	19.580	0.50	20.00	0	97.9	80	120				
Chloromethane	18.110	0.50	20.00	0	90.6	63	121				
cis-1,2-Dichloroethene	19.380	0.50	20.00	0	96.9	80	120				
Dibromochloromethane	19.620	0.50	20.00	0	98.1	67	123				
Dibromomethane	19.150	0.50	20.00	0	95.8	80	120				
Dichlorodifluoromethane	20.100	0.50	20.00	0	101	70	121				
Ethylbenzene	19.430	0.50	20.00	0	97.2	80	120				
Hexachlorobutadiene	19.410	0.50	20.00	0	97.0	80	123				
Isopropylbenzene	20.820	0.50	20.00	0	104	80	121				
m,p-Xylene	39.630	1.0	40.00	0	99.1	80	120				
Methylene chloride	19.040	2.0	20.00	0	95.2	75	120				
MTBE	19.560	0.50	20.00	0	97.8	70	120				
n-Butylbenzene	20.510	0.50	20.00	0	103	80	129				
n-Propylbenzene	20.560	0.50	20.00	0	103	80	122				
Naphthalene	21.150	0.50	20.00	0	106	73	127				
o-Xylene	20.240	0.50	20.00	0	101	80	120				
sec-Butylbenzene	20.610	0.50	20.00	0	103	80	120				
Styrene	21.060	0.50	20.00	0	105	80	120				
tert-Butylbenzene	20.900	0.50	20.00	0	104	80	120				
Tetrachloroethene	19.350	0.50	20.00	0	96.8	80	121				
Toluene	19.760	0.50	20.00	0	98.8	80	120				
trans-1,2-Dichloroethene	19.640	0.50	20.00	0	98.2	80	120				
Trichloroethene	19.400	0.50	20.00	0	97.0	80	120				
Trichlorofluoromethane	20.560	0.50	20.00	0	103	71	148				
Vinyl chloride	20.230	0.50	20.00	0	101	80	120				
Surr: 1,2-Dichloroethane-d4	25.490		25.00		102	56	120				
Surr: 4-Bromofluorobenzene	25.610		25.00		102	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115LCS2	SampType: LCS	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 86349						
Client ID: LCSW	Batch ID: P12VW131	TestNo: EPA 8260B		Analysis Date: 11/16/2012	SeqNo: 1474452						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Dibromofluoromethane	25.950		25.00		104	72	120				
Surr: Toluene-d8	26.060		25.00		104	80	123				

Sample ID: P121115LCS2	SampType: LCS	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 86349						
Client ID: LCS02	Batch ID: P12VW131	TestNo: EPA 8260B		Analysis Date: 11/16/2012	SeqNo: 1474453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	20.290	0.50	20.00	0	101	74	122	19.97	1.59	20	
1,1,1-Trichloroethane	19.750	0.50	20.00	0	98.8	65	120	19.59	0.813	20	
1,1,2,2-Tetrachloroethane	18.040	0.50	20.00	0	90.2	80	120	18.65	3.33	20	
1,1,2-Trichloroethane	18.840	0.50	20.00	0	94.2	80	120	18.76	0.426	20	
1,1-Dichloroethane	19.870	0.50	20.00	0	99.4	80	120	19.79	0.403	20	
1,1-Dichloroethene	20.360	0.50	20.00	0	102	80	120	20.07	1.43	20	
1,1-Dichloropropene	19.560	0.50	20.00	0	97.8	80	120	19.22	1.75	20	
1,2,3-Trichlorobenzene	20.560	0.50	20.00	0	103	80	124	20.67	0.534	20	
1,2,3-Trichloropropane	18.880	0.50	20.00	0	94.4	80	120	18.76	0.638	20	
1,2,4-Trichlorobenzene	20.420	0.50	20.00	0	102	80	126	20.77	1.70	20	
1,2,4-Trimethylbenzene	21.160	0.50	20.00	0	106	80	123	21.20	0.189	20	
1,2-Dibromo-3-chloropropane	18.100	1.0	20.00	0	90.5	70	120	18.21	0.606	20	
1,2-Dibromoethane	19.260	0.50	20.00	0	96.3	80	120	19.08	0.939	20	
1,2-Dichlorobenzene	19.970	0.50	20.00	0	99.8	80	120	19.94	0.150	20	
1,2-Dichloroethane	19.280	0.50	20.00	0	96.4	80	120	19.21	0.364	20	
1,2-Dichloropropene	19.500	0.50	20.00	0	97.5	80	120	19.25	1.29	20	
1,3,5-Trimethylbenzene	21.180	0.50	20.00	0	106	80	121	20.93	1.19	20	
1,3-Dichlorobenzene	20.050	0.50	20.00	0	100	80	120	19.87	0.902	20	
1,3-Dichloropropane	19.560	0.50	20.00	0	97.8	80	120	19.03	2.75	20	
1,4-Dichlorobenzene	19.720	0.50	20.00	0	98.6	80	120	19.66	0.305	20	
2,2-Dichloropropane	16.000	0.50	20.00	0	80.0	54	120	16.54	3.32	20	
2-Chlorotoluene	20.460	0.50	20.00	0	102	80	122	20.34	0.588	20	
4-Chlorotoluene	20.170	0.50	20.00	0	101	80	120	20.24	0.346	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115LCSD2		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86349	
Client ID: LCSS02		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474453	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	21.260	0.50	20.00	0	106	80	122	21.25	0.0470	20	20
Benzene	19.630	0.50	20.00	0	98.2	80	120	19.28	1.80	20	20
Bromobenzene	20.360	0.50	20.00	0	102	80	120	20.27	0.443	20	20
Bromodichloromethane	19.850	0.50	20.00	0	99.2	70	120	19.84	0.0504	20	20
Bromoform	19.730	0.50	20.00	0	98.6	66	120	19.35	1.94	20	20
Bromomethane	24.900	0.50	20.00	0	125	48	155	24.35	2.23	20	20
Carbon tetrachloride	19.840	0.50	20.00	0	99.2	60	120	19.82	0.101	20	20
Chlorobenzene	20.140	0.50	20.00	0	101	80	120	19.61	2.67	20	20
Chloroethane	20.420	0.50	20.00	0	102	62	147	20.07	1.73	20	20
Chloroform	19.480	0.50	20.00	0	97.4	80	120	19.58	0.512	20	20
Chloromethane	17.550	0.50	20.00	0	87.8	63	121	18.11	3.14	20	20
cis-1,2-Dichloroethene	19.250	0.50	20.00	0	96.2	80	120	19.38	0.673	20	20
Dibromochloromethane	19.720	0.50	20.00	0	98.6	67	123	19.62	0.508	20	20
Dibromomethane	19.660	0.50	20.00	0	98.3	80	120	19.15	2.63	20	20
Dichlorodifluoromethane	20.020	0.50	20.00	0	100	70	121	20.10	0.399	20	20
Ethylbenzene	19.950	0.50	20.00	0	99.8	80	120	19.43	2.64	20	20
Hexachlorobutadiene	19.650	0.50	20.00	0	98.2	80	123	19.41	1.23	20	20
Isopropylbenzene	20.790	0.50	20.00	0	104	80	121	20.82	0.144	20	20
m,p-Xylene	40.820	1.0	40.00	0	102	80	120	39.63	2.96	20	20
Methylene chloride	19.030	2.0	20.00	0	95.2	75	120	19.04	0.0525	20	20
MTBE	19.340	0.50	20.00	0	96.7	70	120	19.56	1.13	20	20
n-Butylbenzene	20.540	0.50	20.00	0	103	80	129	20.51	0.146	20	20
n-Propylbenzene	20.700	0.50	20.00	0	104	80	122	20.56	0.679	20	20
Naphthalene	21.110	0.50	20.00	0	106	73	127	21.15	0.189	20	20
o-Xylene	20.620	0.50	20.00	0	103	80	120	20.24	1.86	20	20
sec-Butylbenzene	20.960	0.50	20.00	0	105	80	120	20.61	1.68	20	20
Styrene	21.570	0.50	20.00	0	108	80	120	21.06	2.39	20	20
tert-Butylbenzene	21.000	0.50	20.00	0	105	80	120	20.90	0.477	20	20
Tetrachloroethene	19.760	0.50	20.00	0	98.8	80	121	19.35	2.10	20	20
Toluene	19.940	0.50	20.00	0	99.7	80	120	19.76	0.907	20	20

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115LCSD2		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86349	
Client ID: LCSS02		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474453	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	19.580	0.50	20.00	0	97.9	80	120	19.64	0.306	20	
Trichloroethene	19.900	0.50	20.00	0	99.5	80	120	19.40	2.54	20	
Trichlorofluoromethane	20.420	0.50	20.00	0	102	71	148	20.56	0.683	20	
Vinyl chloride	20.390	0.50	20.00	0	102	80	120	20.23	0.788	20	
Surr: 1,2-Dichloroethane-d4	25.720		25.00		103	56	120		0		
Surr: 4-Bromofluorobenzene	26.440		25.00		106	80	120		0		
Surr: Dibromofluoromethane	25.600		25.00		102	72	120		0		
Surr: Toluene-d8	26.600		25.00		106	80	123		0		

Sample ID: P121115MB3		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86349		
Client ID: PBW		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474454		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND	0.50									
1,1,1-Trichloroethane		ND	0.50									
1,1,2,2-Tetrachloroethane		ND	0.50									
1,1,2-Trichloroethane		ND	0.50									
1,1-Dichloroethane		ND	0.50									
1,1-Dichloroethene		ND	0.50									
1,1-Dichloropropene		ND	0.50									
1,2,3-Trichlorobenzene		ND	0.50									
1,2,3-Trichloropropane		ND	0.50									
1,2,4-Trichlorobenzene		ND	0.50									
1,2,4-Trimethylbenzene		ND	0.50									
1,2-Dibromo-3-chloropropane		ND	1.0									
1,2-Dibromoethane		ND	0.50									
1,2-Dichlorobenzene		ND	0.50									
1,2-Dichloroethane		ND	0.50									
1,2-Dichloropropane		ND	0.50									
1,3,5-Trimethylbenzene		ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115MB3		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86349		
Client ID: PBW		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474454		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene		ND	0.50									
1,3-Dichloropropane		ND	0.50									
1,4-Dichlorobenzene		ND	0.50									
2,2-Dichloropropane		ND	0.50									
2-Chlorotoluene		ND	0.50									
4-Chlorotoluene		ND	0.50									
4-Isopropyltoluene		ND	0.50									
Benzene		ND	0.50									
Bromobenzene		ND	0.50									
Bromodichloromethane		ND	0.50									
Bromoform		ND	0.50									
Bromomethane		ND	0.50									
Carbon tetrachloride		ND	0.50									
Chlorobenzene		ND	0.50									
Chloroethane		ND	0.50									
Chloroform		ND	0.50									
Chloromethane		ND	0.50									
cis-1,2-Dichloroethene		ND	0.50									
Dibromochloromethane		ND	0.50									
Dibromomethane		ND	0.50									
Dichlorodifluoromethane		ND	0.50									
Ethylbenzene		ND	0.50									
Hexachlorobutadiene		ND	0.50									
Isopropylbenzene		ND	0.50									
m,p-Xylene		ND	1.0									
Methylene chloride		ND	2.0									
MTBE		ND	0.50									
n-Butylbenzene		ND	0.50									
n-Propylbenzene		ND	0.50									
Naphthalene		ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
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CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

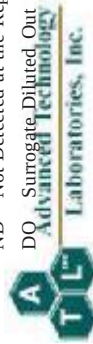
ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121115MB3		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86349		
Client ID: PBW		Batch ID: P12VW131		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1474454		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene		ND	0.50									
sec-Butylbenzene		ND	0.50									
Styrene		ND	0.50									
tert-Butylbenzene		ND	0.50									
Tetrachloroethene		ND	0.50									
Toluene		ND	0.50									
trans-1,2-Dichloroethene		ND	0.50									
Trichloroethene		ND	0.50									
Trichlorofluoromethane		ND	0.50									
Vinyl chloride		ND	0.50									
Surr: 1,2-Dichloroethane-d4		26.010		25.00		104	56	120				
Surr: 4-Bromofluorobenzene		24.640		25.00		98.6	80	120				
Surr: Dibromofluoromethane		26.760		25.00		107	72	120				
Surr: Toluene-d8		25.270		25.00		101	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116LCS		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86370	
Client ID: LCSW		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475290	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.930	0.50	20.00	0	99.7	74	122				
1,1,1-Trichloroethane	19.540	0.50	20.00	0	97.7	65	120				
1,1,2,2-Tetrachloroethane	17.920	0.50	20.00	0	89.6	80	120				
1,1,2-Trichloroethane	18.580	0.50	20.00	0	92.9	80	120				
1,1-Dichloroethane	19.370	0.50	20.00	0	96.9	80	120				
1,1-Dichloroethene	21.060	0.50	20.00	0	105	80	120				
1,1-Dichloropropene	19.650	0.50	20.00	0	98.2	80	120				
1,2,3-Trichlorobenzene	20.700	0.50	20.00	0	104	80	124				
1,2,3-Trichloropropane	18.140	0.50	20.00	0	90.7	80	120				
1,2,4-Trichlorobenzene	20.730	0.50	20.00	0	104	80	126				
1,2,4-Trimethylbenzene	21.490	0.50	20.00	0	107	80	123				
1,2-Dibromo-3-chloropropane	16.650	1.0	20.00	0	83.3	70	120				
1,2-Dibromoethane	18.480	0.50	20.00	0	92.4	80	120				
1,2-Dichlorobenzene	20.160	0.50	20.00	0	101	80	120				
1,2-Dichloroethane	18.920	0.50	20.00	0	94.6	80	120				
1,2-Dichloropropane	18.980	0.50	20.00	0	94.9	80	120				
1,3,5-Trimethylbenzene	21.350	0.50	20.00	0	107	80	121				
1,3-Dichlorobenzene	20.430	0.50	20.00	0	102	80	120				
1,3-Dichloropropane	18.670	0.50	20.00	0	93.4	80	120				
1,4-Dichlorobenzene	20.060	0.50	20.00	0	100	80	120				
2,2-Dichloropropane	23.610	0.50	20.00	0	118	54	120				
2-Chlorotoluene	20.500	0.50	20.00	0	103	80	122				
4-Chlorotoluene	20.210	0.50	20.00	0	101	80	120				
4-Isopropyltoluene	21.720	0.50	20.00	0	109	80	122				
Benzene	19.290	0.50	20.00	0	96.5	80	120				
Bromobenzene	20.170	0.50	20.00	0	101	80	120				
Bromodichloromethane	19.470	0.50	20.00	0	97.4	70	120				
Bromoform	19.310	0.50	20.00	0	96.6	66	120				
Bromomethane	26.600	0.50	20.00	0	133	48	155				
Carbon tetrachloride	20.080	0.50	20.00	0	100	60	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116LCS		SampType: LCS		TestCode: 8260_WP_LL			Units: µg/L		Prep Date:		RunNo: 86370	
Client ID: LCSW		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475290		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chlorobenzene	19.920	0.50	20.00	0	99.6	80	120					
Chloroethane	20.870	0.50	20.00	0	104	62	147					
Chloroform	19.190	0.50	20.00	0	96.0	80	120					
Chloromethane	18.550	0.50	20.00	0	92.8	63	121					
cis-1,2-Dichloroethene	18.950	0.50	20.00	0	94.8	80	120					
Dibromochloromethane	19.360	0.50	20.00	0	96.8	67	123					
Dibromomethane	18.830	0.50	20.00	0	94.2	80	120					
Dichlorodifluoromethane	20.920	0.50	20.00	0	105	70	121					
Ethylbenzene	19.840	0.50	20.00	0	99.2	80	120					
Hexachlorobutadiene	20.250	0.50	20.00	0	101	80	123					
Isopropylbenzene	20.730	0.50	20.00	0	104	80	121					
m,p-Xylene	40.460	1.0	40.00	0	101	80	120					
Methylene chloride	18.990	2.0	20.00	0	95.0	75	120					
MTBE	17.540	0.50	20.00	0	87.7	70	120					
n-Butylbenzene	21.730	0.50	20.00	0	109	80	129					
n-Propylbenzene	21.070	0.50	20.00	0	105	80	122					
Naphthalene	19.840	0.50	20.00	0	99.2	73	127					
o-Xylene	20.200	0.50	20.00	0	101	80	120					
sec-Butylbenzene	21.130	0.50	20.00	0	106	80	120					
Styrene	21.100	0.50	20.00	0	106	80	120					
tert-Butylbenzene	21.010	0.50	20.00	0	105	80	120					
Tetrachloroethene	19.880	0.50	20.00	0	99.4	80	121					
Toluene	19.690	0.50	20.00	0	98.4	80	120					
trans-1,2-Dichloroethene	19.480	0.50	20.00	0	97.4	80	120					
Trichloroethene	19.380	0.50	20.00	0	96.9	80	120					
Trichlorofluoromethane	21.700	0.50	20.00	0	108	71	148					
Vinyl chloride	20.120	0.50	20.00	0	101	80	120					
Surr: 1,2-Dichloroethane-d4	25.860		25.00		103	56	120					
Surr: 4-Bromofluorobenzene	26.680		25.00		107	80	120					
Surr: Dibromofluoromethane	26.120		25.00		104	72	120					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116LCS	SampType: LCS	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 86370						
Client ID: LCSW	Batch ID: P12VW132	TestNo: EPA 8260B		Analysis Date: 11/16/2012	SeqNo: 1475290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	26.750		25.00		107	80	123				

Sample ID: P121116LCSD		SampType: LCSD		TestCode: 8260_WP_LL			Units: µg/L		Prep Date:		RunNo: 86370	
Client ID: LCSS02		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475291		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1,2-Tetrachloroethane	20.120	0.50	20.00	0	101	74	122	19.93	0.949	20		
1,1,1-Trichloroethane	19.530	0.50	20.00	0	97.6	65	120	19.54	0.0512	20		
1,1,2,2-Tetrachloroethane	18.200	0.50	20.00	0	91.0	80	120	17.92	1.55	20		
1,1,2-Trichloroethane	18.670	0.50	20.00	0	93.4	80	120	18.58	0.483	20		
1,1-Dichloroethane	19.730	0.50	20.00	0	98.6	80	120	19.37	1.84	20		
1,1-Dichloroethene	20.540	0.50	20.00	0	103	80	120	21.06	2.50	20		
1,1-Dichloropropene	19.620	0.50	20.00	0	98.1	80	120	19.65	0.153	20		
1,2,3-Trichlorobenzene	20.660	0.50	20.00	0	103	80	124	20.70	0.193	20		
1,2,3-Trichloropropane	18.330	0.50	20.00	0	91.7	80	120	18.14	1.04	20		
1,2,4-Trichlorobenzene	20.870	0.50	20.00	0	104	80	126	20.73	0.673	20		
1,2,4-Trimethylbenzene	21.050	0.50	20.00	0	105	80	123	21.49	2.07	20		
1,2-Dibromo-3-chloropropane	16.920	1.0	20.00	0	84.6	70	120	16.65	1.61	20		
1,2-Dibromoethane	18.790	0.50	20.00	0	94.0	80	120	18.48	1.66	20		
1,2-Dichlorobenzene	19.840	0.50	20.00	0	99.2	80	120	20.16	1.60	20		
1,2-Dichloroethane	19.210	0.50	20.00	0	96.0	80	120	18.92	1.52	20		
1,2-Dichloropropane	19.470	0.50	20.00	0	97.4	80	120	18.98	2.55	20		
1,3,5-Trimethylbenzene	20.990	0.50	20.00	0	105	80	121	21.35	1.70	20		
1,3-Dichlorobenzene	20.000	0.50	20.00	0	100	80	120	20.43	2.13	20		
1,3-Dichloropropane	19.080	0.50	20.00	0	95.4	80	120	18.67	2.17	20		
1,4-Dichlorobenzene	19.700	0.50	20.00	0	98.5	80	120	20.06	1.81	20		
2,2-Dichloropropane	23.330	0.50	20.00	0	117	54	120	23.61	1.19	20		
2-Chlorotoluene	20.070	0.50	20.00	0	100	80	122	20.50	2.12	20		
4-Chlorotoluene	20.150	0.50	20.00	0	101	80	120	20.21	0.297	20		
4-Isopropyltoluene	21.250	0.50	20.00	0	106	80	122	21.72	2.19	20		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted, Out
E Value above quantitation range
R RPD outside accepted recovery limits
H Holding times for preparation or analysis exceed
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116LCSD		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86370	
Client ID: LCSS02		Batch ID: P12VW132		TestNo: EPA 8260B		Analysis Date: 11/16/2012		SeqNo: 1475291			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.500	0.50	20.00	0	97.5	80	120	19.29	1.08	20	20
Bromobenzene	19.960	0.50	20.00	0	99.8	80	120	20.17	1.05	20	20
Bromodichloromethane	19.780	0.50	20.00	0	98.9	70	120	19.47	1.58	20	20
Bromoform	19.240	0.50	20.00	0	96.2	66	120	19.31	0.363	20	20
Bromomethane	26.140	0.50	20.00	0	131	48	155	26.60	1.74	20	20
Carbon tetrachloride	19.840	0.50	20.00	0	99.2	60	120	20.08	1.20	20	20
Chlorobenzene	19.800	0.50	20.00	0	99.0	80	120	19.92	0.604	20	20
Chloroethane	20.580	0.50	20.00	0	103	62	147	20.87	1.40	20	20
Chloroform	19.370	0.50	20.00	0	96.9	80	120	19.19	0.934	20	20
Chloromethane	18.660	0.50	20.00	0	93.3	63	121	18.55	0.591	20	20
cis-1,2-Dichloroethene	18.880	0.50	20.00	0	94.4	80	120	18.95	0.370	20	20
Dibromochloromethane	19.470	0.50	20.00	0	97.4	67	123	19.36	0.567	20	20
Dibromomethane	19.320	0.50	20.00	0	96.6	80	120	18.83	2.57	20	20
Dichlorodifluoromethane	20.740	0.50	20.00	0	104	70	121	20.92	0.864	20	20
Ethylbenzene	19.800	0.50	20.00	0	99.0	80	120	19.84	0.202	20	20
Hexachlorobutadiene	19.540	0.50	20.00	0	97.7	80	123	20.25	3.57	20	20
Isopropylbenzene	20.390	0.50	20.00	0	102	80	121	20.73	1.65	20	20
m,p-Xylene	40.380	1.0	40.00	0	101	80	120	40.46	0.198	20	20
Methylene chloride	19.090	2.0	20.00	0	95.4	75	120	18.99	0.525	20	20
MTBE	18.760	0.50	20.00	0	93.8	70	120	17.54	6.72	20	20
n-Butylbenzene	21.290	0.50	20.00	0	106	80	129	21.73	2.05	20	20
n-Propylbenzene	20.790	0.50	20.00	0	104	80	122	21.07	1.34	20	20
Naphthalene	20.040	0.50	20.00	0	100	73	127	19.84	1.00	20	20
o-Xylene	20.110	0.50	20.00	0	101	80	120	20.20	0.447	20	20
sec-Butylbenzene	20.700	0.50	20.00	0	104	80	120	21.13	2.06	20	20
Styrene	21.070	0.50	20.00	0	105	80	120	21.10	0.142	20	20
tert-Butylbenzene	20.560	0.50	20.00	0	103	80	120	21.01	2.17	20	20
Tetrachloroethene	19.990	0.50	20.00	0	100	80	121	19.88	0.552	20	20
Toluene	19.700	0.50	20.00	0	98.5	80	120	19.69	0.0508	20	20
trans-1,2-Dichloroethene	20.070	0.50	20.00	0	100	80	120	19.48	2.98	20	20

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116LCSD		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86370	
Client ID: LCSS02		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475291	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	19.410	0.50	20.00	0	97.0	80	120	19.38	0.155	20	
Trichlorofluoromethane	21.450	0.50	20.00	0	107	71	148	21.70	1.16	20	
Vinyl chloride	20.410	0.50	20.00	0	102	80	120	20.12	1.43	20	
Surr: 1,2-Dichloroethane-d4	25.710		25.00		103	56	120		0		
Surr: 4-Bromofluorobenzene	25.770		25.00		103	80	120		0		
Surr: Dibromofluoromethane	25.550		25.00		102	72	120		0		
Surr: Toluene-d8	26.430		25.00		106	80	123		0		

Sample ID: P121116MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86370	
Client ID: PBW		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475292	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference



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Calculations are based on raw values

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86370		
Client ID: PBW		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475292		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane		ND	0.50									
1,4-Dichlorobenzene		ND	0.50									
2,2-Dichloropropane		ND	0.50									
2-Chlorotoluene		ND	0.50									
4-Chlorotoluene		ND	0.50									
4-Isopropyltoluene		ND	0.50									
Benzene		ND	0.50									
Bromobenzene		ND	0.50									
Bromodichloromethane		ND	0.50									
Bromoform		ND	0.50									
Bromomethane		ND	0.50									
Carbon tetrachloride		ND	0.50									
Chlorobenzene		ND	0.50									
Chloroethane		ND	0.50									
Chloroform		ND	0.50									
Chloromethane		ND	0.50									
cis-1,2-Dichloroethene		ND	0.50									
Dibromochloromethane		ND	0.50									
Dibromomethane		ND	0.50									
Dichlorodifluoromethane		ND	0.50									
Ethylbenzene		ND	0.50									
Hexachlorobutadiene		ND	0.50									
Isopropylbenzene		ND	0.50									
m,p-Xylene		ND	1.0									
Methylene chloride		ND	2.0									
MTBE		ND	0.50									
n-Butylbenzene		ND	0.50									
n-Propylbenzene		ND	0.50									
Naphthalene		ND	0.50									
o-Xylene		ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



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CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121116MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86370		
Client ID: PBW		Batch ID: P12VW132		TestNo: EPA 8260B				Analysis Date: 11/16/2012		SeqNo: 1475292		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene		ND	0.50									
Styrene		ND	0.50									
tert-Butylbenzene		ND	0.50									
Tetrachloroethene		ND	0.50									
Toluene		ND	0.50									
trans-1,2-Dichloroethene		ND	0.50									
Trichloroethene		ND	0.50									
Trichlorofluoromethane		ND	0.50									
Vinyl chloride		ND	0.50									
Surr: 1,2-Dichloroethane-d4		26.410		25.00		106	56	120				
Surr: 4-Bromofluorobenzene		24.760		25.00		99.0	80	120				
Surr: Dibromofluoromethane		26.980		25.00		108	72	120				
Surr: Toluene-d8		26.000		25.00		104	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



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CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117LCS		SampType: LCS		TestCode: 8260_WP_LL			Units: µg/L		Prep Date:		RunNo: 86381	
Client ID: LCSW		Batch ID: P12VW133		TestNo: EPA 8260B					Analysis Date: 11/17/2012		SeqNo: 1475956	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1,2-Tetrachloroethane	19.370	0.50	20.00	0	96.9	74	122					
1,1,1-Trichloroethane	17.470	0.50	20.00	0	87.4	65	120					
1,1,2,2-Tetrachloroethane	17.040	0.50	20.00	0	85.2	80	120					
1,1,2-Trichloroethane	17.380	0.50	20.00	0	86.9	80	120					
1,1-Dichloroethane	17.480	0.50	20.00	0	87.4	80	120					
1,1-Dichloroethene	18.200	0.50	20.00	0	91.0	80	120					
1,1-Dichloropropene	18.490	0.50	20.00	0	92.5	80	120					
1,2,3-Trichlorobenzene	20.040	0.50	20.00	0	100	80	124					
1,2,3-Trichloropropane	17.150	0.50	20.00	0	85.8	80	120					
1,2,4-Trichlorobenzene	19.820	0.50	20.00	0	99.1	80	126					
1,2,4-Trimethylbenzene	20.020	0.50	20.00	0	100	80	123					
1,2-Dibromo-3-chloropropane	16.880	1.0	20.00	0	84.4	70	120					
1,2-Dibromoethane	18.240	0.50	20.00	0	91.2	80	120					
1,2-Dichlorobenzene	19.140	0.50	20.00	0	95.7	80	120					
1,2-Dichloroethane	17.960	0.50	20.00	0	89.8	80	120					
1,2-Dichloropropane	17.720	0.50	20.00	0	88.6	80	120					
1,3,5-Trimethylbenzene	19.870	0.50	20.00	0	99.4	80	121					
1,3-Dichlorobenzene	19.190	0.50	20.00	0	96.0	80	120					
1,3-Dichloropropane	18.060	0.50	20.00	0	90.3	80	120					
1,4-Dichlorobenzene	18.870	0.50	20.00	0	94.4	80	120					
2,2-Dichloropropane	21.140	0.50	20.00	0	106	54	120					
2-Chlorotoluene	18.940	0.50	20.00	0	94.7	80	122					
4-Chlorotoluene	18.850	0.50	20.00	0	94.3	80	120					
4-Isopropyltoluene	20.420	0.50	20.00	0	102	80	122					
Benzene	18.240	0.50	20.00	0	91.2	80	120					
Bromobenzene	18.980	0.50	20.00	0	94.9	80	120					
Bromodichloromethane	18.500	0.50	20.00	0	92.5	70	120					
Bromoform	18.680	0.50	20.00	0	93.4	66	120					
Bromomethane	22.540	0.50	20.00	0	113	48	155					
Carbon tetrachloride	18.820	0.50	20.00	0	94.1	60	120					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117LCS		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86381	
Client ID: LCSW		Batch ID: P12VW133		TestNo: EPA 8260B				Analysis Date: 11/17/2012		SeqNo: 1475956	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	18.820	0.50	20.00	0	94.1	80	120				
Chloroethane	17.650	0.50	20.00	0	88.2	62	147				
Chloroform	17.450	0.50	20.00	0	87.2	80	120				
Chloromethane	15.440	0.50	20.00	0	77.2	63	121				
cis-1,2-Dichloroethene	17.320	0.50	20.00	0	86.6	80	120				
Dibromochloromethane	18.850	0.50	20.00	0	94.3	67	123				
Dibromomethane	18.270	0.50	20.00	0	91.4	80	120				
Dichlorodifluoromethane	18.080	0.50	20.00	0	90.4	70	121				
Ethylbenzene	18.490	0.50	20.00	0	92.5	80	120				
Hexachlorobutadiene	19.710	0.50	20.00	0	98.6	80	123				
Isopropylbenzene	19.020	0.50	20.00	0	95.1	80	121				
m,p-Xylene	37.880	1.0	40.00	0	94.7	80	120				
Methylene chloride	17.230	2.0	20.00	0	86.2	75	120				
MTBE	16.070	0.50	20.00	0	80.4	70	120				
n-Butylbenzene	20.120	0.50	20.00	0	101	80	129				
n-Propylbenzene	19.430	0.50	20.00	0	97.2	80	122				
Naphthalene	19.170	0.50	20.00	0	95.9	73	127				
o-Xylene	18.840	0.50	20.00	0	94.2	80	120				
sec-Butylbenzene	19.750	0.50	20.00	0	98.8	80	120				
Styrene	19.840	0.50	20.00	0	99.2	80	120				
tert-Butylbenzene	19.540	0.50	20.00	0	97.7	80	120				
Tetrachloroethene	19.030	0.50	20.00	0	95.2	80	121				
Toluene	18.620	0.50	20.00	0	93.1	80	120				
trans-1,2-Dichloroethene	17.480	0.50	20.00	0	87.4	80	120				
Trichloroethene	18.550	0.50	20.00	0	92.8	80	120				
Trichlorofluoromethane	19.100	0.50	20.00	0	95.5	71	148				
Vinyl chloride	17.620	0.50	20.00	0	88.1	80	120				
Surr: 1,2-Dichloroethane-d4	24.130		25.00		96.5	56	120				
Surr: 4-Bromofluorobenzene	25.850		25.00		103	80	120				
Surr: Dibromofluoromethane	24.630		25.00		98.5	72	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



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CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117LCS	SampType: LCS	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 86381						
Client ID: LCSW	Batch ID: P12VW133	TestNo: EPA 8260B		Analysis Date: 11/17/2012	SeqNo: 1475956						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: P121117LCS	SampType: LCS	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 86381						
Client ID: LCSS02	Batch ID: P12VW133	TestNo: EPA 8260B		Analysis Date: 11/17/2012	SeqNo: 1475957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	19.170	0.50	20.00	0	95.9	74	122	19.37	1.04	20	
1,1,1-Trichloroethane	17.740	0.50	20.00	0	88.7	65	120	17.47	1.53	20	
1,1,2,2-Tetrachloroethane	17.390	0.50	20.00	0	87.0	80	120	17.04	2.03	20	
1,1,2-Trichloroethane	17.960	0.50	20.00	0	89.8	80	120	17.38	3.28	20	
1,1-Dichloroethane	17.690	0.50	20.00	0	88.4	80	120	17.48	1.19	20	
1,1-Dichloroethene	17.990	0.50	20.00	0	90.0	80	120	18.20	1.16	20	
1,1-Dichloropropene	18.570	0.50	20.00	0	92.8	80	120	18.49	0.432	20	
1,2,3-Trichlorobenzene	20.120	0.50	20.00	0	101	80	124	20.04	0.398	20	
1,2,3-Trichloropropene	17.280	0.50	20.00	0	86.4	80	120	17.15	0.755	20	
1,2,4-Trichlorobenzene	19.980	0.50	20.00	0	99.9	80	126	19.82	0.804	20	
1,2,4-Trimethylbenzene	19.860	0.50	20.00	0	99.3	80	123	20.02	0.802	20	
1,2-Dibromo-3-chloropropane	17.980	1.0	20.00	0	89.9	70	120	16.88	6.31	20	
1,2-Dibromoethane	18.220	0.50	20.00	0	91.1	80	120	18.24	0.110	20	
1,2-Dichlorobenzene	19.050	0.50	20.00	0	95.2	80	120	19.14	0.471	20	
1,2-Dichloroethane	18.130	0.50	20.00	0	90.7	80	120	17.96	0.942	20	
1,2-Dichloropropene	18.100	0.50	20.00	0	90.5	80	120	17.72	2.12	20	
1,3,5-Trimethylbenzene	19.690	0.50	20.00	0	98.4	80	121	19.87	0.910	20	
1,3-Dichlorobenzene	19.200	0.50	20.00	0	96.0	80	120	19.19	0.0521	20	
1,3-Dichloropropene	18.050	0.50	20.00	0	90.3	80	120	18.06	0.0554	20	
1,4-Dichlorobenzene	18.760	0.50	20.00	0	93.8	80	120	18.87	0.585	20	
2,2-Dichloropropene	20.500	0.50	20.00	0	103	54	120	21.14	3.07	20	
2-Chlorotoluene	18.820	0.50	20.00	0	94.1	80	122	18.94	0.636	20	
4-Chlorotoluene	18.810	0.50	20.00	0	94.1	80	120	18.85	0.212	20	
4-Isopropyltoluene	20.180	0.50	20.00	0	101	80	122	20.42	1.18	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117LCSD		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86381	
Client ID: LCSS02		Batch ID: P12VW133		TestNo: EPA 8260B				Analysis Date: 11/17/2012		SeqNo: 1475957	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.290	0.50	20.00	0	91.4	80	120	18.24	0.274	20	
Bromobenzene	18.910	0.50	20.00	0	94.6	80	120	18.98	0.369	20	
Bromodichloromethane	18.670	0.50	20.00	0	93.4	70	120	18.50	0.915	20	
Bromoform	19.040	0.50	20.00	0	95.2	66	120	18.68	1.91	20	
Bromomethane	22.470	0.50	20.00	0	112	48	155	22.54	0.311	20	
Carbon tetrachloride	19.140	0.50	20.00	0	95.7	60	120	18.82	1.69	20	
Chlorobenzene	18.670	0.50	20.00	0	93.4	80	120	18.82	0.800	20	
Chloroethane	17.490	0.50	20.00	0	87.5	62	147	17.65	0.911	20	
Chloroform	17.470	0.50	20.00	0	87.4	80	120	17.45	0.115	20	
Chloromethane	15.940	0.50	20.00	0	79.7	63	121	15.44	3.19	20	
cis-1,2-Dichloroethene	16.950	0.50	20.00	0	84.8	80	120	17.32	2.16	20	
Dibromochloromethane	18.650	0.50	20.00	0	93.3	67	123	18.85	1.07	20	
Dibromomethane	18.570	0.50	20.00	0	92.8	80	120	18.27	1.63	20	
Dichlorodifluoromethane	17.790	0.50	20.00	0	89.0	70	121	18.08	1.62	20	
Ethylbenzene	18.580	0.50	20.00	0	92.9	80	120	18.49	0.486	20	
Hexachlorobutadiene	19.360	0.50	20.00	0	96.8	80	123	19.71	1.79	20	
Isopropylbenzene	19.200	0.50	20.00	0	96.0	80	121	19.02	0.942	20	
m,p-Xylene	37.950	1.0	40.00	0	94.9	80	120	37.88	0.185	20	
Methylene chloride	16.860	2.0	20.00	0	84.3	75	120	17.23	2.17	20	
MTBE	17.030	0.50	20.00	0	85.2	70	120	16.07	5.80	20	
n-Butylbenzene	19.660	0.50	20.00	0	98.3	80	129	20.12	2.31	20	
n-Propylbenzene	19.270	0.50	20.00	0	96.4	80	122	19.43	0.827	20	
Naphthalene	19.440	0.50	20.00	0	97.2	73	127	19.17	1.40	20	
o-Xylene	18.910	0.50	20.00	0	94.6	80	120	18.84	0.371	20	
sec-Butylbenzene	19.390	0.50	20.00	0	97.0	80	120	19.75	1.84	20	
Styrene	20.170	0.50	20.00	0	101	80	120	19.84	1.65	20	
tert-Butylbenzene	19.310	0.50	20.00	0	96.6	80	120	19.54	1.18	20	
Tetrachloroethene	19.300	0.50	20.00	0	96.5	80	121	19.03	1.41	20	
Toluene	18.660	0.50	20.00	0	93.3	80	120	18.62	0.215	20	
trans-1,2-Dichloroethene	17.680	0.50	20.00	0	88.4	80	120	17.48	1.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117LCSD		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86381		
Client ID: LCSS02		Batch ID: P12VW133		TestNo: EPA 8260B				Analysis Date: 11/17/2012		SeqNo: 1475957		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		18.900	0.50	20.00	0	94.5	80	120	18.55	1.87	20	
Trichlorofluoromethane		18.790	0.50	20.00	0	94.0	71	148	19.10	1.64	20	
Vinyl chloride		17.670	0.50	20.00	0	88.4	80	120	17.62	0.283	20	
Surr: 1,2-Dichloroethane-d4		23.910		25.00		95.6	56	120		0		
Surr: 4-Bromofluorobenzene		25.460		25.00		102	80	120		0		
Surr: Dibromofluoromethane		24.390		25.00		97.6	72	120		0		
Surr: Toluene-d8		26.400		25.00		106	80	123		0		

Sample ID: P121117MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86381		
Client ID: PBW		Batch ID: P12VW133		TestNo: EPA 8260B				Analysis Date: 11/17/2012		SeqNo: 1475958		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted, Out
E Value above quantitation range
R RPD outside accepted recovery limits
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86381		
Client ID: PBW		Batch ID: P12VW133		TestNo: EPA 8260B				Analysis Date: 11/17/2012		SeqNo: 1475958		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane		ND	0.50									
1,4-Dichlorobenzene		ND	0.50									
2,2-Dichloropropane		ND	0.50									
2-Chlorotoluene		ND	0.50									
4-Chlorotoluene		ND	0.50									
4-Isopropyltoluene		ND	0.50									
Benzene		ND	0.50									
Bromobenzene		ND	0.50									
Bromodichloromethane		ND	0.50									
Bromoform		ND	0.50									
Bromomethane		ND	0.50									
Carbon tetrachloride		ND	0.50									
Chlorobenzene		ND	0.50									
Chloroethane		ND	0.50									
Chloroform		ND	0.50									
Chloromethane		ND	0.50									
cis-1,2-Dichloroethene		ND	0.50									
Dibromochloromethane		ND	0.50									
Dibromomethane		ND	0.50									
Dichlorodifluoromethane		ND	0.50									
Ethylbenzene		ND	0.50									
Hexachlorobutadiene		ND	0.50									
Isopropylbenzene		ND	0.50									
m,p-Xylene		ND	1.0									
Methylene chloride		ND	2.0									
MTBE		ND	0.50									
n-Butylbenzene		ND	0.50									
n-Propylbenzene		ND	0.50									
Naphthalene		ND	0.50									
o-Xylene		ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121117MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86381	
Client ID: PBW		Batch ID: P12VW133		TestNo: EPA 8260B				Analysis Date: 11/17/2012		SeqNo: 1475958	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
sec-Butylbenzene		ND	0.50								
Styrene		ND	0.50								
tert-Butylbenzene		ND	0.50								
Tetrachloroethene		ND	0.50								
Toluene		ND	0.50								
trans-1,2-Dichloroethene		ND	0.50								
Trichloroethene		ND	0.50								
Trichlorofluoromethane		ND	0.50								
Vinyl chloride		ND	0.50								
Surr: 1,2-Dichloroethane-d4		24.810		25.00		99.2	56	120			
Surr: 4-Bromofluorobenzene		24.590		25.00		98.4	80	120			
Surr: Dibromofluoromethane		26.020		25.00		104	72	120			
Surr: Toluene-d8		25.510		25.00		102	80	123			

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118LCS		SampType: LCS		TestCode: 8260_WP_LL			Units: µg/L		Prep Date:		RunNo: 86382	
Client ID: LCSW		Batch ID: P12VW134		TestNo: EPA 8260B					Analysis Date: 11/18/2012		SeqNo: 1475976	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1,2-Tetrachloroethane	19.610	0.50	20.00	0	98.0	74	122					
1,1,1-Trichloroethane	18.170	0.50	20.00	0	90.9	65	120					
1,1,2,2-Tetrachloroethane	17.820	0.50	20.00	0	89.1	80	120					
1,1,2-Trichloroethane	17.940	0.50	20.00	0	89.7	80	120					
1,1-Dichloroethane	17.750	0.50	20.00	0	88.8	80	120					
1,1-Dichloroethene	17.760	0.50	20.00	0	88.8	80	120					
1,1-Dichloropropene	18.180	0.50	20.00	0	90.9	80	120					
1,2,3-Trichlorobenzene	20.850	0.50	20.00	0	104	80	124					
1,2,3-Trichloropropane	18.050	0.50	20.00	0	90.3	80	120					
1,2,4-Trichlorobenzene	20.500	0.50	20.00	0	103	80	126					
1,2,4-Trimethylbenzene	20.130	0.50	20.00	0	101	80	123					
1,2-Dibromo-3-chloropropane	18.380	1.0	20.00	0	91.9	70	120					
1,2-Dibromoethane	18.570	0.50	20.00	0	92.8	80	120					
1,2-Dichlorobenzene	19.190	0.50	20.00	0	96.0	80	120					
1,2-Dichloroethane	18.170	0.50	20.00	0	90.9	80	120					
1,2-Dichloropropane	17.890	0.50	20.00	0	89.4	80	120					
1,3,5-Trimethylbenzene	19.980	0.50	20.00	0	99.9	80	121					
1,3-Dichlorobenzene	19.400	0.50	20.00	0	97.0	80	120					
1,3-Dichloropropane	18.350	0.50	20.00	0	91.8	80	120					
1,4-Dichlorobenzene	19.160	0.50	20.00	0	95.8	80	120					
2,2-Dichloropropane	21.450	0.50	20.00	0	107	54	120					
2-Chlorotoluene	18.860	0.50	20.00	0	94.3	80	122					
4-Chlorotoluene	19.030	0.50	20.00	0	95.2	80	120					
4-Isopropyltoluene	20.290	0.50	20.00	0	101	80	122					
Benzene	18.280	0.50	20.00	0	91.4	80	120					
Bromobenzene	19.410	0.50	20.00	0	97.0	80	120					
Bromodichloromethane	18.610	0.50	20.00	0	93.0	70	120					
Bromoform	20.280	0.50	20.00	0	101	66	120					
Bromomethane	21.330	0.50	20.00	0	107	48	155					
Carbon tetrachloride	19.260	0.50	20.00	0	96.3	60	120					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118LCS		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382	
Client ID: LCSW		Batch ID: P12VW134		TestNo: EPA 8260B				Analysis Date: 11/18/2012		SeqNo: 1475976	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	18.970	0.50	20.00	0	94.8	80	120				
Chloroethane	17.080	0.50	20.00	0	85.4	62	147				
Chloroform	17.620	0.50	20.00	0	88.1	80	120				
Chloromethane	15.140	0.50	20.00	0	75.7	63	121				
cis-1,2-Dichloroethene	17.240	0.50	20.00	0	86.2	80	120				
Dibromochloromethane	19.300	0.50	20.00	0	96.5	67	123				
Dibromomethane	18.600	0.50	20.00	0	93.0	80	120				
Dichlorodifluoromethane	17.890	0.50	20.00	0	89.4	70	121				
Ethylbenzene	18.660	0.50	20.00	0	93.3	80	120				
Hexachlorobutadiene	19.940	0.50	20.00	0	99.7	80	123				
Isopropylbenzene	19.180	0.50	20.00	0	95.9	80	121				
m,p-Xylene	38.430	1.0	40.00	0	96.1	80	120				
Methylene chloride	17.070	2.0	20.00	0	85.4	75	120				
MTBE	17.020	0.50	20.00	0	85.1	70	120				
n-Butylbenzene	20.160	0.50	20.00	0	101	80	129				
n-Propylbenzene	19.500	0.50	20.00	0	97.5	80	122				
Naphthalene	20.190	0.50	20.00	0	101	73	127				
o-Xylene	18.940	0.50	20.00	0	94.7	80	120				
sec-Butylbenzene	19.840	0.50	20.00	0	99.2	80	120				
Styrene	20.160	0.50	20.00	0	101	80	120				
tert-Butylbenzene	19.570	0.50	20.00	0	97.9	80	120				
Tetrachloroethene	19.480	0.50	20.00	0	97.4	80	121				
Toluene	18.640	0.50	20.00	0	93.2	80	120				
trans-1,2-Dichloroethene	17.750	0.50	20.00	0	88.8	80	120				
Trichloroethene	18.820	0.50	20.00	0	94.1	80	120				
Trichlorofluoromethane	18.860	0.50	20.00	0	94.3	71	148				
Vinyl chloride	17.230	0.50	20.00	0	86.2	80	120				
Surr: 1,2-Dichloroethane-d4	24.300		25.00		97.2	56	120				
Surr: 4-Bromofluorobenzene	25.570		25.00		102	80	120				
Surr: Dibromofluoromethane	24.750		25.00		99.0	72	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118LCS	SampType: LCS	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 86382						
Client ID: LCSW	Batch ID: P12VW134	TestNo: EPA 8260B		Analysis Date: 11/18/2012	SeqNo: 1475976						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	25.900		25.00		104	80	123				

Sample ID: P121118LCS		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382	
Client ID: LCSS02		Batch ID: P12VW134		TestNo: EPA 8260B				Analysis Date: 11/18/2012		SeqNo: 1475977	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.500	0.50	20.00	0	97.5	74	122	19.61	0.563	20	
1,1,1-Trichloroethane	17.890	0.50	20.00	0	89.4	65	120	18.17	1.55	20	
1,1,2,2-Tetrachloroethane	17.900	0.50	20.00	0	89.5	80	120	17.82	0.448	20	
1,1,2-Trichloroethane	17.810	0.50	20.00	0	89.0	80	120	17.94	0.727	20	
1,1-Dichloroethane	17.380	0.50	20.00	0	86.9	80	120	17.75	2.11	20	
1,1-Dichloroethene	17.230	0.50	20.00	0	86.2	80	120	17.76	3.03	20	
1,1-Dichloropropene	18.210	0.50	20.00	0	91.1	80	120	18.18	0.165	20	
1,2,3-Trichlorobenzene	20.770	0.50	20.00	0	104	80	124	20.85	0.384	20	
1,2,3-Trichloropropane	18.150	0.50	20.00	0	90.8	80	120	18.05	0.552	20	
1,2,4-Trichlorobenzene	20.530	0.50	20.00	0	103	80	126	20.50	0.146	20	
1,2,4-Trimethylbenzene	20.120	0.50	20.00	0	101	80	123	20.13	0.0497	20	
1,2-Dibromo-3-chloropropane	18.890	1.0	20.00	0	94.4	70	120	18.38	2.74	20	
1,2-Dibromoethane	19.020	0.50	20.00	0	95.1	80	120	18.57	2.39	20	
1,2-Dichlorobenzene	19.340	0.50	20.00	0	96.7	80	120	19.19	0.779	20	
1,2-Dichloroethane	18.170	0.50	20.00	0	90.9	80	120	18.17	0	20	
1,2-Dichloropropane	17.730	0.50	20.00	0	88.6	80	120	17.89	0.898	20	
1,3,5-Trimethylbenzene	19.970	0.50	20.00	0	99.8	80	121	19.98	0.0501	20	
1,3-Dichlorobenzene	19.310	0.50	20.00	0	96.6	80	120	19.40	0.465	20	
1,3-Dichloropropane	18.270	0.50	20.00	0	91.4	80	120	18.35	0.437	20	
1,4-Dichlorobenzene	18.910	0.50	20.00	0	94.6	80	120	19.16	1.31	20	
2,2-Dichloropropane	20.260	0.50	20.00	0	101	54	120	21.45	5.71	20	
2-Chlorotoluene	19.070	0.50	20.00	0	95.4	80	122	18.86	1.11	20	
4-Chlorotoluene	18.790	0.50	20.00	0	94.0	80	120	19.03	1.27	20	
4-Isopropyltoluene	20.310	0.50	20.00	0	102	80	122	20.29	0.0985	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted, Out
E Value above quantitation range
R RPD outside accepted recovery limits
H Holding times for preparation or analysis exceed
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118LCSD		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382	
Client ID: LCSS02		Batch ID: P12VW134		TestNo: EPA 8260B		Analysis Date: 11/18/2012		SeqNo: 1475977			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.140	0.50	20.00	0	90.7	80	120	18.28	0.769	20	20
Bromobenzene	19.500	0.50	20.00	0	97.5	80	120	19.41	0.463	20	20
Bromodichloromethane	18.620	0.50	20.00	0	93.1	70	120	18.61	0.0537	20	20
Bromoform	20.040	0.50	20.00	0	100	66	120	20.28	1.19	20	20
Bromomethane	21.780	0.50	20.00	0	109	48	155	21.33	2.09	20	20
Carbon tetrachloride	19.090	0.50	20.00	0	95.4	60	120	19.26	0.887	20	20
Chlorobenzene	19.110	0.50	20.00	0	95.6	80	120	18.97	0.735	20	20
Chloroethane	16.270	0.50	20.00	0	81.4	62	147	17.08	4.86	20	20
Chloroform	17.610	0.50	20.00	0	88.0	80	120	17.62	0.0568	20	20
Chloromethane	15.030	0.50	20.00	0	75.2	63	121	15.14	0.729	20	20
cis-1,2-Dichloroethene	17.180	0.50	20.00	0	85.9	80	120	17.24	0.349	20	20
Dibromochloromethane	19.280	0.50	20.00	0	96.4	67	123	19.30	0.104	20	20
Dibromomethane	18.940	0.50	20.00	0	94.7	80	120	18.60	1.81	20	20
Dichlorodifluoromethane	17.510	0.50	20.00	0	87.6	70	121	17.89	2.15	20	20
Ethylbenzene	18.640	0.50	20.00	0	93.2	80	120	18.66	0.107	20	20
Hexachlorobutadiene	19.990	0.50	20.00	0	100	80	123	19.94	0.250	20	20
Isopropylbenzene	19.190	0.50	20.00	0	96.0	80	121	19.18	0.0521	20	20
m,p-Xylene	38.070	1.0	40.00	0	95.2	80	120	38.43	0.941	20	20
Methylene chloride	16.760	2.0	20.00	0	83.8	75	120	17.07	1.83	20	20
MTBE	17.270	0.50	20.00	0	86.4	70	120	17.02	1.46	20	20
n-Butylbenzene	20.090	0.50	20.00	0	100	80	129	20.16	0.348	20	20
n-Propylbenzene	19.400	0.50	20.00	0	97.0	80	122	19.50	0.514	20	20
Naphthalene	20.600	0.50	20.00	0	103	73	127	20.19	2.01	20	20
o-Xylene	19.030	0.50	20.00	0	95.2	80	120	18.94	0.474	20	20
sec-Butylbenzene	19.640	0.50	20.00	0	98.2	80	120	19.84	1.01	20	20
Styrene	20.110	0.50	20.00	0	101	80	120	20.16	0.248	20	20
tert-Butylbenzene	19.590	0.50	20.00	0	98.0	80	120	19.57	0.102	20	20
Tetrachloroethene	19.430	0.50	20.00	0	97.2	80	121	19.48	0.257	20	20
Toluene	18.570	0.50	20.00	0	92.8	80	120	18.64	0.376	20	20
trans-1,2-Dichloroethene	17.330	0.50	20.00	0	86.7	80	120	17.75	2.39	20	20

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted, Out
A Advanced Technology Laboratories, Inc.

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceed
S Spike/Surrogate outside of limits due to matrix interference



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118LCSD		SampType: LCSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382		
Client ID: LCSS02		Batch ID: P12VW134		TestNo: EPA 8260B				Analysis Date: 11/18/2012		SeqNo: 1475977		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		19.000	0.50	20.00	0	95.0	80	120	18.82	0.952	20	
Trichlorofluoromethane		18.150	0.50	20.00	0	90.8	71	148	18.86	3.84	20	
Vinyl chloride		17.120	0.50	20.00	0	85.6	80	120	17.23	0.640	20	
Surr: 1,2-Dichloroethane-d4		23.910		25.00		95.6	56	120		0		
Surr: 4-Bromofluorobenzene		25.830		25.00		103	80	120		0		
Surr: Dibromofluoromethane		24.900		25.00		99.6	72	120		0		
Surr: Toluene-d8		25.800		25.00		103	80	123		0		

Sample ID: P121118MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382		
Client ID: PBW		Batch ID: P12VW134		TestNo: EPA 8260B				Analysis Date: 11/18/2012		SeqNo: 1475978		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N008896
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382		
Client ID: PBW		Batch ID: P12VW134		TestNo: EPA 8260B				Analysis Date: 11/18/2012		SeqNo: 1475978		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane		ND	0.50									
1,4-Dichlorobenzene		ND	0.50									
2,2-Dichloropropane		ND	0.50									
2-Chlorotoluene		ND	0.50									
4-Chlorotoluene		ND	0.50									
4-Isopropyltoluene		ND	0.50									
Benzene		ND	0.50									
Bromobenzene		ND	0.50									
Bromodichloromethane		ND	0.50									
Bromoform		ND	0.50									
Bromomethane		ND	0.50									
Carbon tetrachloride		ND	0.50									
Chlorobenzene		ND	0.50									
Chloroethane		ND	0.50									
Chloroform		ND	0.50									
Chloromethane		ND	0.50									
cis-1,2-Dichloroethene		ND	0.50									
Dibromochloromethane		ND	0.50									
Dibromomethane		ND	0.50									
Dichlorodifluoromethane		ND	0.50									
Ethylbenzene		ND	0.50									
Hexachlorobutadiene		ND	0.50									
Isopropylbenzene		ND	0.50									
m,p-Xylene		ND	1.0									
Methylene chloride		ND	2.0									
MTBE		ND	0.50									
n-Butylbenzene		ND	0.50									
n-Propylbenzene		ND	0.50									
Naphthalene		ND	0.50									
o-Xylene		ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted, Out		Calculations are based on raw values		



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CLIENT: Cardno ATC

Work Order: N008896

Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: P121118MB2		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 86382		
Client ID: PBW		Batch ID: P12VW134		TestNo: EPA 8260B				Analysis Date: 11/18/2012		SeqNo: 1475978		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene		ND	0.50									
Styrene		ND	0.50									
tert-Butylbenzene		ND	0.50									
Tetrachloroethene		ND	0.50									
Toluene		ND	0.50									
trans-1,2-Dichloroethene		ND	0.50									
Trichloroethene		ND	0.50									
Trichlorofluoromethane		ND	0.50									
Vinyl chloride		ND	0.50									
Surr: 1,2-Dichloroethane-d4		25.050		25.00		100	56	120				
Surr: 4-Bromofluorobenzene		24.410		25.00		97.6	80	120				
Surr: Dibromofluoromethane		25.940		25.00		104	72	120				
Surr: Toluene-d8		25.400		25.00		102	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CHAIN OF CUSTODY RECORD

 Advanced Technology Laboratories INC. 3151-3153 W. Post Rd. Las Vegas, NV 89118 Tel: (702) 307-2659 • Fax: (702) 307-2691		FOR LABORATORY USE ONLY				Sample Condition Upon Receipt 1. CHILLED ☒ 4.0°C ☐ N ☐ 4. SEALED ☐ N ☐ 2. HEADSPACE (VOA) ☐ Y ☐ N ☐ 5. # OF SPLS MATCH COC ☒ Y ☐ N ☐ 3. CONTAINER INTACT ☒ Y ☐ N ☐ 6. PRESERVED ☒ Y ☐ N ☐	
P.O. #: _____ Logged By: <u>[Signature]</u> Date: <u>11/12/12</u>		Method of Transport ☒ Client ATL ☐ CA OverN ☐ FedEx Other: _____		1. CHILLED ☒ 4.0°C ☐ N ☐ 4. SEALED ☐ N ☐ 2. HEADSPACE (VOA) ☐ Y ☐ N ☐ 5. # OF SPLS MATCH COC ☒ Y ☐ N ☐ 3. CONTAINER INTACT ☒ Y ☐ N ☐ 6. PRESERVED ☒ Y ☐ N ☐			
Client: <u>Cordano Are</u> Attention: <u>Andrew Stuart</u> Project Name: <u>Mayland Square</u>		Address: <u>2925 E. Patrick Lane, Suite 100</u> City: <u>Las Vegas</u> State: <u>NV</u> Zip Code: <u>89120</u> Tel: <u>702-798-5750</u> Fax: _____		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.			
Relinquished by: (Signature and Printed Name) <u>[Signature]</u> Norman Becerra Date: <u>11/9/12</u> Time: <u>1705</u>		Received by: (Signature and Printed Name) <u>[Signature]</u> Date: <u>11/12/12</u> Time: <u>402</u>		Special Instructions/Comments: _____			
Relinquished by: (Signature and Printed Name) <u>[Signature]</u> Dwight Kinkamen Date: <u>11/12/12</u> Time: <u>402</u>		Received by: (Signature and Printed Name) <u>[Signature]</u> Date: <u>11/12/12</u> Time: <u>402 PM</u>		Special Instructions/Comments: _____			
Relinquished by: (Signature and Printed Name) <u>[Signature]</u> Date: <u>11/12/12</u> Time: <u>403 PM</u>		Received by: (Signature and Printed Name) <u>[Signature]</u> Date: <u>11/12/12</u> Time: <u>623</u>		Special Instructions/Comments: _____			
I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <u>Norman Becerra</u> Date: <u>11/9/12</u> Print Name: _____ Signature: _____ City: <u>Las Vegas</u> State: <u>NV</u> Zip: <u>89120</u>		Bill To: _____ Attn: <u>[Signature]</u> Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Circle or Add Analysts Requested 820B (Volatiles) 8015M - GRO 8015B - DRO/PRO WATER GROUND WATER WASTEWATER SPECIFY APPROPRIATE MATRIX			
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): Sample: \$2.00 / sample /mo (after 45 days) Records: \$1/ATL workorder /mo (after 1 year)		Sample Description Lab No. Sample ID / Location Time 11000096-1 mw-34 11/8 1309 -2 mw-34 Duplicate 11/8 1309 -3 mw-35 11/8 1222 -4 mw-36 11/8 1122 -5 mw-37 11/8 1009 -6 mw-38 11/8 902 -7 mw-39 11/9 752 -8 mw-39 Duplicate 11/9 752 -9 mw-40CMT-30 11/9 946 -10 mw-40CMT-35 11/9 1054		QA/QC RTNE CT SWRCB Logcode OTHER REMARKS			
TAT starts 8AM the following day if samples received after 3 PM TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C I=7m(Ac) O=NaOH T=Na ₂ S ₂ O ₈							

CHAIN OF CUSTODY RECORD

Page 2 of 3

 Advanced Technology Laboratories INC. 3151-3153 W. Post Rd. Las Vegas, NV 89118 Tel: (702) 307-2659 • Fax: (702) 307-2691		FOR LABORATORY USE ONLY																																																																	
P.O. #: _____ Date: _____ Logged By: _____		Method of Transport: ☐ Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____																																																																	
Client: <u>Cardno Ave</u> Attention: <u>Andrew Stuart</u> Project Name: <u>Marland Spore</u>		Sample Condition Upon Receipt: 1. CHILLED ☐ Y ☐ N ☐ 4. SEALED ☐ Y ☐ N ☐ 2. HEADSPACE (VOA) ☐ Y ☐ N ☐ 5. # OF SPLS MATCH COC ☐ Y ☐ N ☐ 3. CONTAINER INTACT ☐ Y ☐ N ☐ 6. PRESERVED ☐ Y ☐ N ☐																																																																	
Address: <u>2925 E. Patrick Ln. Suite 100</u> City: <u>Las Vegas</u> State: <u>NV</u> Zip Code: <u>89120</u> Project #: <u>085426200001</u> Sampler: <u>Norman Beaton</u>		Tel: <u>708-5750</u> Fax: _____																																																																	
Relinquished by: (Signature and Printed Name) <u>Norman Beaton</u> Date: <u>11/9/12</u> Time: <u>1705</u>		Received by: (Signature and Printed Name) <u>Andrew Stuart</u> Date: <u>11/12/12</u> Time: <u>402</u>																																																																	
Relinquished by: (Signature and Printed Name) <u>Dwight K. Kunkun</u> Date: <u>11/12/12</u> Time: <u>402</u>		Received by: (Signature and Printed Name) <u>Andrew Stuart</u> Date: <u>11/12/12</u> Time: <u>402PM</u>																																																																	
Relinquished by: (Signature and Printed Name) <u>Norman Beaton</u> Date: <u>11/12/12</u> Time: <u>423PM</u>		Received by: (Signature and Printed Name) <u>Andrew Stuart</u> Date: <u>11/12/12</u> Time: <u>1623</u>																																																																	
I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitted: <u>Norman Beaton</u> Date: <u>11/9/12</u> Print Name: _____ Signature: _____		Send Report To: <u>Andrew Stuart</u> Attn: _____ Co: <u>Cardno Ave</u> Address: <u>2925 E. Patrick Ln. Suite 100</u> City: <u>Las Vegas</u> State: <u>NV</u> Zip: <u>89120</u>																																																																	
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LAB USE ONLY: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Lab No.</th> <th>Sample ID / Location</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>1000896-11</td><td>MW-40CMT-40</td><td>11/9</td><td>1200</td></tr> <tr><td>-12</td><td>MW-40CMT-45</td><td>11/9</td><td>1259</td></tr> <tr><td>-13</td><td>MW-40CMT-50</td><td>11/9</td><td>1356</td></tr> <tr><td>-14</td><td>MW-40CMT-55</td><td>11/9</td><td>1447</td></tr> <tr><td>-15</td><td>MW-40CMT-60</td><td>11/9</td><td>1559</td></tr> <tr><td>-16</td><td>Trip Blank</td><td>11/8</td><td>739</td></tr> <tr><td>-17</td><td>Field Blank</td><td>11/8</td><td>1050</td></tr> <tr><td>-18</td><td>Equipment Blank</td><td>11/8</td><td>1024</td></tr> <tr><td>-19</td><td>Trip Blank</td><td>11/9</td><td>646</td></tr> <tr><td>-20</td><td>Field Blank</td><td>11/9</td><td>1304</td></tr> </tbody> </table>		Lab No.	Sample ID / Location	Date	Time	1000896-11	MW-40CMT-40	11/9	1200	-12	MW-40CMT-45	11/9	1259	-13	MW-40CMT-50	11/9	1356	-14	MW-40CMT-55	11/9	1447	-15	MW-40CMT-60	11/9	1559	-16	Trip Blank	11/8	739	-17	Field Blank	11/8	1050	-18	Equipment Blank	11/8	1024	-19	Trip Blank	11/9	646	-20	Field Blank	11/9	1304	SPECIFY APPROPRIATE MATRIX: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Container(s)</th> <th>TAT #</th> <th>Type</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td>WATER</td><td>3</td><td>✓</td><td></td></tr> <tr><td>GROUND WATER</td><td></td><td></td><td></td></tr> <tr><td>WASTEWATER</td><td></td><td></td><td></td></tr> <tr><td>SOIL</td><td></td><td></td><td></td></tr> </tbody> </table>		Container(s)	TAT #	Type	REMARKS	WATER	3	✓		GROUND WATER				WASTEWATER				SOIL			
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QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ☐ OTHER ☐		Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₈																																																																	

CHAIN OF CUSTODY RECORD

Page 3 of 3

 Advanced Technology Laboratories INC. 3151-3153 W. Post Rd. Las Vegas, NV 89118 Tel: (702) 307-2659 • Fax: (702) 307-2691		FOR LABORATORY USE ONLY			
P.O. #: _____ Logged By: _____ Date: _____		Method of Transport ☐ Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____			
Sample Condition Upon Receipt 1. CHILLED Y ☐ N ☐ 4. SEALED Y ☐ N ☐ 2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐ 3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐		Address: <u>2925 E. Patrick Ln Suite 200</u> Tel: <u>798 5750</u> City: <u>Las Vegas</u> State: <u>NV</u> Zip Code: <u>89120</u>			
Project Name: <u>Maryland Squire</u> Project #: <u>085-42620-0001</u>		Sampler: <u>Norman Becerra</u> I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.			
Relinquished by: <u>Andrew Stuart</u> Date: <u>11/9/12</u> Time: <u>1705</u> Relinquished by: <u>Dwight Blankenship</u> Date: <u>11/12/12</u> Time: <u>402</u> Relinquished by: <u>Norman Becerra</u> Date: <u>11/12/12</u> Time: <u>423 pm</u>		Received by: <u>Norman Becerra</u> Date: <u>11/12/12</u> Time: <u>402 pm</u> Received by: <u>Norman Becerra</u> Date: <u>11/12/12</u> Time: <u>402 pm</u> Received by: <u>Norman Becerra</u> Date: <u>11/12/12</u> Time: <u>1623</u>			
I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <u>Norman Becerra</u> Date: <u>11/9/12</u> Print Name: _____ Signature: _____ City: <u>Las Vegas</u> State: <u>NV</u> Zip: <u>89120</u>		Bill To: _____ Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____			
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): Sample: \$2.00 / sample /mo (after 45 days) Records: \$1 /ATL workorder /mo (after 1 year)		Circle or Add Analysis(es) Requested: 8260B (Volatiles) ☒ 8015M - GRO ☒ 8015B - DR/ORO ☒ 4 VOC's ☒ 8260B ☒ SOIL ☒ WATER ☒ GROUND WATER ☒ WASTEWATER ☒			
LAB USE ONLY: Lab No. _____ Sample ID / Location _____ Sample Description _____ <u>100899C-21 Equipment Blank</u>		TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays Container Types: T=Tube V=VOA L=Liter P=Plastic M=Metal G=Glass B=Bedlar J=Jar			
TAT starts 8AM the following day if samples received after 3 PM		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(Ac) ₂ O=NaOH T=Na ₂ S ₂ O ₃			

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 11/12/2012

Workorder: N008896

Rep sample Temp (Deg C): 4.0

IR Gun ID: 1

Temp Blank: ☐ Yes ☒ No

Carrier name: ATL

Last 4 digits of Tracking No.: na

Packing Material Used: None

Cooling process: ☒ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☒ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Sampler's name present in COC? | Yes ☒ | No ☐ | |
| 6. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 7. Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| 8. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 9. Sample containers intact? | Yes ☒ | No ☐ | |
| 10. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 11. All samples received within holding time? | Yes ☒ | No ☐ | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes ☒ | No ☐ | NA ☐ |
| 13. Water - VOA vials have zero headspace? | Yes ☒ | No ☐ | NA ☐ |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes ☐ | No ☐ | NA ☒ |
| 15. Did the bottle labels indicate correct preservatives used? | Yes ☒ | No ☐ | NA ☐ |
| 16. Were there Non-Conformance issues at login? | Yes ☐ | No ☐ | NA ☒ |
| Was Client notified? | Yes ☐ | No ☐ | NA ☒ |

Comments:

Checklist Completed B

MBC

11/13/12

Reviewed By:

[Signature]