

Second Quarter 2013 Groundwater Monitoring and Sampling Report

Maryland Square PCE Site
3661 South Maryland Parkway
Las Vegas, Nevada
Facility ID: H-000086

Cardno ATC Project No. 085.42620.0001



Prepared for
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July 26, 2013

Executive Summary

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Los Angeles, California 90017

Re: Second Quarter 2013 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 Second Quarter 2013

Cardno ATC is currently performing quarterly monitoring and sampled 33 of the 57 site groundwater monitoring wells.

Current Phase of Project:	<u>Monitoring and Sampling</u>
Frequency of Sampling:	<u>Groundwater: Select Wells Quarterly (Semi-annual for 2013)</u>
Frequency of Monitoring:	<u>Groundwater: Select Wells Quarterly (Semi-annual for 2013)</u>
Purge Water Removed This Quarter:	<u>37.85 gallons</u>
Approximate Depth to Groundwater:	<u>22.76 ft btoc</u>
Groundwater Gradient:	<u>Site Monitoring Network: 0.012 feet/foot</u>
Groundwater Flow Direction:	<u>Site Monitoring Network: East</u>
Groundwater Analytical Methods:	<u>VOCs by EPA 8260B, metals by EPA 6020, and hexavalent chromium (Cr(VI)) by EPA 218.6</u>
Monitoring Wells Sampled with PCE Concentrations Greater than 5.0 µg/L:	<u>25 of 33 monitoring wells</u>
Maximum PCE Concentration (µg/L):	<u>5,500 (MW-14I)</u>

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. Mann-Kendall Trend Tests for Plume Stability are included in Appendix C.

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1 Background

The Maryland Square PCE Site (site) is located at 3661 South Maryland Parkway in Las Vegas, Nevada. The site is located within a retail shopping center (parent parcel) located at the northwest corner of Maryland Parkway and Twain Avenue and within the Southeast $\frac{1}{4}$ of the Northeast $\frac{1}{4}$ of Section 15, Township 21 South, Range 61 East. The parent parcel is designated as assessor's parcel number (APN) 162-15-602-009 and is a 6.57-acre tract of land. The shopping center previously included a dry cleaning facility, Al Phillips the Cleaner. Al Phillips the Cleaner operated at the site from 1969 through 2000.

Surrounding properties consist primarily of commercial and residential developments. The Boulevard Mall lies directly to the east of the site across South Maryland Parkway. Beyond the mall is a residential neighbourhood and a golf course. South Maryland Parkway is located to the east of the site and East Twain Avenue is located south of the site.

As a result of a property transaction, in November of 2000, 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).

After the initial discovery, from 2000 to 2004 multiple soil and groundwater samples were taken and monitoring wells were installed both at the site and extending on to the Boulevard Mall property to try and determine the extent of the PCE plume. The efforts failed to find the full eastern extent of the plume.

In February 2004, Al 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.

Starting in March 2005, monitoring wells started to be placed east of the Boulevard Mall property in the residential neighbourhood. PCE concentrations in these wells were still above the MCL levels of 5 $\mu\text{g/L}$ and so the eastern extent of the PCE plume was still not defined. The discovery the plume migration into the residential area raised concerns of possible vapour intrusion affecting residents in the neighbourhood. 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 ($\mu\text{g/m}^3$) at SVB-14.

In July 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. Converse continued with monitoring until July 2010, when 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.

On December 27, 2010, a permanent injunction was issued by the U.S District Court that 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.

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

Additional information, including the full administrative record detailing correspondence with NDEP can be found at http://ndep.nv.gov/pce/maryland_square.htm and clicking on The Administrative Record tab.

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 Second Quarter 2013 sampling event, which prescribes sampling at 33 of the 57 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 2013 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 2013 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 newly installed wells MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3)
- Second Quarter – MW-1, MW-5, MW-6, MW-9, MW-14, MW-17, MW-27, MW-34 through MW-40, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3 (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, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3 (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, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3 (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 well construction of MW-40 CMT. CMT is a product manufactured by Solinst 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. The method used for groundwater sampling all depths of MW-40 CMT was a 3/8 inch Model 408M Micro Double Valve Pump. The double-valve pump is a pneumatic pump which was set to the bottom of each well depth, and pumped at each depth until 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-19I, MW-20, MW-27, MW-34, and MW-40 CMT-60.

Laboratory analysis of each groundwater sample produced quantitative data within quality assurance standards, with the exception of the analysis for hexavalent chromium from MW-19I. The sample for MW-19I was purple, most likely due saturation from the prior nearby potassium permanganate pilot test, and therefore the analysis could not be run. Laboratory reasoning for not analysing MW-19I for hexavalent chromium can be found with the laboratory analytical reports in Appendix B. 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 second 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 15.05 feet bgs (MW-38) to 27.85 feet bgs (MW-19D2). The average groundwater elevation of monitored wells was 22.76 feet bgs. There was a 0.52 foot decrease when comparing similar monitoring wells that had groundwater measurements for both the First Quarter 2013 and Second Quarter 2013 (excluding MW-6D). Based on the second quarter results, the local hydraulic gradient across the site is generally toward the east.

DO readings for across the site ranged from 1.10 to 5.88 milligrams per liter (mg/L). ORP readings from across the site ranged from 2.9 to 606.9 millivolts (mV).

2.3 Groundwater Analytical Results

On June 10th, 11th, 12th, 14th, and 17th, 2013, Cardno ATC mobilized to the site to obtain groundwater samples from the existing groundwater monitoring wells (MW-1, MW-5, MW-6, MW-9, MW-14, MW-17, MW-27, MW-34 through MW-40, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3) 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 for samples collected, the analysis of metals (arsenic, chromium, and manganese) using EPA method 6020 for wells MW-19, MW-19I, MW-20, and all depths of MW-40 CMT, and the analysis of hexavalent chromium using EPA method 218.6 for wells MW-19, MW-20, and the depths of MW-40 CMT.

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 Plume Stability Test

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-1	20.69	1971.32	240	<0.50	Decreasing
MW-2	NM	NM	NS	NS	Decreasing
MW-3	NM	NM	NS	NS	No Trend
MW-5	20.00	1968.69	600	2.9	Increasing
MW-6	20.58	1976.54	2,400	7.7	Increasing
MW-6D1	20.20	1968.52	<0.50	<0.50	N/A ¹
MW-6D2	20.40	1968.32	<0.50	<0.50	N/A ¹
MW-6D3	24.40	1964.32	<0.50	<0.50	N/A ¹
MW-7	NM	NM	NS	NS	Increasing
MW-8	NM	NM	NS	NS	Decreasing
MW-9	20.91	1971.34	9.8	<0.50	Decreasing
MW-10	NM	NM	NS	NS	No Trend
MW-11	NM	NM	NS	NS	N/A ²
MW-12	NM	NM	NS	NS	No Trend
MW-13	NM	NM	NS	NS	Decreasing
MW-14	19.44	1967.89	1,300	2.1	Decreasing
MW-14I	19.95	NM	5,500	27	N/A ¹
MW-15	NM	NM	NS	NS	Stable
MW-16	NM	NM	NS	NS	N/A ²
MW-17	20.30	1970.74	150	<0.50	Decreasing
MW-18	NM	NM	NS	NS	Decreasing
MW-19	27.46	1953.67	530	3.4	Stable
MW-19I	26.42	1942.13	<0.50	<0.50	N/A ¹
MW-19D1	27.73	NM	690	4.2	N/A ¹
MW-19D2	27.85	NM	<0.50	<0.50	N/A ¹
MW-19D3	25.53	NM	0.68	<0.50	N/A ¹
MW-20	27.20	1952.62	660	2.1	Decreasing
MW-20D1	26.17	NM	110	<0.50	N/A ¹
MW-20D2	26.23	NM	64	<0.50	N/A ¹

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-20D3	26.17	NM	<0.50	<0.50	N/A ¹
MW-21	NM	NM	NS	NS	Decreasing
MW-22	NM	NM	NS	NS	N/A ²
MW-23	NM	NM	NS	NS	Decreasing
MW-24	NM	NM	NS	NS	Probably Decreasing
MW-25	NM	NM	NS	NS	Decreasing
MW-26	NM	NM	NS	NS	Decreasing
MW-27	20.37	1923.78	300	1.1	Probably Increasing (Increasing 1 st Quarter 2013)
MW-28	NM	NM	NS	NS	Decreasing
MW-29	NM	NM	NS	NS	Decreasing
MW-30	NM	NM	NS	NS	Decreasing
MW-31	NM	NM	NS	NS	No Trend
MW-32	NM	NM	NS	NS	Decreasing
MW-33	NM	NM	NS	NS	Decreasing
MW-34	19.32	1974.56	380	0.90	Decreasing
MW-35	20.30	1971.07	250	<0.50	Decreasing (Probably Decreasing 1 st Quarter 2013)
MW-36	20.75	1934.55	110	0.52	Stable (No Trend 1 st Quarter 2013)
MW-37	19.33	1910.65	37	<0.50	Stable
MW-38	15.05	1893.33	7.8	<0.50	Increasing (Stable 1 st Quarter 2013)
MW-39	25.63	1941.92	210	0.83	Stable (No Trend 1 st Quarter 2013)
MW-40 CMT-30	26.15	NM	10	<0.50	N/A ¹
MW-40 CMT-35	26.15	NM	3.6	<0.50	N/A ¹
MW-40 CMT-40	26.18	NM	53	0.73	N/A ¹
MW-40 CMT-45	26.14	NM	47	<0.50	N/A ¹
MW-40 CMT-50	26.14	NM	64	<0.50	N/A ¹
MW-40 CMT-55	26.12	NM	200	0.57	N/A ¹
MW-40 CMT-60	26.16	NM	1,000	5.9	N/A ¹

Notes: ¹Unable to evaluate trend without at least four sampling events of data

²Mann-Kendall Trend Test was not utilized on MW-11, MW-16, and MW-22 because they had historically been reported under laboratory detection limits

NM = Not Measured, survey not completed or dtw measurements not taken

Amsl: Above Mean Sea Level

The groundwater locations selected for quarterly monitoring represent the most recently installed wells and wells that cover the groundwater conditions at the Maryland Square site. The range of groundwater elevations

spanned from 1893.33 feet above mean sea level (amsl) (MW-38) to 1974.56 feet amsl (MW-34). Groundwater elevations are summarized in Tables 1, 1-A, and 2-A.

Groundwater elevations decreased across groundwater monitoring wells located on the Maryland Square property by 0.32 feet compared with the same wells from the First Quarter 2013 data (last time all on-site monitoring wells were sampled). Groundwater elevations across the Boulevard Mall property decreased by an average of 2.72 feet, mainly due to the three nested wells of MW-6D1, MW-6D2, and MW-6D3 which decreased by 3.91 feet, 5.46 feet, and 10.36 feet, respectively. Finally, groundwater elevations decreased across groundwater monitoring wells located on the surrounding streets and golf course area by 1.85 feet when compared with the First Quarter 2013 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 all monitoring wells except MW-6D1, MW-6D2, MW-19I, MW-19D2, and MW-20D3. PCE was detected at concentrations ranging from 0.68 µg/L (MW-19D3) to 5,500 µg/L (MW-14I). PCE concentrations identified by the laboratory in the groundwater samples collected from wells MW-1, MW-5, MW-6, MW-9, MW-14, MW-14I, MW-17, MW-19, MW-19D, MW-20, MW-20D1, MW-20D2, MW-27, MW-34 through MW-39, MW-40 CMT-30, and MW-40 CMT-40 through MW-40 CMT-60 exceeded the maximum contaminant levels (MCL) for PCE in groundwater of 5 µg/L.

Duplicate samples were collected from MW-19I, MW-20, MW-27, MW-34, and MW-40 CMT-60. In MW-19I concentrations of PCE were both below laboratory reporting limits so no relative percent difference (RPD) could be calculated. In MW-20 concentrations of PCE were measured at 660 µg/L and 630 µg/L, a RPD of 4.7%. In MW-27 concentrations of PCE were measured at 300 µg/L and 340 µg/L, a RPD of 12.5%. In MW-34 concentrations of PCE were measured at 380 µg/L and 360 µg/L, a RPD of 5.4%. In MW-40 CMT-60, PCE concentrations were measured at 1,000 µg/L and 870 µg/L, a RPD of 13.9%. The duplicate sample results do not show significant statistical variation based on the levels of the concentrations.

The Mann-Kendall Trend Test for Plume Stability was also used to determine whether the plume was increasing or decreasing at each particular well. A confidence factor greater than 95% was needed to state that PCE concentration at a given well was increasing or decreasing. A confidence factor between 90% and 95% was needed to state that PCE concentration at a given well was probably increasing or probably decreasing. Data was gathered for every past sampling event at each well, and if a well did not have at least four sampling events then it was not included. Results of the Mann-Kendall Test showed that the PCE plume was decreasing at twenty wells, increasing at four wells, probably decreasing at two wells, stable at five wells, and showed no trend at four wells (seven including MW-11, MW-16, and MW-22 which weren't analysed due to historically low readings).

PCE concentrations and plume size also varied significantly based on the vertical zone that samples were collected. There are currently three approximate zones that monitoring wells are grouped in at the site. The upper zone contains the majority of monitoring wells, and covers the wells sampled from 25 feet bgs to 40 feet bgs, the intermediate zone covers wells sampled from 40 feet bgs to 55 feet bgs, and the lower zone covers wells sampled at greater than 55 feet bgs.

Trichloroethene (TCE) was detected at concentrations ranging from 0.52 µg/L to 27 µg/L in the groundwater samples collected from wells MW-5, MW-6, MW-14, MW-14I, MW-19, MW-19D1, MW-20, MW-27, MW-34, MW-36, MW-39, MW-40 CMT-40, MW-40 CMT-55, and MW-40 CMT-60. The detected concentrations were below the MCL for TCE in groundwater of 5 µg/L, with the exception of MW-6 (7.7 µg/L), MW-14I (27 µg/L), and MW-40 CMT-60 (5.9 µg/L).

Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-5 (0.95 µg/L), MW-6 (1.3 µg/L), MW-14I (3.8 µg/L), and MW-40 CMT-60 (3.6 µg/L). 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 presence of small amounts of TCE and cis-1,2 DCE suggests that reductive dechlorination is not significant at the site.

Metals and Hexavalent Chromium were also analyzed this quarter, to compare with concentrations obtained by Tetra Tech after recent pilot tests were conducted using potassium permanganate (KMnO₄) and PulseOx. The following table shows Tetra Tech data along with concentrations detected during Cardno ATC's second quarter sampling.

Table 2: Summary of Metals Concentrations in Select Wells, 2nd Quarter 2013

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-19 (KMnO ₄ Pilot Test, upgradient)	03/08/13	520	7.4	170	17	NA
	03/12/13	390	2	120,000	25	NA
	03/27/13	14	0.33	43,000	130	NA
	04/04/13	110	2	7,100	79	NA
	04/11/13	220	1.8	5,400	44	NA
	05/02/13	810	2.7	460	9.7	NA
	06/14/13	530	2.3	68	4.6	2.5
MW-19I (KMnO ₄ Pilot Test, downgradient)	03/08/13	710	2.0	ND	1.6	NA
	03/12/13	280	1.7	2,700	14	NA
	03/26/13	9.4	0.93	27,000	44	NA
	04/04/13	3.5	3	4,700	170	NA
	04/11/13	1.7	0.19	9,400	52	NA
	05/02/13	0.61	1.2	20,000	43	NA
	06/12/13	<0.50	0.34	62,000	87	NA*
MW-20 (PulseOx Pilot Test, upgradient)	03/26/13	290	4.7	NA	4.3	NA
	04/10/13	480	5.6	NA	9.7	NA
	04/23/13	850	6.1	NA	8.8	NA
	05/02/13	470	4	NA	2.7	NA
	06/12/13	660	2.4	<0.50	1.6	1.1
MW-40 CMT-30 (PulseOx Pilot Test, downgradient)	03/25/13	4.7	4	NA	ND	NA
	04/10/13	0.86	7.2	NA	65	NA
	04/23/13	8.8	4.6	NA	180	NA
	05/01/13	1.2	5.9	NA	210	NA
	06/14/13	10	3.9	<0.50	140	140
MW-40 CMT-35 (PulseOx Pilot Test, downgradient)	03/25/13	14	14	NA	ND	NA
	04/10/13	6.9	6.9	NA	ND	NA
	04/23/13	2.6	2.6	NA	5.7	NA
	05/01/13	3.5	3.5	NA	25	NA
	06/14/13	3.6	4	250	2.9	1.1
MW-40 CMT-40 (PulseOx Pilot Test, downgradient)	03/25/13	270	2.5	NA	3.2	NA
	04/10/13	94	2.5	NA	6.6	NA
	04/23/13	150	2.4	NA	20	NA
	05/01/13	96	3.3	NA	38	NA
	06/14/13	53	3.0	26	9.8	22
MW-40 CMT-45 (PulseOx Pilot Test, downgradient)	03/25/13	310	2.4	NA	ND	NA
	04/10/13	120	2.0	NA	15	NA
	04/23/13	100	1.8	NA	41	NA
	05/01/13	78	2.7	NA	47	NA
	06/17/13	47	1.6	<0.50	39	43
MW-40 CMT-50 (PulseOx Pilot Test, downgradient)	03/25/13	280	4.1	NA	ND	NA
	04/10/13	110	2.2	NA	14	NA
	04/23/13	120	2	NA	38	NA
	05/01/13	79	3.1	NA	41	NA
	06/17/13	64	2.2	<0.50	8.2	8.9

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-40 CMT-55 (PulseOx Pilot Test, downgradient)	03/25/13	390	1.5	NA	ND	NA
	04/10/13	570	1.6	NA	3.9	NA
	04/23/13	510	1.5	NA	10	NA
	05/01/13	430	2.7	NA	12	NA
	06/17/13	200	1.6	<0.50	26	27
MW-40 CMT-60 (PulseOx Pilot Test, downgradient)	03/25/13	1,200	1.8	NA	ND	NA
	04/10/13	1,200	1.7	NA	ND	NA
	04/23/13	1,400	1.5	NA	1.1	NA
	05/01/13	1,200	2.7	NA	2	NA
	06/17/13	1,000	1.4	<0.50	5.7	6.6

Notes: NA=Not Analyzed
 ND=Non Detect
 Shaded row represents baseline test
 *=Sample could not be analysed for Cr(VI) because sample was saturated with potassium permanganate

The primary metal of concern was the effects of the oxidant on chromium concentrations in groundwater. Cardno ATC performed groundwater testing after the completion of the pilot testing and found elevated levels of chromium in the tested wells, except for MW-19 and MW-20, compared to before pilot testing. Both MW-19 and MW-20 are located upgradient from the pilot testing however. Cardno ATC also performed analysis of hexavalent chromium (Cr(VI)), because the oxidizing effect of the two treatments has the potential to change the non-toxic, non- mobile Cr(III) into the acutely toxic, mobile Cr(VI). Hexavalent chromium levels ranged from 1.1 µg/L to 140 µg/L. The detected concentration of total chromium in MW-40 CMT-30 was above the MCL of 100 µg/L in groundwater. No MCL has been established for CR(VI), but NDEP has set a basic comparison level (BCL) of 110 µg/L in groundwater, which MW-40 CMT-30 exceeds.

3 Summary

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

- Tetrachloroethene (PCE) was detected at concentrations ranging from 0.68 µg/L to 5,500 µg/L. The MCL for PCE in groundwater is 5 µg/L. PCE concentrations are summarized in the following table:

Table 3: Summary of PCE Concentrations in Monitoring Wells across the Site, 2nd Quarter 2013

Non Detect (<0.50 µg/L)	>0.5 µg/L to <5.0 µg/L	5.0 µg/L to 5,500 µg/L	
MW-6D1	MW-19D3	MW-1	MW-34
MW-6D2	MW-40 CMT-35	MW-5	MW-35
MW-6D3		MW-6	MW-36
MW-19I		MW-9	MW-37
MW-19D2		MW-14	MW-38
MW-20D3		MW-14I	MW-39
		MW-17	MW-40 CMT-30
		MW-19	MW-40 CMT-40
		MW-19D1	MW-40 CMT-45
		MW-20	MW-40 CMT-50
		MW-20D1	MW-40 CMT-55
		MW-20D2	MW-40 CMT-60
		MW-27	

- Trichloroethene (TCE) was detected at concentrations ranging from 0.52 µg/L to 27 µg/L. The MCL for TCE in groundwater is 5 µg/L. TCE concentrations are summarized in the following table:

Table 4: Summary of TCE Concentrations in Monitoring Wells across the Site, 2nd Quarter 2013

Non Detect (<0.50 µg/L)		>0.5 µg/L to <5.0 µg/L	5.0 µg/L to 27 µg/L
MW-1	MW-20D2	MW-5	MW-6
MW-6D1	MW-20D3	MW-14	MW-14I
MW-6D2	MW-35	MW-19	MW-40 CMT-60
MW-6D3	MW-37	MW-19D1	
MW-9	MW-38	MW-20	
MW-17	MW-40 CMT-30	MW-27	
MW-19I	MW-40 CMT-35	MW-34	
MW-19D2	MW-40 CMT-45	MW-36	
MW-19D3	MW-40 CMT-50	MW-39	
MW-20D1		MW-40 CMT-55	

- Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-5 (0.95 µg/L), MW-6 (1.3 µg/L), MW-14I (3.8 µg/L), and MW-40 CMT-60 (3.6 µg/L). The detected concentrations were below the MCL for DCE in groundwater of 70 µg/L.
- Hexavalent Chromium (Cr(VI)) was detected in monitoring wells MW-19 (2.5 µg/L), MW-20 (1.1 µg/L), MW-40 CMT-30 (140 µg/L), MW-40 CMT-35 (1.1 µg/L), MW-40 CMT-40 (22 µg/L), MW-40 CMT-45 (43

µg/L), MW-40-CMT-50 (8.9 µg/L), MW-40 CMT-55 (27 µg/L), and MW-40 CMT-60 (6.6 µg/L). NDEP has set a basic comparison level (BCL) of 110 µg/L in groundwater, which MW-40 CMT-30 exceeds.

3.1 Recommendations

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

NDEP, in a letter dated May 29, 2013, concurred with the recommended locations for three new monitoring wells that would aid in developing the northern and eastern border of the plume. The letter stated that the three wells were to be installed by August 30, 2013. Cardno ATC requests that this deadline be extended to September 30, 2013 to align with the end of the quarter.

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 Second Quarter 2013 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) 990-9300.

Sincerely,

Cardno ATC



Adam Katlein
Staff Scientist



Andrew D. Stuart
Senior Project Manager
Nevada Certified Environmental Manager
No. EM-1905 (Expires 01/26/15)

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 of Well Installation	Date of Sampling	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)
Project Monitoring Wells Located on Maryland Square Property												
MW-1	Aug 00	Jun 13	1992.01	20.69	1971.32	10-30	1.72	2.5	78.4	240	<0.50	<0.50
MW-7	Sep 02	Jun 13	1989.78	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-8	Sep 02	Jun 13	1991.71	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-9	Sep 02	Jun 13	1992.25	20.91	1971.34	48.5-50	2.31	0.9	110.3	9.8	<0.50	<0.50
MW-12	Sep 02	Jun 13	1995.95	NM	NM	13.5-33.5	NM	NM	NM	NS	NS	NS
MW-17	Nov 03	Jun 13	1991.04	20.30	1970.74	15-30	1.10	2.4	91.1	150	<0.50	<0.50
MW-34	Dec 11	Jun 13	1993.88	19.32	1974.56	--	1.94	2.6	63.4	380	0.90	<0.50
MW-35	Dec 11	Jun 13	1991.37	20.30	1971.07	--	3.87	2.5	83.6	250	<0.50	<0.50
Project Monitoring Wells Located on Boulevard Mall Property												
MW-2	Oct 00	Jun 13	1983.53	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-3	Oct 00	Jun 13	1983.81	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-4	Oct 00	Mar 12	1989.86	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-5	Oct 00	Jun 13	1988.69	20.00	1968.69	10-32	4.70	2.3	125.9	600	2.9	0.95
MW-6	Oct 00	Jun 13	1988.12	20.58	1967.54	10-32	3.57	2.2	129.6	2,400	7.7	1.3
MW-6D1	Jan 13	Jun 13	NM	20.20	1968.52	50-60	5.19	0.4	280.4	<0.50	<0.50	<0.50
MW-6D2	Jan 13	Jun 13	NM	20.40	1968.32	80-90	5.88	0.4	141.8	<0.50	<0.50	<0.50

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

Well ID	Date of Well Installation	Date of Sampling	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)
Project Monitoring Wells Located on Boulevard Mall Property												
MW-6D3	Jan 13	Jun 13	NM	24.40	1964.32	100-110	2.83	0.4	154.8	<0.50	<0.50	<0.50
MW-10	Sep 02	Jun 13	1983.28	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-11	Sep 02	Jun 13	1979.87	NM	NM	13.5-33.5	NM	NM	NM	NS	NS	NS
MW-13	May 03	Jun 13	1983.31	NM	NM	9-29	NM	NM	NM	NS	NS	NS
MW-14	Nov 03	Jun 13	1987.33	19.44	1967.89	15-40	3.49	2.5	129.9	1,300	2.1	<0.50
MW-14I	Jul 12	Jun 13	NM	19.95	NM	40-55	4.23	0.9	101.1	5,500	27	3.8
MW-15	Nov 03	Jun 13	1982.74	NM	NM	15-32	NM	NM	NM	NS	NS	NS
MW-16	Nov 03	Jun 13	1980.53	NM	NM	19-32	NM	NM	NM	NS	NS	NS
MW-19	Nov 03	Jun 13	1981.13	27.46	1953.67	19-35	4.87	2.2	119.1	530	3.4	<0.50
MW-19D1	Jan 13	Jun 13	NM	27.73	NM	31-51	4.68	1.9	2.9	690	4.2	<0.50
MW-19D2	Jan 13	Jun 13	NM	27.85	NM	60-70	1.97	1.8	606.9	<0.50	<0.50	<0.50
MW-19D3	Jan 13	Jun 13	NM	25.53	NM	92-102	4.03	0.3	68.4	0.68	<0.50	<0.50
MW-19I	Jul 12	Jun 13	1968.55	26.42	1942.13	34-54	4.37	2.1	589.0	<0.50	<0.50	<0.50
MW-20	Nov 03	Jun 13	1979.82	27.20	1952.62	19-35	4.70	2.4	192.3	660	2.1	<0.50
MW-20D1	Jan 13	Jun 13	NM	26.17	NM	25-45	5.15	2.0	115.0	110	<0.50	<0.50

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

Well ID	Date of Well Installation	Date of Sampling	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)
Project Monitoring Wells Located on Boulevard Mall Property												
MW-20D2	Jan 13	Jun 13	NM	26.23	NM	55-65	4.63	0.5	107.1	64	<0.50	<0.50
MW-20D3	Jan 13	Jun 13	NM	26.17	NM	90-100	3.87	0.35	118.70	<0.50	<0.50	<0.50
MW-21	Nov 03	Jun 13	1979.25	NM	NM	19-36	NM	NM	NM	NS	NS	NS
MW-40 CMT-30	Jul 12	Jun 13	NM	26.15	NM	30-30.6	4.72	2.1	160.3	10	<0.50	<0.50
MW-40 CMT-35	Jul 12	Jun 13	NM	26.15	NM	35-35.6	4.96	2.2	126.7	3.6	<0.50	<0.50
MW-40 CMT-40	Jul 12	Jun 13	NM	26.18	NM	40-40.6	3.47	2.1	134.9	53	0.7	<0.50
MW-40 CMT-45	Jul 12	Jun 13	NM	26.14	NM	45-45.6	4.19	2.0	203.3	47	<0.50	<0.50
MW-40 CMT-50	Jul 12	Jun 13	NM	26.14	NM	50-50.6	5.67	2.1	165.3	64	<0.50	<0.50
MW-40 CMT-55	Jul 12	Jun 13	NM	26.12	NM	55-55.6	4.25	2.0	178.3	200	0.6	<0.50
MW-40 CMT-60	Jul 12	Jun 13	NM	26.16	NM	60-60.6	4.92	2.1	220.2	1,000	5.9	3.6
Project Monitoring Wells Located on Surrounding Streets and Golf Course												
MW-18	Nov 03	Jun 13	1962.90	NM	NM	5-26	NM	NM	NM	NS	NS	NS
MW-22	Mar 05	Jun 13	1975.19	NM	NM	15-36	NM	NM	NM	NS	NS	NS
MW-23	Mar 05	Jun 13	1962.45	NM	NM	5-26	NM	NM	NM	NS	NS	NS
MW-24	Mar 05	Jun 13	1960.82	NM	NM	5-26	NM	NM	NM	NS	NS	NS
MW-25	Mar 05	Jun 13	1959.29	NM	NM	5-26	NM	NM	NM	NS	NS	NS

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

Well ID	Date of Well Installation	Date of Sampling	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)
Project Monitoring Wells Located on Surrounding Streets and Golf Course												
MW-26	Mar 06	Jun 13	1953.45	NM	NM	10-36	NM	NM	NM	NS	NS	NS
MW-27	Mar 06	Jun 13	1944.15	20.37	1923.78	10-36	2.09	2.6	95.4	300	1.1	<0.50
MW-28	Oct 07	Jun 13	1943.07	NM	NM	15-36	NM	NM	NM	NS	NS	NS
MW-29	Oct 07	Jun 13	1932.35	NM	NM	15-36	NM	NM	NM	NS	NS	NS
MW-30	Oct 07	Jun 13	1940.59	NM	NM	20-41	NM	NM	NM	NS	NS	NS
MW-31	Mar 08	Jun 13	1937.66	NM	NM	13.5-33.6	NM	NM	NM	NS	NS	NS
MW-32	Mar 08	Jun 13	1952.90	NM	NM	13.5-33.7	NM	NM	NM	NS	NS	NS
MW-33	Mar 08	Jun 13	1950.98	NM	NM	13.5-33.8	NM	NM	NM	NS	NS	NS
MW-36	Jan 12	Jun 13	1955.30	20.75	1934.55	17-38	1.82	2.5	103.9	110	0.52	<0.50
MW-37	Jan 12	Jun 13	1929.98	19.33	1910.65	17-38	4.20	2.6	113.9	37	<0.50	<0.50
MW-38	Apr 12	Jun 13	1908.38	15.05	1893.33	15-36	3.94	2.7	116.8	7.8	<0.50	<0.50
MW-39	Apr 12	Jun 13	1967.55	25.63	1941.92	15-36	1.65	2.5	94.2	210	0.83	<0.50

Notes:

NM = Not Measured
msl = mean sea level
ND = Non Detect
NS = Not Sampled

°C = degrees Celsius
g/L = gallons per liter
mg/L = milligrams per liter
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	NS	NS	NS	NS	
	Mar 13	1992.01	20.35	1971.66	6.97	3.90	NM	0.90	24.80	2.5	59	260	<0.50	<0.50	<0.50
	Jun 13	1992.01	20.69	1971.32	7.16	3.90	NM	1.72	25.43	2.5	78	240	<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-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	NS	NS	NS	NS	
	Nov 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
	Mar 13	1983.53	19.29	1964.24	7.1	3.5	NM	2.7	23.24	2.3	205	580	2.5	1.0	<0.50
	Jun 13	1983.53	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	NS	NS	NS	NS	
	Mar 13	1983.81	20.37	1963.44	6.9	4.5	NM	1.7	25.15	2.9	153	12	<0.50	<0.50	<0.50
	Jun 13	1983.81	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	NS	NS	NS	NS	
	Mar 13	1988.69	19.69	1969.00	7.1	3.6	NM	4.4	25.23	2.3	134	530	2.3	0.67	<0.50
	Jun 13	1988.69	20.00	1968.69	7.2	3.5	NM	4.7	27.60	2.3	126	600	2.9	0.95	<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-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	
Mar 13	1988.12	20.23	1967.89	7.1	3.4	NM	3.3	24.83	2.2	100	2,600	10	2.2	<0.50	
Jun 13	1988.12	20.58	1967.54	7.3	3.4	NM	3.6	30.62	2.2	130	2,400	7.7	1.3	<0.50	
MW-6D1	Mar 13	1988.72	16.29	1972.43	7.6	0.6	NM	5.7	23.48	0.4	86	<0.50	<0.50	<0.50	<0.50
	Jun 13	1988.72	20.20	1968.52	7.5	0.7	NM	5.2	25.82	0.4	280	<0.50	<0.50	<0.50	<0.50
MW-6D2	Mar 13	1988.72	14.94	1973.78	7.6	0.6	NM	4.3	22.93	0.4	55	<0.50	<0.50	<0.50	<0.50
	Jun 13	1988.72	20.40	1968.32	7.5	0.7	NM	5.9	25.49	0.4	142	<0.50	<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-6D3	Mar 13	1988.72	14.04	1974.68	7.6	0.5	NM	0.7	22.18	0.3	29	<0.50	<0.50	<0.50	<0.50
	Jun 13	1988.72	24.40	1964.32	7.7	0.5	NM	2.8	31.09	0.4	155	<0.50	<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-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	NS	NS	NS	NS	
	Nov 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
	Mar 13	1989.78	18.47	1971.31	7.0	3.8	NM	3.4	25.22	2.5	70	10	<0.50	<0.50	<0.50
	Jun 13	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NS	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	NS	NS	NS	NS	NS
	Nov 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS
	Mar 13	1991.71	20.65	1971.06	7.0	3.5	NM	5.0	25.97	2.3	78	1.5	<0.50	<0.50	<0.50
	Jun 13	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NS	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	
Mar 13	1992.25	20.56	1971.69	7.2	1.4	NM	0.6	25.53	0.9	-0.1	6.6	<0.50	<0.50	<0.50	
Jun 13	1992.25	20.91	1971.34	7.2	1.4	NM	2.3	25.44	0.9	110	9.8	<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-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	NS	NS	NS	NS	
	Nov 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
	Mar 13	1983.28	21.36	1961.92	7.1	2.7	NM	0.7	26.34	1.7	-238	<0.50	<0.50	<0.50	<0.50
	Jun 13	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	

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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	
Mar 13	1979.87	25.81	1954.06	7.0	3.7	NM	1.2	24.43	2.4	-104	<0.50	<0.50	<0.50	<0.50	
Jun 13	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	NS	NS	NS	NS	
	Nov 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS		
	Mar 13	1995.95	16.76	1979.19	7.0	3.8	NM	2.4	25.55	2.5	46	0.65	<0.50	<0.50	<0.50	
	Jun 13	1995.95	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	NS	NS	NS	NS	
	Nov 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
	Mar 13	1983.31	18.53	1964.78	7.0	3.8	NM	1.6	22.69	2.5	159	1,300	2.8	<0.50	<0.50
	Jun 13	1983.31	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	
Mar 13	1987.33	19.12	1968.21	7.0	3.9	NM	2.6	24.10	2.5	112	1,900	2.9	<0.50	<0.50	
Jun 13	1987.33	19.44	1967.89	7.2	3.1	NM	3.5	28.28	2.5	130	1,300	2.1	<0.50	<0.50	
MW-14I	Mar 13	NM	19.52	NM	7.4	1.3	NM	4.1	24.19	0.9	95	7,200	51	4.9	<0.50
	Jun 13	NM	19.95	NM	7.5	1.4	NM	4.2	30.76	0.9	101	5,500	27	3.8	<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-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	
Mar 13	1982.74	16.41	1966.33	7.0	3.6	NM	2.9	26.24	2.3	48	2.7	<0.50	<0.50	<0.50	
Jun 13	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	NS	NS	NS	NS	
	Nov 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS		
	Mar 13	1980.53	26.86	1953.67	7.0	3.3	NM	1.7	25.33	2.2	-111	<0.50	<0.50	<0.50	<0.50	
	Jun 13	1980.53	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
	Mar 13	1991.04	19.94	1971.10	7.0	3.7	NM	1.0	23.75	2.4	54	190	<0.50	<0.50	<0.50
	Jun 13	1991.04	20.30	1970.74	7.0	3.8	NM	1.1	23.43	2.4	91	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-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	NS	NS	NS	NS	
	Nov 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
	Mar 13	1962.9	12.06	1950.84	7.1	3.6	NM	2.6	23.54	2.3	83	1,200	2.5	<0.50	<0.50
	Jun 13	1962.9	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	
Mar 13	1981.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	520	3.2	<0.50	<0.50	
Jun 13	1981.13	27.46	1953.67	7.2	3.4	NM	4.9	28.16	2.2	119	530	3.4	<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-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
	Mar 13	1968.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	710	5.2	0.74	<0.50
	Jun 13	1968.55	26.42	1942.13	7.3	3.4	NM	4.4	26.1	2.1	589	<0.50	<0.50	<0.50	<0.50
MW-19D1	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	300	2.9	<0.50	<0.50
	Jun 13	NM	27.73	NM	7.3	3.0	NM	4.7	27.42	1.9	3	690	4.2	<0.50	<0.50
MW-19D2	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	170	1.5	<0.50	<0.50
	Jun 13	NM	27.85	NM	7.4	2.7	NM	2.0	26.09	1.8	607	<0.50	<0.50	<0.50	<0.50
MW-19D3	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.50	<0.50	<0.50	<0.50
	Jun 13	NM	25.53	NM	7.7	0.5	NM	4.0	28.15	0.3	68	0.68	<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-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	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	
	Mar 13	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	290	1.8	<0.50	<0.50	
	Jun 13	1979.82	27.20	1952.62	7.17	3.70	NM	4.70	26.67	2.41	192	660	2.1	<0.50	<0.50	
MW-20D1	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	69	2.8	3.6	<0.50	
	Jun 13	NM	26.17	NM	7.29	3.05	NM	5.15	27.38	1.98	115	110	<0.50	<0.50	<0.50	
MW-20D2	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	25	<0.50	<0.50	<0.50	
	Jun 13	NM	26.23	NM	7.41	0.78	NM	4.63	25.83	0.51	107	64	<0.50	<0.50	<0.50	
MW-20D3	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.66	<0.50	<0.50	<0.50	
	Jun 13	NM	26.17	NM	7.08	0.53	NM	3.87	24.81	0.35	119	<0.50	<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-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	NS	NS	NS	NS	
	Nov 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS		
	Mar 13	1979.25	25.03	1954.22	6.9	3.7	NM	0.2	24.49	2.4	107	8.4	<0.50	<0.50	<0.50	
	Jun 13	1979.25	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
	Mar 13	1975.19	26.27	1948.92	6.9	3.9	NM	1.7	23.49	2.5	140	<0.50	<0.50	<0.50	<0.50
	Jun 13	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
	Mar 13	1962.45	15.95	1946.50	7.0	3.6	NM	1.4	23.52	2.4	107	960	2.2	<0.50	<0.50
	Jun 13	1962.45	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-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
	Mar 13	1960.82	13.62	1947.20	7.1	3.6	NM	1.8	22.77	2.3	62	1.3	<0.50	<0.50	<0.50
	Jun 13	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	NS	NS	NS	NS	
	Nov 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
	Mar 13	1959.29	18.75	1940.54	7.0	3.8	NM	2.3	23.84	2.5	127	660	0.75	<0.50	<0.50
	Jun 13	1959.29	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
	Mar 13	1953.45	16.81	1936.64	7.0	3.8	NM	2.7	24.35	2.6	118	740	0.51	<0.50	<0.50
	Jun 13	1953.45	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-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
	Mar 13	1944.15	15.33	1928.82	7.0	4.0	NM	1.8	23.16	2.6	100	450	1.0	<0.50	<0.50
	Jun 13	1944.15	20.37	1923.78	7.0	4.0	NM	2.1	25.31	2.6	95	300	1.1	<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-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
	Mar 13	1943.07	12.50	1930.57	7.0	4.1	NM	1.9	24.06	2.7	70	0.50	<0.50	<0.50	<0.50
	Jun 13	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
	Mar 13	1932.35	13.30	1919.05	7.0	4.1	NM	4.4	19.43	2.7	85	<0.50	<0.50	<0.50	<0.50
	Jun 13	1932.35	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-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
	Mar 13	1940.59	17.38	1923.21	6.9	3.3	NM	4.2	19.45	2.1	144	62	<0.50	<0.50	<0.50
	Jun 13	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
	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 13	1937.66	16.27	1921.39	6.9	4.2	NM	2.9	21.34	2.7	139	61	<0.50	<0.50	<0.50
Jun 13	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	
MW-32	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
	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	2.0	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
	Mar 13	1952.90	18.43	1934.47	7.0	3.7	NM	3.4	23.98	2.4	114	720	1.8	<0.50	<0.50
	Jun 13	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
	Mar 13	1950.98	17.25	1933.73	6.9	4.2	NM	1.9	21.50	2.7	134	<0.50	<0.50	<0.50	<0.50
	Jun 13	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
	Mar 13	1993.88	19.06	1974.82	7.1	4.0	NM	1.6	22.65	2.6	125	550	0.86	<0.50	<0.50
Jun 13	1993.88	19.32	1974.56	7.3	4.0	NM	1.9	24.03	2.6	63	380	0.90	<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
	Mar 13	1991.37	19.99	1971.38	7.1	3.7	NM	3.2	23.20	2.4	129	340	<0.50	<0.50	<0.50
Jun 13	1991.37	20.30	1971.07	7.2	3.8	NM	3.9	24.12	2.5	84	250	<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-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
	Mar 13	1955.30	19.03	1936.27	6.9	3.8	NM	1.7	23.48	2.5	121	160	0.52	<0.50	<0.50
	Jun 13	1955.30	20.75	1934.55	7.0	3.8	NM	1.8	25.96	2.5	104	110	0.52	<0.50	<0.50
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
	Mar 13	1929.98	18.83	1911.15	7.0	4.1	NM	4.3	19.76	2.7	139	34	<0.50	<0.50	<0.50
	Jun 13	1929.98	19.33	1910.65	7.0	4.1	NM	4.2	21.58	2.6	114	37	<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
	Mar 13	1908.38	14.48	1893.90	7.0	4.2	NM	3.9	20.46	2.7	138	7.3	<0.50	<0.50	<0.50
	Jun 13	1908.38	15.05	1893.33	7.0	4.1	NM	3.9	23.24	2.7	117	7.8	<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
	Mar 13	1967.55	24.20	1943.35	7.0	3.8	NM	1.4	22.63	2.4	137	280	0.83	<0.50	<0.50
	Jun 13	1967.55	25.63	1941.92	7.0	3.8	NM	1.7	26.48	2.5	94	210	0.83	<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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	4.7	<0.50	<0.50	<0.50
	Jun 13		26.15		7.6	3.3	NM	4.7	36.0	2.1	160	10	<0.50	<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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	48	3.1	<0.50	<0.50
	Jun 13		26.15		7.3	3.3	NM	5.0	36.4	2.2	127	3.6	<0.50	<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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	270	1.6	<0.50	<0.50
	Jun 13		26.18		7.5	3.2	NM	3.5	37.7	2.1	135	53	0.73	<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-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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	310	1.6	<0.50	<0.50
	Jun 13		26.14		7.7	3.1	NM	4.2	29.1	2.0	203	47	<0.50	<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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	280	2.4	<0.50	<0.50
	Jun 13		26.14		7.7	3.2	NM	5.7	29.5	2.1	165	64	<0.50	<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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	390	4.1	1.7	<0.50
	Jun 13		26.12		7.5	3.1	NM	4.3	28.9	2.0	178	200	0.57	<0.50	<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
	Mar 13		NM		NM	NM	NM	NM	NM	NM	NM	1,200	9.5	6.0	<0.50
	Jun 13		26.16		7.5	3.3	NM	4.9	29.5	2.1	220	1,000	5.9	3.6	<0.50

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

Maryland Square PCE Site

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

APPROVED BY: ADS

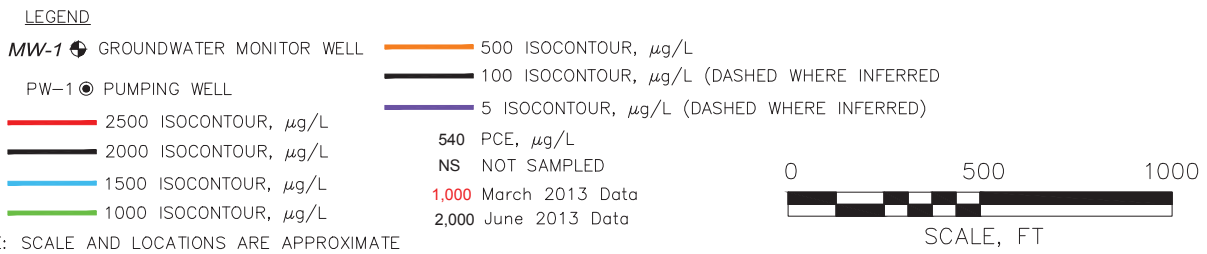
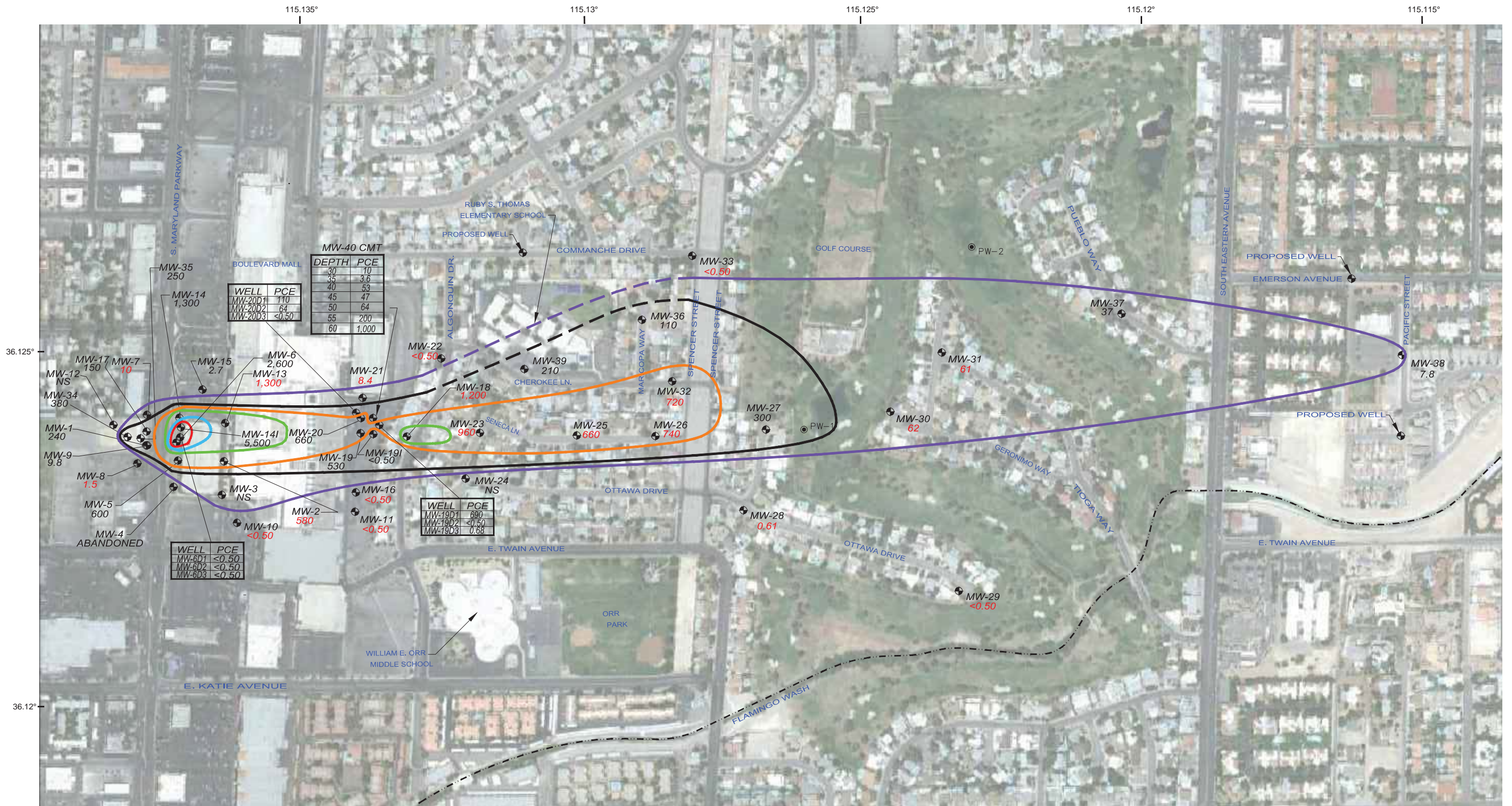
DRAWN BY: ABK

1



7115 Amigo Street, Suite 100
Las Vegas, Nevada 89119

Ph: (702) 990-9300 *** Fax: (702) 990-9305



PCE ISOCONCENTRATION MAP
JUNE 10 - JUNE 14, 2013 & JUNE 17, 2013
 MARYLAND SQUARE SHOPPING CENTER
 3661 S. MARYLAND PARKWAY
 LAS VEGAS, NV

PROJECT NUMBER: 85.42620.0001	DATE: 07/26/13	FIGURE 2
APPROVED BY: AS	DRAWN BY: SMO	
7115 Amigo Street, Suite 100 Las Vegas, Nevada 89119 Ph: (702) 990-9300 *** Fax: (702) 990-9305		

Maryland Square PCE Site

APPENDIX A
FIELD SHEETS



GROUNDWATER COLLECTION LOG

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

10-30

Project Name: Maryland square
 Project Number: 085-42640-0001
 Sampler's Name: NBT

Well ID: mw-1
 Sample ID: mw-1
 Date: 6/11/13

Purging Equipment: _____
 Sampling Equipment: Low Flow

Casing Type: PVC
 Casing Diameter: 2 inch
 Depth to Well Bottom: 25.86 feet
 Depth to Water: 20.69 feet
 Approximate Pump Depth: 23.0 Feet bgs, 23.0 Feet btoc

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.67 gal/lin ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	914	26.55	3.919	2.549	3.00	7.24	120.8	clear, No Odor
.5	919	25.47	3.900	2.535	1.83	7.13	101.4	" "
.75	924	25.51	3.900	2.528	1.76	7.16	86.5	" "
1.0	929	25.50	3.898	2.533	1.73	7.16	80.0	" "
1.25	934	25.43	3.899	2.534	1.72	7.16	78.4	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N
 Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no

22.8 PID
 _____ Vacuum
936 Sample Collection Time



GROUNDWATER COLLECTION LOG

10-32

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

Project Name: Mankland square
Project Number: _____
Sampler's Name: DWR

Well ID: mm-5
Sample ID: _____
Date: 6/13/13

Purging Equipment: _____
Sampling Equipment: low flow

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.15 feet
Depth to Water: 20.00 feet
Approximate Pump Depth: _____ Feet bgs 24.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1225	27.19	3.538	2.294	4.74	7.22	128.5	sl. cloudy No odor
.50	1230	27.60	3.535	2.300	4.73	7.20	126.2	Clear, No odor
.75	1235	27.61	3.535	2.300	4.74	7.10	126.1	Clear No odor
1.00	1240	27.61	3.536	2.301	4.72	7.17	126.1	Clear, no odor
1.25	1245	27.60	3.536	2.298	4.70	7.17	125.9	Clear, No odor

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
PID: 3.0
Vacuum: _____
Sample Collection Time: 1249



GROUNDWATER COLLECTION LOG

10-32

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

Project Name: mainland square
Project Number: _____
Sampler's Name: DWR

Well ID: mw-6
Sample ID: _____
Date: 6/13

Purging Equipment: low flow
Sampling Equipment: low flow

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.07 feet
Depth to Water: 20.58 feet
Approximate Pump Depth: _____ Feet bgs 25 Feet btoc

2" = 0.16 gal/in ft.
3" = 0.37 gal/in ft.
4" = 0.67 gal/in ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1359	30.66	3.429	2.229	3.73	7.29	123.4	cloudy, no odor
0.50	1404	30.62	3.433	2.232	3.54	7.26	123.4	cloudy, no odor
0.75	1409	30.63	3.435	2.235	3.57	7.27	129.7	cloudy, no odor
1.0	1414	30.61	3.433	2.236	3.55	7.28	129.6	cloudy, no odor
1.25	1419	30.62	3.434	2.236	3.57	7.28	129.6	cloudy, no odor

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments:

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
PID: 0.7
Vacuum: _____
Sample Collection Time: 1427



GROUNDWATER COLLECTION LOG

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

50-60

Project Name: Maryland Square
 Project Number: _____
 Sampler's Name: DKK

Well ID: MW601
 Sample ID: _____
 Date: 6/13

Purging Equipment: _____
 Sampling Equipment: low flow

Casing Type: PVC
 Casing Diameter: 2 inch 2" = 0.16 gal/in ft.
 Depth to Well Bottom: 59.74 feet 3" = 0.37 gal/in ft.
 Depth to Water: 20.20 feet 4" = 0.67 gal/in ft.
 Approximate Pump Depth: _____ Feet bgs 55 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	917	25.96	0.658	0.428	5.91	7.58	306.3	cloudy, No odor
.50	922	25.83	0.656	0.426	5.76	7.41	312.8	cloudy, No odor
.75	927	25.80	0.652	0.424	5.21	7.51	280.2	5% cloudy, No odor
1.0	932	25.81	0.652	0.424	5.20	7.51	280.5	clear, No odor
1.25	937	25.82	0.652	0.424	5.19	7.52	280.4	clear, No odor

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no
 PID: 0.0
 Vacuum: _____
 Sample Collection Time: 941



GROUNDWATER COLLECTION LOG

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

80-90

Project Name: Maryland Square
Project Number: _____
Sampler's Name: DKK

Well ID: MW-602
Sample ID: _____
Date: 6/13/13

Purging Equipment: _____
Sampling Equipment: low flow
low flow

Casing Type: PVC
Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 89.02 feet 3" = 0.37 gal/lin ft.
Depth to Water: 20.40 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: _____ Feet bgs 85' Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1003	25.89	0.664	0.431	6.03	7.68	168.2	cloudy, NO odor
.50	1006	25.47	0.663	0.431	5.95	7.45	145.5	sl. cloud, NO odor
.75	1013	25.48	0.662	0.430	5.93	7.47	142.1	sl. cloud, NO odor
1.0	1018	25.48	0.662	0.430	5.90	7.47	141.8	sl. cloud, NO odor
1.25	1023	25.49	0.661	0.430	5.88	7.46	141.8	sl. cloud, NO odor

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): Y

Comments: _____

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
PID: 0.0
Vacuum: _____
Sample Collection Time: 1027



GROUNDWATER COLLECTION LOG

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

100-110

Project Name: Maryland Square
 Project Number: _____
 Sampler's Name: DKR

Well ID: MM-603
 Sample ID: _____
 Date: 6/13/13

Purging Equipment: _____
 Sampling Equipment: low flow

Casing Type: PVC
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 110 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 24.40 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth: _____ Feet bgs 105 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1045	31.15	0.557	0.362	4.63	7.74	164.2	clear, NO odor
0.50	1050	31.06	0.549	0.356	2.84	7.67	155.2	clear, NO odor
0.75	1055	31.08	0.547	0.354	2.83	7.66	154.9	clear, NO odor
1.0	1100	31.08	0.545	0.353	2.82	7.68	154.9	clear, NO odor
1.25	1105	31.09	0.546	0.354	2.83	7.68	154.0	clear, NO odor

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no
0.0 PID
 _____ Vacuum
 110 Sample Collection Time



GROUNDWATER COLLECTION LOG

48.5-50

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

Project Name: Maryland Square
Project Number: 065-426201-0001
Sampler's Name: NBA

Well ID: mw-9
Sample ID: mw-9
Date: 6/11/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 49.97 feet 3" = 0.37 gal/lin ft.
Depth to Water: 20.91 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: 50 Feet bgs 49.5 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	738	25.27	1.398	0.909	2.62	7.27	136.9	sl. cloudy, No Odor
.5	743	25.17	1.398	0.908	2.37	7.24	126.3	clear, No Odor
.75	744	25.37	1.421	0.927	2.31	7.23	116.5	" "
1.0	753	25.28	1.420	0.927	2.29	7.22	112.8	" "
1.25	758	25.44	1.420	0.926	2.31	7.22	110.3	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? Y yes ___ no Replaced? ___ yes Y no 0.3 PID
Bolts secured? Y yes ___ no Replaced? ___ yes Y no ___ Vacuum
800 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

15-40

Project Name: Newland Square
Project Number: _____
Sampler's Name: DHR

Well ID: mm-14
Sample ID: _____
Date: 6/13

Purging Equipment: _____
Sampling Equipment: low flow

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 30.00 feet
Depth to Water: 19.44 feet
Approximate Pump Depth: _____ Feet bgs 25 Feet btoc

2" = 0.16 gal/in ft.
3" = 0.37 gal/in ft.
4" = 0.67 gal/in ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1303	28.38	3.858	2.508	4.42	7.14	139.0	SL cloudy, no odor
.50	1308	28.25	3.871	2.525	3.68	7.17	130.9	SL cloudy, no odor
.75	1313	28.27	3.875	2.523	3.50	7.15	130.7	SL cloudy, no odor
1.0	1318	28.28	3.877	2.520	3.49	7.16	129.9	SL cloudy, no odor
1.25	1323	28.28	3.877	2.519	3.49	7.16	129.9	SL cloudy, no odor

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes

Purged Dry (Y/N): _____

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
6.4 PID
1329 Vacuum
Sample Collection Time



GROUNDWATER COLLECTION LOG

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

40-55

Project Name: main/land square
 Project Number: _____
 Sampler's Name: DW

Well ID: mw-14R
 Sample ID: _____
 Date: 6/13/13

Purging Equipment: _____
 Sampling Equipment: low flow

Casing Type: PVC
 Casing Diameter: 4 inch
 Depth to Well Bottom: 54.65 feet
 Depth to Water: 19.95 feet
 Approximate Pump Depth: _____ Feet bgs 47.5 Feet btoc

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.67 gal/lin ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1446	30.07	1.408	0.913	5.03	7.57	127.0	clear, NO odor
0.50	1451	30.64	1.391	0.904	4.22	7.46	101.7	clear, No odor
0.75	1456	30.74	1.390	0.904	4.22 4.24	7.46	101.4	clear, No odor
1.0	1501	30.75	1.391	0.904	4.21	7.47	101.3	clear, No odor
1.25	1506	30.75	1.390	0.903	4.22	7.47	101.1	clear, No odor
1.5	1511	30.76	1.389	0.903	4.23	7.47	101.1	

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N
 Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no
1.1 PID
1522 Vacuum
1522 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

15-30

Project Name: Maryland Smear
Project Number: 029-42626-0001
Sampler's Name: N/A

Well ID: mw-17
Sample ID: mw-17
Date: 6/4/15

Purging Equipment: _____
Sampling Equipment: Low Flow

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 30.18 feet
Depth to Water: 20.30 feet
Approximate Pump Depth: 25.5 Feet bgs 25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
<u>.25</u>	<u>828</u>	<u>23.65</u>	<u>3.746</u>	<u>2.435</u>	<u>1.37</u>	<u>6.95</u>	<u>122.8</u>	<u>Clear, No Odor</u>
<u>.5</u>	<u>833</u>	<u>23.64</u>	<u>3.752</u>	<u>2.439</u>	<u>1.02</u>	<u>6.96</u>	<u>113.7</u>	<u>" "</u>
<u>.75</u>	<u>838</u>	<u>23.68</u>	<u>3.753</u>	<u>2.440</u>	<u>1.09</u>	<u>7.00</u>	<u>105.7</u>	<u>" "</u>
<u>1.0</u>	<u>843</u>	<u>23.65</u>	<u>3.757</u>	<u>2.442</u>	<u>1.13</u>	<u>7.03</u>	<u>99.8</u>	<u>" "</u>
<u>1.25</u>	<u>848</u>	<u>23.48</u>	<u>3.757</u>	<u>2.443</u>	<u>1.11</u>	<u>7.02</u>	<u>95.1</u>	<u>" "</u>
<u>1.5</u>	<u>853</u>	<u>23.43</u>	<u>3.757</u>	<u>2.442</u>	<u>1.10</u>	<u>7.03</u>	<u>91.1</u>	<u>" "</u>

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments:

Well Security: Locking cap? yes ___ no Replaced? yes no
Bolts secured? yes ___ no Replaced? ___ yes no
4.7 PID
Vacuum
885 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

19-35

Project Name: Maryland Square
Project Number: 085-42625-0001
Sampler's Name: NBA

Well ID: MW-19A
Sample ID: MW-19
Date: 6/14

Purging Equipment: _____
Sampling Equipment: Low Flow

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 20.30 feet
Depth to Water: 27.46 feet
Approximate Pump Depth: 27.5 Feet bgs 29.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1401	29.05	3.423	2.224	5.73	7.33	110.6	Cloudy, No color, Brown
.5	1406	28.12	3.420	2.221	5.12	7.28	112.9	" " "
.75	1411	27.97	3.419	2.220	4.93	7.25	117.5	" " "
1.0	1416	27.92	3.419	2.220	4.90	7.24	118.3	" " "
1.25	1421	28.16	3.418	2.220	4.87	7.24	119.1	" " "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no

11.3 PID
1423 Vacuum
1423 Sample Collection Time
Permanganate 0.0



GROUNDWATER COLLECTION LOG

34-54

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

Project Name: Manland Square
Project Number: 055-42620.0001
Sampler's Name: ABW

Well ID: MCW-19E
Sample ID: MCW-19E
Date: 6/14

Purging Equipment: _____
Sampling Equipment: Low Flow

Casing Type: PVC
Casing Diameter: 4 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 54.04 feet 3" = 0.37 gal/lin ft.
Depth to Water: 26.42 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: 27.5 Feet bgs 44.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1458	26.40	3.380	2.195	5.36	7.43	545.9	Purple, No odor
.5	1503	26.38	3.356	2.181	4.84	7.39	554.2	" "
.75	1508	26.20	3.354	2.180	4.53	7.30	572.7	" "
1.0	1513	26.23	3.353	2.179	4.43	7.29	584.6	" "
1.25	1518	26.15	3.353	2.179	4.40	7.29	586.3	" "
1.5	1523	26.11	3.352	2.179	4.37	7.28	589.0	" "

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no

0.10 PID
____ Vacuum
1523 Sample Collection Time

Permanganate 1.0



GROUNDWATER COLLECTION LOG

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

31-51

Project Name: Maryland Square
Project Number: 035-42620-0001
Sampler's Name: NBA

Well ID: MW-1901
Sample ID: MW-1901
Date: 6/12/13

Purging Equipment: _____
Sampling Equipment: LOWFLOW

Casing Type: PVC
Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 50.74 feet 3" = 0.37 gal/lin ft.
Depth to Water: 27.73 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: 41.5 Feet bgs 41.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
<u>0.25</u>	<u>1315</u>	<u>27.57</u>	<u>2.927</u>	<u>1.904</u>	<u>4.96</u>	<u>7.37</u>	<u>311.9</u>	<u>cloudy, brown, no odor</u>
<u>.5</u>	<u>1320</u>	<u>27.92</u>	<u>2.977</u>	<u>1.935</u>	<u>4.73</u>	<u>7.30</u>	<u>316.3</u>	<u>" " "</u>
<u>1.75</u>	<u>1325</u>	<u>27.46</u>	<u>2.989</u>	<u>1.947</u>	<u>4.70</u>	<u>7.26</u>	<u>308.7</u>	<u>" " "</u>
<u>1.0</u>	<u>1330</u>	<u>27.09</u>	<u>2.990</u>	<u>1.948</u>	<u>4.68</u>	<u>7.27</u>	<u>294.2</u>	<u>" " "</u>
<u>1.25</u>	<u>1335</u>	<u>27.42</u>	<u>2.989</u>	<u>1.948</u>	<u>4.68</u>	<u>7.27</u>	<u>292.6</u>	<u>" " "</u>

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? Y yes ___no
Bolts secured? Y yes ___no
Replaced? ___yes Xno
Replaced? ___yes Xno

2.1 PID
____ Vacuum
1337 Sample Collection Time

Permanganate 1.0



GROUNDWATER COLLECTION LOG

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

60-70

Project Name: Maryland Spruce
 Project Number: 085-42620-0001
 Sampler's Name: NBA

Well ID: mw-19D2
 Sample ID: mw-19D2
 Date: 6/17/13

Purging Equipment: _____
 Sampling Equipment: Low Flow

Casing Type: PVC
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 70.22 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 27.85 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth: 65.5 Feet bgs 65.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1820	26.73	2.730	1.774	2.89	7.51	563.4	Purple No odor
.5	1825	26.55	2.727	1.772	2.50	7.48	578.1	Purple No odor
.75	1830	26.82	2.711	1.761	2.04	7.37	594.2	" "
1.0	1835	26.57	2.709	1.759	1.98	7.37	604.2	" "
1.25	1840	26.09	2.709	1.759	1.97	7.37	606.9	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no 1.2 PID
 Bolts secured? yes no Replaced? yes no _____ Vacuum
1842 Sample Collection Time

Permanganate 0.5



GROUNDWATER COLLECTION LOG

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

92-102

Project Name: Marjand Square
 Project Number: 05-42620-0001
 Sampler's Name: NBA

Well ID: MW-19D3
 Sample ID: _____
 Date: _____

Purging Equipment: _____
 Sampling Equipment: LOW FLOW

Casing Type: PVC
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 99.50 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 25.53 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth: 95.5 Feet bgs 95 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.5	1145	28.39	0.560	0.364	4.98	7.72	75.3	Clear, No odor
0.5	1150	28.62	0.541	0.352	4.31	7.71	74.7	" "
0.75	1155	28.24	0.538	0.350	4.03	7.69	72.0	" "
1.0	1200	28.01	0.536	0.340	4.05	7.69	70.1	" "
1.25	1205	28.15	0.537	0.349	4.03	7.69	68.4	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no 1.2 PID
 Bolts secured? yes no Replaced? yes no + Vacuum
1207 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

19-35

Project Name: Mandalay Square
 Project Number: 045-42620-0001
 Sampler's Name: NBA

Well ID: MW-20
 Sample ID: MW-20
 Date: 6/12

Purging Equipment: Low Flow
 Sampling Equipment: Y

Casing Type: PVC
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 32.35 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 27.20 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth: 30.5 Feet bgs 30.0 Feet btoc

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1413	27.04	3.701	2.406	5.38	7.29	202.2	sl. cloudy No odor
0.5	1418	26.92	3.698	2.410	4.75	7.19	199.4	" "
0.75	1423	26.58	3.694	2.408	4.73	7.17	194.7	" "
1.0	1428	26.78	3.694	2.408	4.71	7.17	192.6	" "
1.25	1433	26.67	3.695	2.407	4.70	7.17	192.3	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments:

Well Security: Locking cap? yes no Replaced? yes no 12.9 PID
 Bolts secured? yes no Replaced? yes no Vacuum
1435 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

25.45

Project Name: Maryland Square
Project Number: 053.42620.0001
Sampler's Name: NBA

Well ID: MW-20 D1
Sample ID: MW-20 D1
Date: 01/2/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 45.22 feet 3" = 0.37 gal/lin ft.
Depth to Water: 26.17 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: 36.0 Feet bgs 35.5 Feet btoc

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1028	27.82	3.316	2.154	5.78	7.36	115.7	sl. cloudy, 76 Obs, Pink
.5	1033	27.20	3.050	1.982	5.43	7.24	119.6	" "
.75	1038	27.31	3.047	1.980	5.16	7.30	115.5	" "
1.0	1043	27.68	3.047	1.979	5.14	7.29	115.9	" "
1.25	1048	27.38	3.046	1.978	5.16	7.29	118.0	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____
Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
PID: 61
Vacuum: 1050
Sample Collection Time: Permutanganate 0.5



GROUNDWATER COLLECTION LOG

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

58-65

Project Name: Morland Square
Project Number: 055-42620-0007
Sampler's Name: N/A

Well ID: MW-2002
Sample ID: MW-2002
Date: 6/12/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC

Casing Diameter: 2 inch
Depth to Well Bottom: 65.69 feet
Depth to Water: 26.23 feet
Approximate Pump Depth: 60.5 Feet bgs 60.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	940	25.87	0.786	0.511	4.96	7.66	109.8	clear, No odor
0.5	945	25.95	0.779	0.506	4.73	7.40	119.8	" "
0.75	950	25.82	0.784	0.509	4.65	7.42	112.1	" "
1.0	955	25.89	0.783	0.508	4.63	7.41	110.2	" "
1.25	1000	25.93	0.763	0.508	4.63	7.41	107.1	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes

Purged Dry (Y/N): N

Comments: lost a piece of hose

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
24 PID
1000 Vacuum
1000 Sample Collection Time

permanganate 0.0



GROUNDWATER COLLECTION LOG

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

90-100

Project Name: Maryland Square
Project Number: 085-42620-0001
Sampler's Name: DISA

Well ID: MW-2003
Sample ID: "
Date: 6/12/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 101.52 feet 3" = 0.37 gal/lin ft.
Depth to Water: 26.17 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: 95 Feet bgs 95 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	850	25.17	0.544	0.353	4.28	7.70	121.3	sl. Cloudy No odor
.5	855	25.11	0.542	0.352	3.91	7.62	122.3	" "
.75	900	24.85	0.538	0.350	3.87	7.92	156.2	clear No odor
1.0	905	24.75	0.534	0.347	3.89	7.09	135.4	" "
1.25	910	24.97	0.534	0.347	3.87	7.09	120.3	" "
1.5	915	24.81	0.534	0.347	3.87	7.08	118.7	" "

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): N
Comments: # 100' of hose

Well Security: Locking cap? yes no
Bolts secured? yes no
Replaced? yes no
Replaced? yes no
1.1 PID
 Vacuum
917 Sample Collection Time

Threaded casing & Cap Permanganate 0.0



GROUNDWATER COLLECTION LOG

10-36

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

Project Name: Maryland Samara
Project Number: 085-426240-0001
Sampler's Name: NBA

Well ID: MW-27
Sample ID: MW-27
Date: 6/10/13

Purging Equipment: _____
Sampling Equipment: Low Flow

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 25.25 feet
Depth to Water: 20.37 feet
Approximate Pump Depth: 28.5 Feet bgs 28.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1258	27.61	4.060	2.645	3.40	7.10	89.9	Clear, No odor
.5	1303	26.27	4.054	2.641	2.19	7.01	93.4	" "
.75	1308	25.58	4.057	2.635	2.12	7.00	96.6	" "
1.00	1313	25.37	4.056	2.633	2.11	7.00	96.7	" "
1.25	1318	25.27	4.037	2.630	2.08	6.99	96.4	" "
1.50	1323	25.31	4.038	2.631	2.09	6.99	95.4	" "

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
PID: 5.1
Vacuum: 2
Sample Collection Time: 1520



GROUNDWATER COLLECTION LOG

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

25' of screen

Project Name: Maryland Square
 Project Number: 08542 GHO-0001
 Sampler's Name: NBA

Well ID: mw-34
 Sample ID: mw-34
 Date: 6/11/13

Purging Equipment: _____
 Sampling Equipment: 20WFlow

Casing Type: PVC
 Casing Diameter: 2 inch 2" = 0.16 gal/in ft.
 Depth to Well Bottom: 22.06 feet 3" = 0.37 gal/in ft.
 Depth to Water: 19.32 feet 4" = 0.67 gal/in ft.
 Approximate Pump Depth: 24.5 Feet bgs 24.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
<u>.25</u>	<u>1041</u>	<u>24.46</u>	<u>3.985</u>	<u>2.589</u>	<u>2.05</u>	<u>7.31</u>	<u>82.2</u>	<u>Clear, No Odor</u>
<u>.5</u>	<u>1046</u>	<u>24.21</u>	<u>3.980</u>	<u>2.587</u>	<u>2.15</u>	<u>7.27</u>	<u>71.6</u>	<u>" "</u>
<u>.75</u>	<u>1051</u>	<u>23.99</u>	<u>3.979</u>	<u>2.586</u>	<u>1.95</u>	<u>7.27</u>	<u>67.1</u>	<u>" "</u>
<u>1.0</u>	<u>1056</u>	<u>23.97</u>	<u>3.978</u>	<u>2.586</u>	<u>1.96</u>	<u>7.26</u>	<u>65.1</u>	<u>" "</u>
<u>1.25</u>	<u>1101</u>	<u>24.03</u>	<u>3.978</u>	<u>2.586</u>	<u>1.94</u>	<u>7.26</u>	<u>63.4</u>	<u>" "</u>

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? Y yes ___no Replaced? ___yes X no 46.4 PID
 Bolts secured? X yes ___no Replaced? ___yes 1 no - Vacuum
1103 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

15' of screen

Project Name: Maryland Signal
 Project Number: 085-92660-0061
 Sampler's Name: WBA

Well ID: MW-35
 Sample ID: MW-35
 Date: 6/4/13

Purging Equipment: _____
 Sampling Equipment: Low Flow

Casing Type: PVC

Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 27.86 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 20.30 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth: 24.5 Feet bgs 24.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	954	24.70	3.823	2.482	4.84	7.34	95.0	Sl. Cloudy, No Odor
.5	959	24.37	3.799	2.452	3.97	7.25	87.5	" "
.75	1004	24.09	3.783	2.458	3.93	7.21	81.2	" "
1.0	1009	24.07	3.780	2.456	3.89	7.21	85.8	" "
1.25	1014	24.12	3.781	2.457	3.87	7.21	83.6	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no 440 PID
 Bolts secured? yes no Replaced? yes no - Vacuum
1016 Sample Collection Time



GROUNDWATER COLLECTION LOG

17-38

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

Project Name: Maryland Special
Project Number: 085-40620-0001
Sampler's Name: NBA

Well ID: mw-36
Sample ID: mw-36
Date: 6/10/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 4 inch 2" = 0.16 gal/in ft.
Depth to Well Bottom: 37.85 feet 3" = 0.37 gal/in ft.
Depth to Water: 20.75 feet 4" = 0.67 gal/in ft.
Approximate Pump Depth: 29.5 Feet bgs 29.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1118	25.74	3.814	2.983	2.00	7.08	120.4	Clear, No Odor
.5	1123	25.75	3.813	2.477	1.87	7.05	111.9	" "
.75	1128	25.96	3.814	2.481	1.83	7.04	108.3	" "
1.0	1133	25.93	3.812	2.479	1.80	7.03	104.7	" "
1.25	1138	25.84	3.812	2.478	1.81	7.03	104.3	" "
1.5	1143	25.96	3.814	2.479	1.82	7.03	103.9	" "

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____
Well Security: Locking cap? yes no Replaced? yes no 1.7 PID
Bolts secured? yes no Replaced? yes no ~ Vacuum
1148 Sample Collection Time



GROUNDWATER COLLECTION LOG

17-38

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

Project Name: Maryland Square
Project Number: 985-42620-10001
Sampler's Name: N/B

Well ID: mw-37
Sample ID: mw-37
Date: 6/10/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 4 inch 2" = 0.16 gal/in ft.
Depth to Well Bottom: 39.02 feet 3" = 0.37 gal/in ft.
Depth to Water: 19.33 feet 4" = 0.67 gal/in ft.
Approximate Pump Depth: 28.5 Feet bgs 28.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1020	22.07	4.098	2.668	4.44	7.12	122.3	Clear, No Odor
.5	1025	22.02	4.085	2.653	4.23	6.97	121.8	" "
.75	1030	21.74	4.090	2.661	4.30	6.99	117.5	" "
1.0	1035	21.61	4.093	2.665	4.20	7.00	115.0	" "
1.25	1040	21.66	4.092	2.663	4.22	7.00	113.8	" "
1.5	1045	21.58	4.090	2.662	4.20	7.00	113.9	" "

Total Water Volume Purged: 1.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____
Well Security: Locking cap? no yes ___ no ___ Replaced? ___ yes no no ___
Bolts secured? yes yes ___ no ___ Replaced? ___ yes no no ___
0.8 PID
1047 Vacuum
1047 Sample Collection Time

15-36



GROUNDWATER COLLECTION LOG

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

Project Name: Maryland Square
Project Number: 085-42620-0001
Sampler's Name: NBA

Well ID: MW-38
Sample ID: MW-38
Date: 6/10/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
Depth to Well Bottom: 35.04 feet 3" = 0.37 gal/lin ft.
Depth to Water: 15.05 feet 4" = 0.67 gal/lin ft.
Approximate Pump Depth: 25.5 Feet bgs 25.0 Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	928	23.60	4.125	2.683	4.30	7.19	121.1	Clear, No odor
.5	933	23.58	4.125	2.682	4.17	7.03	122.4	" "
.75	938	23.22	4.121	2.680	3.93	7.05	118.6	" "
1.0	943	23.38	4.122	2.680	3.95	7.03	117.8	" "
1.25	948	23.24	4.121	2.679	3.94	7.04	116.8	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N
Comments: col. 2013

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? P yes ___ no Replaced? ___ yes P no
0.0 PID
 Vacuum
950 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

15-36

Project Name: Maryland Square
Project Number: 055-42620-0001
Sampler's Name: NBA

Well ID: MW-39
Sample ID: MW-39
Date: 6/10/13

Purging Equipment: _____
Sampling Equipment: LOW FLOW

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 38.00 feet
Depth to Water: 25.63 feet
Approximate Pump Depth: 32.5 Feet bgs 32-0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1213	28.48	3.841	2.497	2.60	7.06	122.7	Sf. cloudy, No Odor
.5	1218	26.73	3.827	2.486	1.80	7.03	108.5	" "
.75	1223	26.59	3.830	2.487	1.72	7.03	101.9	" "
1.0	1228	26.34	3.832	2.489	1.69	7.03	98.1	" "
1.25	1233	26.48	3.830	2.488	1.65	7.02	94.2	" "

Total Water Volume Purged: 1.25 Gallons = _____ Well Volumes
Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
Bolts secured? yes no Replaced? yes no
PID: 010
Vacuum: _____
Sample Collection Time: 1235



GROUNDWATER COLLECTION LOG

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

Project Name: Maryland Square
 Project Number: 085192620-0001
 Sampler's Name: NBA

Well ID: MW-40CMF 30
 Sample ID: MW-40CMF 30
 Date: 6/04

Purging Equipment: _____
 Sampling Equipment: Mini Inertia Pump

Casing Type: PVC
 Casing Diameter: _____ inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 29.74 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 26.15 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth _____ Feet bgs _____ Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
1	940	35.62	3.290	2.138	5.17	7.89	176.6	sl. cloudy, No odor
2	945	35.27	3.287	2.134	4.77	7.58	158.4	" "
3	950	35.83	3.281	2.128	4.74	7.58	152.3	" "
4	955	35.89	3.279	2.127	4.70	7.56	158.7	" "
5	1000	35.97	3.281	2.129	4.72	7.58	160.3	" "

Total Water Volume Purged: 5 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N
 Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no

0.0 PID
 Vacuum
1002 Sample Collection Time

Permanganate and



GROUNDWATER COLLECTION LOG

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

Project Name: Marble Square
 Project Number: 045-42625.0001
 Sampler's Name: ATC

Well ID: MW-40CMT-35
 Sample ID: MW-40CMT-35
 Date: _____

Purging Equipment: _____
 Sampling Equipment: 1/2" in. Inlet pump

Casing Type: PVC
 Casing Diameter: _____ inch 2" = 0.16 gal/in ft.
 Depth to Well Bottom: 39.97 feet 3" = 0.37 gal/in ft.
 Depth to Water: 26.15 feet 4" = 0.67 gal/in ft.
 Approximate Pump Depth _____ Feet bgs _____ Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.1	1105	37.27	3.350	2.178	5.34	7.74	126.3	clear, No odor
.2	1110	36.41	3.322	2.160	5.63	7.34	129.5	" "
.3	1115	36.20	3.318	2.156	4.98	7.30	125.7	" "
.4	1120	36.22	3.313	2.154	4.90	7.27	125.8	" "
.5	1130	36.39	3.316	2.155	4.96	7.29	126.7	" "

Total Water Volume Purged: .5 Gallons = _____ Well Volumes

Purged Dry (Y/N): _____

Comments: _____

Well Security: Locking cap? yes no N/A Replaced? yes no
 Bolts secured? yes no Replaced? yes no
00 PID
1140 Vacuum
1140 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

Project Name: heavy land Square
 Project Number: _____
 Sampler's Name: DNR

Well ID: mm 40 CMT 40
 Sample ID: _____
 Date: 6/11

Purging Equipment: _____
 Sampling Equipment: Mini Inertia

Casing Type: PVC
 Casing Diameter: 3.0 inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 29.45 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 26.18 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth _____ Feet bgs _____ Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.1	1325	37.62	3.204	2.088	3.37	7.42	139.0	Clear, no odor
.2	1330	37.64	3.205	2.089	3.39	7.42	134.6	Clear, No odor
.3	1335	37.71	3.206	2.090	3.46	7.44	134.9	clear, No odor
.4	1345	37.72	3.208	2.093	3.49	7.46	135.2	Clear no odor
.5	1350	37.72	3.210	2.095	3.47	7.45	134.4	Clear No odor

Total Water Volume Purged: .5 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N
 Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no
0.74 PID
100 Vacuum
100 Sample Collection Time
 Permanganate: 0.0



GROUNDWATER COLLECTION LOG

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

Project Name: Maryland Square
 Project Number: _____
 Sampler's Name: DAX

Well ID: mw-40 cmt 45
 Sample ID: _____
 Date: 6/17

Purging Equipment: _____
 Sampling Equipment: Mini Inertial Pump
~~Flow~~ ~~Flow~~

Casing Type: PVC
 Casing Diameter: _____ inch 2" = 0.16 gal/in ft.
 Depth to Well Bottom: 44.90 feet 3" = 0.37 gal/in ft.
 Depth to Water: 26.14 feet 4" = 0.67 gal/in ft.
 Approximate Pump Depth _____ Feet bgs _____ Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
10	855	28.96	3.002	1.952	5.91	7.73	249.7	Clear, NO odor
20	900	29.03	3.109	2.020	4.23	7.74	203.6	Clear, NO odor
30	905	29.06	3.113	2.023	4.20	7.72	203.1	Clear, NO odor
40	910	29.08	3.110	2.021	4.17	7.73	203.1	Clear, NO odor
50	915	29.10	3.111	2.022	4.14	7.74	203.3	Clear, NO odor

Total Water Volume Purged: 5 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no 0.5 PID
 Bolts secured? yes no Replaced? yes no Vacuum
925 Sample Collection Time

permanently 0.0



GROUNDWATER COLLECTION LOG

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

Project Name: Maryland Square
Project Number: _____
Sampler's Name: DWZ

Well ID: MM-40 CNT 50
Sample ID: _____
Date: 6/17

Purging Equipment: _____
Sampling Equipment: Mini Inertia Pump

Casing Type: PVC
Casing Diameter: _____ inch
Depth to Well Bottom: 49.86 feet
Depth to Water: 26.14 feet
Approximate Pump Depth _____ Feet bgs _____ Feet btoc
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
10	947	29.58	3.207	2.085	5.74	7.76	176.1	clear, no odor
20	957	29.54	3.212	2.088	5.68	7.72	165.6	clear, no odor
30	1007	29.50	3.215	2.094	5.69	7.69	165.0	clear, no odor
40	1017	29.53	3.218	2.102	5.65	7.68	165.2	clear, no odor
50	1027	29.51	3.217	2.099	5.67	7.68	165.3	clear, no odor

Total Water Volume Purged: 0.5 Gallons = _____ Well Volumes
Purged Dry (Y/N): _____
Comments: _____

Well Security: Locking cap? yes no Replaced? yes no 0.8 PID
Bolts secured? yes no Replaced? yes no _____ Vacuum
10.40 Sample Collection Time



GROUNDWATER COLLECTION LOG

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

Project Name: Maryland Square
 Project Number: _____
 Sampler's Name: DHK

Well ID: MMW-40 CNT 55
 Sample ID: _____
 Date: 6/17

Purging Equipment: _____
 Sampling Equipment: Inertia Pump

Casing Type: PVC
 Casing Diameter: _____ inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 54.60 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 26.12 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth _____ Feet bgs _____ Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
10	1117	29.28	3.146	2.045	5.63	7.56	176.2	Clear, No odor
20	1127	29.02	3.139	2.041	4.27	7.56	179.6	Clear, No odor
30	1137	28.97	3.136	2.039	4.25	7.54	178.3	Clear, No odor
40	1147	28.94	3.140	2.043	4.26	7.54	178.0	Clear, No odor
50	1157	28.91	3.142	2.042	4.23	7.51	178.5	Clear, No odor
60	1207	28.93	3.143	2.042	4.25	7.51	178.3	Clear, No odor

Total Water Volume Purged: .6 Gallons = _____ Well Volumes
 Purged Dry (Y/N): N

Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no

PID: 0.4
 Vacuum: _____
 Sample Collection Time: 1222
 Penetration: 0.0



GROUNDWATER COLLECTION LOG

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

Project Name: Maryland Square
 Project Number: _____
 Sampler's Name: DWF

Well ID: mw-40 cmf 60
 Sample ID: _____
 Date: 6/17

Purging Equipment: _____
 Sampling Equipment: Mini Inertia Pump

Casing Type: PVC
 Casing Diameter: _____ inch 2" = 0.16 gal/lin ft.
 Depth to Well Bottom: 59.85 feet 3" = 0.37 gal/lin ft.
 Depth to Water: 26.16 feet 4" = 0.67 gal/lin ft.
 Approximate Pump Depth _____ Feet bgs _____ Feet btoc

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
10	1240	29.04	3.284	2.135	5.76	7.57	170.9	Clear, No odor
20	1256	29.40	3.282	2.133	4.91	7.46	220.1	Clear, No odor
30	1310	29.47	3.283	2.131	4.88	7.44	214.9	Clear, No odor
40	1320	29.46	3.280	2.132	4.90	7.46	220.0	Clear, No odor
50	1330	29.49	3.281	2.133	4.92	7.48	220.2	Clear, no odor

Total Water Volume Purged: 150 Gallons = _____ Well Volumes
 Purged Dry (Y/N): _____
 Comments: _____

Well Security: Locking cap? yes no Replaced? yes no
 Bolts secured? yes no Replaced? yes no
 _____ PID
 _____ Vacuum
1342 Sample Collection Time
 Permanganate: 0.0

Maryland Square PCE Site

APPENDIX B
LABORATORY ANALYTICAL REPORTS

CLIENT: Cardno ATC
Project: Maryland Square Shopping Center, 085.42620.0
Lab Order: N010420

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.

Sample MW-19I was not analyzed for Hexavalent Chromium. Please see attached correspondence.

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS) on D130624LCS2 and D130625LCS recovery biased high for MTBE. Sample results were non-detect (ND) for this analyte therefore reanalysis was not necessary.

Surrogate Toluene-d8 was outside recovery limit on samples N010420-012, N010420-014 and N010420-046 possibly due to matrix interference. The other surrogates were recovered within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS) and Matrix Spike Duplicate (MSD) is outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



CLIENT: Cardno ATC	Client Sample ID: MW-1
Lab Order: N010420	Collection Date: 6/11/2013 9:36:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-001	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/23/2013 06:48 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/23/2013 06:48 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/23/2013 06:48 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/23/2013 06:48 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/23/2013 06:48 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/23/2013 06:48 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/23/2013 06:48 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/23/2013 06:48 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/23/2013 06:48 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/23/2013 06:48 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 06:48 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/23/2013 06:48 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/23/2013 06:48 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/23/2013 06:48 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/23/2013 06:48 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/23/2013 06:48 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/23/2013 06:48 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/23/2013 06:48 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/23/2013 06:48 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/23/2013 06:48 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/23/2013 06:48 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/23/2013 06:48 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/23/2013 06:48 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/23/2013 06:48 PM
Benzene	ND	0.048	0.50	µg/L	1	6/23/2013 06:48 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/23/2013 06:48 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/23/2013 06:48 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/23/2013 06:48 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/23/2013 06:48 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/23/2013 06:48 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/23/2013 06:48 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/23/2013 06:48 PM
Chloroform	3.4	0.048	0.50	µg/L	1	6/23/2013 06:48 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/23/2013 06:48 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/23/2013 06:48 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/23/2013 06:48 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: MW-1
Lab Order: N010420	Collection Date: 6/11/2013 9:36:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-001	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/23/2013 06:48 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/23/2013 06:48 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 06:48 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/23/2013 06:48 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/23/2013 06:48 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/23/2013 06:48 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/23/2013 06:48 PM
MTBE	ND 0.098	0.50	µg/L 1 6/23/2013 06:48 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/23/2013 06:48 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/23/2013 06:48 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/23/2013 06:48 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/23/2013 06:48 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 06:48 PM
Styrene	ND 0.040	0.50	µg/L 1 6/23/2013 06:48 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/23/2013 06:48 PM
Tetrachloroethene	240 1.2	5.0	µg/L 10 6/23/2013 02:32 PM
Toluene	ND 0.034	0.50	µg/L 1 6/23/2013 06:48 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/23/2013 06:48 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/23/2013 06:48 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/23/2013 06:48 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/23/2013 06:48 PM
Surr: 1,2-Dichloroethane-d4	95.2 0	70-127	%REC 10 6/23/2013 02:32 PM
Surr: 1,2-Dichloroethane-d4	99.2 0	70-127	%REC 1 6/23/2013 06:48 PM
Surr: 4-Bromofluorobenzene	93.4 0	80-120	%REC 1 6/23/2013 06:48 PM
Surr: 4-Bromofluorobenzene	90.8 0	80-120	%REC 10 6/23/2013 02:32 PM
Surr: Dibromofluoromethane	101 0	73-128	%REC 1 6/23/2013 06:48 PM
Surr: Dibromofluoromethane	99.0 0	73-128	%REC 10 6/23/2013 02:32 PM
Surr: Toluene-d8	98.7 0	80-120	%REC 10 6/23/2013 02:32 PM
Surr: Toluene-d8	95.0 0	80-120	%REC 1 6/23/2013 06:48 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



Advanced Technology Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: MW-5
Lab Order: N010420	Collection Date: 6/13/2013 12:49:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-002	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 04:30 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 04:30 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 04:30 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 04:30 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 04:30 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 04:30 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 04:30 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 04:30 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 04:30 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 04:30 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 04:30 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 04:30 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 04:30 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 04:30 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 04:30 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 04:30 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 04:30 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 04:30 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 04:30 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 04:30 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 04:30 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 04:30 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 04:30 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 04:30 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 04:30 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 04:30 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 04:30 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 04:30 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 04:30 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 04:30 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 04:30 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 04:30 PM
Chloroform	5.2	0.048	0.50	µg/L	1	6/25/2013 04:30 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 04:30 PM
cis-1,2-Dichloroethene	0.95	0.057	0.50	µg/L	1	6/25/2013 04:30 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 04:30 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

CLIENT: Cardno ATC	Client Sample ID: MW-5
Lab Order: N010420	Collection Date: 6/13/2013 12:49:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-002	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 04:30 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 04:30 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:30 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 04:30 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 04:30 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 04:30 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 04:30 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 04:30 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 04:30 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 04:30 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 04:30 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 04:30 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:30 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 04:30 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 04:30 PM
Tetrachloroethene	600 1.2	5.0	µg/L 10 6/24/2013 11:50 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 04:30 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 04:30 PM
Trichloroethene	2.9 0.075	0.50	µg/L 1 6/25/2013 04:30 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 04:30 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 04:30 PM
Surr: 1,2-Dichloroethane-d4	91.5 0	70-127	%REC 10 6/24/2013 11:50 PM
Surr: 1,2-Dichloroethane-d4	89.3 0	70-127	%REC 1 6/25/2013 04:30 PM
Surr: 4-Bromofluorobenzene	90.7 0	80-120	%REC 10 6/24/2013 11:50 PM
Surr: 4-Bromofluorobenzene	90.4 0	80-120	%REC 1 6/25/2013 04:30 PM
Surr: Dibromofluoromethane	96.4 0	73-128	%REC 10 6/24/2013 11:50 PM
Surr: Dibromofluoromethane	90.6 0	73-128	%REC 1 6/25/2013 04:30 PM
Surr: Toluene-d8	99.3 0	80-120	%REC 10 6/24/2013 11:50 PM
Surr: Toluene-d8	93.2 0	80-120	%REC 1 6/25/2013 04:30 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-003

Client Sample ID: MW-6
Collection Date: 6/13/2013 2:27:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 06:08 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 06:08 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 06:08 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 06:08 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 06:08 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 06:08 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 06:08 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 06:08 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 06:08 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 06:08 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:08 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 06:08 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 06:08 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 06:08 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 06:08 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 06:08 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 06:08 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 06:08 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 06:08 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 06:08 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 06:08 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 06:08 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 06:08 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 06:08 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 06:08 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 06:08 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 06:08 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 06:08 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 06:08 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 06:08 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 06:08 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 06:08 PM
Chloroform	3.4	0.048	0.50	µg/L	1	6/25/2013 06:08 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 06:08 PM
cis-1,2-Dichloroethene	1.3	0.057	0.50	µg/L	1	6/25/2013 06:08 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 06:08 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

CLIENT: Cardno ATC	Client Sample ID: MW-6
Lab Order: N010420	Collection Date: 6/13/2013 2:27:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-003	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 06:08 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 06:08 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 06:08 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 06:08 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 06:08 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 06:08 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 06:08 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 06:08 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 06:08 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 06:08 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 06:08 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 06:08 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 06:08 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 06:08 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 06:08 PM
Tetrachloroethene	2400 12	50	µg/L 100 6/25/2013 12:13 AM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 06:08 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 06:08 PM
Trichloroethene	7.7 0.075	0.50	µg/L 1 6/25/2013 06:08 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 06:08 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 06:08 PM
Surr: 1,2-Dichloroethane-d4	86.0 0	70-127	%REC 1 6/25/2013 06:08 PM
Surr: 1,2-Dichloroethane-d4	94.2 0	70-127	%REC 100 6/25/2013 12:13 AM
Surr: 4-Bromofluorobenzene	85.9 0	80-120	%REC 1 6/25/2013 06:08 PM
Surr: 4-Bromofluorobenzene	90.8 0	80-120	%REC 100 6/25/2013 12:13 AM
Surr: Dibromofluoromethane	95.4 0	73-128	%REC 100 6/25/2013 12:13 AM
Surr: Dibromofluoromethane	87.0 0	73-128	%REC 1 6/25/2013 06:08 PM
Surr: Toluene-d8	101 0	80-120	%REC 100 6/25/2013 12:13 AM
Surr: Toluene-d8	87.8 0	80-120	%REC 1 6/25/2013 06:08 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

CLIENT: Cardno ATC	Client Sample ID: MW-6D1
Lab Order: N010420	Collection Date: 6/13/2013 9:41:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-004	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 04:28 AM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 04:28 AM
1,1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 04:28 AM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 04:28 AM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 04:28 AM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 04:28 AM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 04:28 AM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 04:28 AM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 04:28 AM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 04:28 AM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 04:28 AM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 04:28 AM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 04:28 AM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 04:28 AM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 04:28 AM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 04:28 AM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 04:28 AM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 04:28 AM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 04:28 AM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 04:28 AM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 04:28 AM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 04:28 AM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 04:28 AM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 04:28 AM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 04:28 AM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 04:28 AM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 04:28 AM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 04:28 AM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 04:28 AM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 04:28 AM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 04:28 AM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 04:28 AM
Chloroform	ND	0.048	0.50	µg/L	1	6/25/2013 04:28 AM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 04:28 AM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 04:28 AM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 04:28 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

CLIENT: Cardno ATC	Client Sample ID: MW-6D1
Lab Order: N010420	Collection Date: 6/13/2013 9:41:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-004	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 04:28 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 04:28 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:28 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 04:28 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 04:28 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 04:28 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 04:28 AM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 04:28 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 04:28 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 04:28 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 04:28 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 04:28 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:28 AM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 04:28 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 04:28 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/25/2013 04:28 AM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 04:28 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 04:28 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/25/2013 04:28 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 04:28 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 04:28 AM
Surr: 1,2-Dichloroethane-d4	96.0 0	70-127	%REC 1 6/25/2013 04:28 AM
Surr: 4-Bromofluorobenzene	92.2 0	80-120	%REC 1 6/25/2013 04:28 AM
Surr: Dibromofluoromethane	98.0 0	73-128	%REC 1 6/25/2013 04:28 AM
Surr: Toluene-d8	99.5 0	80-120	%REC 1 6/25/2013 04:28 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

CLIENT: Cardno ATC	Client Sample ID: MW-6D2
Lab Order: N010420	Collection Date: 6/13/2013 10:27:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-005	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/24/2013 10:18 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/24/2013 10:18 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/24/2013 10:18 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/24/2013 10:18 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/24/2013 10:18 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/24/2013 10:18 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/24/2013 10:18 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/24/2013 10:18 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/24/2013 10:18 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/24/2013 10:18 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 10:18 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/24/2013 10:18 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/24/2013 10:18 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/24/2013 10:18 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/24/2013 10:18 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/24/2013 10:18 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/24/2013 10:18 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/24/2013 10:18 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/24/2013 10:18 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/24/2013 10:18 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/24/2013 10:18 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/24/2013 10:18 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/24/2013 10:18 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/24/2013 10:18 PM
Benzene	ND	0.048	0.50	µg/L	1	6/24/2013 10:18 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/24/2013 10:18 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/24/2013 10:18 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/24/2013 10:18 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/24/2013 10:18 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/24/2013 10:18 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/24/2013 10:18 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/24/2013 10:18 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/24/2013 10:18 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/24/2013 10:18 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/24/2013 10:18 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/24/2013 10:18 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-005

Client Sample ID: MW-6D2
Collection Date: 6/13/2013 10:27:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/24/2013 10:18 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/24/2013 10:18 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 10:18 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/24/2013 10:18 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/24/2013 10:18 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/24/2013 10:18 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/24/2013 10:18 PM
MTBE	ND	0.098	0.50	µg/L	1	6/24/2013 10:18 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/24/2013 10:18 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/24/2013 10:18 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/24/2013 10:18 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/24/2013 10:18 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 10:18 PM
Styrene	ND	0.040	0.50	µg/L	1	6/24/2013 10:18 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/24/2013 10:18 PM
Tetrachloroethene	ND	0.12	0.50	µg/L	1	6/24/2013 10:18 PM
Toluene	ND	0.034	0.50	µg/L	1	6/24/2013 10:18 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/24/2013 10:18 PM
Trichloroethene	ND	0.075	0.50	µg/L	1	6/24/2013 10:18 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/24/2013 10:18 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/24/2013 10:18 PM
Surr: 1,2-Dichloroethane-d4	94.9	0	70-127	%REC	1	6/24/2013 10:18 PM
Surr: 4-Bromofluorobenzene	89.5	0	80-120	%REC	1	6/24/2013 10:18 PM
Surr: Dibromofluoromethane	96.8	0	73-128	%REC	1	6/24/2013 10:18 PM
Surr: Toluene-d8	102	0	80-120	%REC	1	6/24/2013 10:18 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

CLIENT: Cardno ATC	Client Sample ID: MW-6D3
Lab Order: N010420	Collection Date: 6/13/2013 11:10:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-006	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/24/2013 09:55 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/24/2013 09:55 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/24/2013 09:55 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/24/2013 09:55 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/24/2013 09:55 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/24/2013 09:55 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/24/2013 09:55 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/24/2013 09:55 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/24/2013 09:55 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/24/2013 09:55 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 09:55 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/24/2013 09:55 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/24/2013 09:55 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/24/2013 09:55 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/24/2013 09:55 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/24/2013 09:55 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/24/2013 09:55 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/24/2013 09:55 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/24/2013 09:55 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/24/2013 09:55 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/24/2013 09:55 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/24/2013 09:55 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/24/2013 09:55 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/24/2013 09:55 PM
Benzene	ND	0.048	0.50	µg/L	1	6/24/2013 09:55 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/24/2013 09:55 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/24/2013 09:55 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/24/2013 09:55 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/24/2013 09:55 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/24/2013 09:55 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/24/2013 09:55 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/24/2013 09:55 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/24/2013 09:55 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/24/2013 09:55 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/24/2013 09:55 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/24/2013 09:55 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

CLIENT: Cardno ATC	Client Sample ID: MW-6D3
Lab Order: N010420	Collection Date: 6/13/2013 11:10:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-006	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/24/2013 09:55 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/24/2013 09:55 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 09:55 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/24/2013 09:55 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/24/2013 09:55 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/24/2013 09:55 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/24/2013 09:55 PM
MTBE	ND 0.098	0.50	µg/L 1 6/24/2013 09:55 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/24/2013 09:55 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/24/2013 09:55 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/24/2013 09:55 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/24/2013 09:55 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 09:55 PM
Styrene	ND 0.040	0.50	µg/L 1 6/24/2013 09:55 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/24/2013 09:55 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/24/2013 09:55 PM
Toluene	ND 0.034	0.50	µg/L 1 6/24/2013 09:55 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/24/2013 09:55 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/24/2013 09:55 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/24/2013 09:55 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/24/2013 09:55 PM
Surr: 1,2-Dichloroethane-d4	92.6 0	70-127	%REC 1 6/24/2013 09:55 PM
Surr: 4-Bromofluorobenzene	88.2 0	80-120	%REC 1 6/24/2013 09:55 PM
Surr: Dibromofluoromethane	96.6 0	73-128	%REC 1 6/24/2013 09:55 PM
Surr: Toluene-d8	97.2 0	80-120	%REC 1 6/24/2013 09:55 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-007

Client Sample ID: MW-9
Collection Date: 6/11/2013 8:00:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 07:11 AM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 07:11 AM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 07:11 AM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 07:11 AM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 07:11 AM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 07:11 AM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 07:11 AM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 07:11 AM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 07:11 AM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 07:11 AM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 07:11 AM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 07:11 AM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 07:11 AM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 07:11 AM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 07:11 AM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 07:11 AM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 07:11 AM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 07:11 AM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 07:11 AM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 07:11 AM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 07:11 AM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 07:11 AM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 07:11 AM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 07:11 AM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 07:11 AM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 07:11 AM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 07:11 AM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 07:11 AM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 07:11 AM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 07:11 AM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 07:11 AM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 07:11 AM
Chloroform	0.70	0.048	0.50	µg/L	1	6/21/2013 07:11 AM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 07:11 AM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 07:11 AM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 07:11 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

CLIENT: Cardno ATC	Client Sample ID: MW-9
Lab Order: N010420	Collection Date: 6/11/2013 8:00:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-007	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 07:11 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 07:11 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 07:11 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 07:11 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 07:11 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 07:11 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 07:11 AM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 07:11 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 07:11 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 07:11 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 07:11 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 07:11 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 07:11 AM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 07:11 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 07:11 AM
Tetrachloroethene	9.8 0.12	0.50	µg/L 1 6/21/2013 07:11 AM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 07:11 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 07:11 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 07:11 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 07:11 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 07:11 AM
Surr: 1,2-Dichloroethane-d4	96.2 0	70-127	%REC 1 6/21/2013 07:11 AM
Surr: 4-Bromofluorobenzene	100 0	80-120	%REC 1 6/21/2013 07:11 AM
Surr: Dibromofluoromethane	100 0	73-128	%REC 1 6/21/2013 07:11 AM
Surr: Toluene-d8	98.0 0	80-120	%REC 1 6/21/2013 07:11 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-008

Client Sample ID: MW-14
Collection Date: 6/13/2013 1:29:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 04:53 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 04:53 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 04:53 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 04:53 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 04:53 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 04:53 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 04:53 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 04:53 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 04:53 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 04:53 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 04:53 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 04:53 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 04:53 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 04:53 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 04:53 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 04:53 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 04:53 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 04:53 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 04:53 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 04:53 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 04:53 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 04:53 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 04:53 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 04:53 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 04:53 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 04:53 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 04:53 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 04:53 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 04:53 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 04:53 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 04:53 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 04:53 PM
Chloroform	2.4	0.048	0.50	µg/L	1	6/25/2013 04:53 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 04:53 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 04:53 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 04:53 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



Advanced Technology Laboratories, Inc.

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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-008

Client Sample ID: MW-14
Collection Date: 6/13/2013 1:29:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/25/2013 04:53 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/25/2013 04:53 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 04:53 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/25/2013 04:53 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/25/2013 04:53 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/25/2013 04:53 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/25/2013 04:53 PM
MTBE	ND	0.098	0.50	µg/L	1	6/25/2013 04:53 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/25/2013 04:53 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/25/2013 04:53 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/25/2013 04:53 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/25/2013 04:53 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 04:53 PM
Styrene	ND	0.040	0.50	µg/L	1	6/25/2013 04:53 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/25/2013 04:53 PM
Tetrachloroethene	1300	5.9	25	µg/L	50	6/25/2013 12:36 AM
Toluene	ND	0.034	0.50	µg/L	1	6/25/2013 04:53 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/25/2013 04:53 PM
Trichloroethene	2.1	0.075	0.50	µg/L	1	6/25/2013 04:53 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/25/2013 04:53 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/25/2013 04:53 PM
Surr: 1,2-Dichloroethane-d4	89.8	0	70-127	%REC	1	6/25/2013 04:53 PM
Surr: 1,2-Dichloroethane-d4	92.3	0	70-127	%REC	50	6/25/2013 12:36 AM
Surr: 4-Bromofluorobenzene	90.2	0	80-120	%REC	1	6/25/2013 04:53 PM
Surr: 4-Bromofluorobenzene	90.4	0	80-120	%REC	50	6/25/2013 12:36 AM
Surr: Dibromofluoromethane	91.3	0	73-128	%REC	1	6/25/2013 04:53 PM
Surr: Dibromofluoromethane	94.6	0	73-128	%REC	50	6/25/2013 12:36 AM
Surr: Toluene-d8	92.0	0	80-120	%REC	1	6/25/2013 04:53 PM
Surr: Toluene-d8	100	0	80-120	%REC	50	6/25/2013 12:36 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-009

Client Sample ID: MW-14I
Collection Date: 6/13/2013 3:22:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 06:54 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 06:54 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 06:54 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 06:54 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 06:54 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 06:54 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 06:54 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 06:54 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 06:54 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 06:54 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:54 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 06:54 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 06:54 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 06:54 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 06:54 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 06:54 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 06:54 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 06:54 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 06:54 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 06:54 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 06:54 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 06:54 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 06:54 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 06:54 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 06:54 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 06:54 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 06:54 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 06:54 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 06:54 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 06:54 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 06:54 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 06:54 PM
Chloroform	0.73	0.048	0.50	µg/L	1	6/25/2013 06:54 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 06:54 PM
cis-1,2-Dichloroethene	3.8	0.057	0.50	µg/L	1	6/25/2013 06:54 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 06:54 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-009

Client Sample ID: MW-14I
Collection Date: 6/13/2013 3:22:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/25/2013 06:54 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/25/2013 06:54 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:54 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/25/2013 06:54 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/25/2013 06:54 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/25/2013 06:54 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/25/2013 06:54 PM
MTBE	ND	0.098	0.50	µg/L	1	6/25/2013 06:54 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/25/2013 06:54 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/25/2013 06:54 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/25/2013 06:54 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/25/2013 06:54 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:54 PM
Styrene	ND	0.040	0.50	µg/L	1	6/25/2013 06:54 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/25/2013 06:54 PM
Tetrachloroethene	5500	12	50	µg/L	100	6/25/2013 01:00 AM
Toluene	ND	0.034	0.50	µg/L	1	6/25/2013 06:54 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/25/2013 06:54 PM
Trichloroethene	27	0.075	0.50	µg/L	1	6/25/2013 06:54 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/25/2013 06:54 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/25/2013 06:54 PM
Surr: 1,2-Dichloroethane-d4	86.9	0	70-127	%REC	1	6/25/2013 06:54 PM
Surr: 1,2-Dichloroethane-d4	92.4	0	70-127	%REC	100	6/25/2013 01:00 AM
Surr: 4-Bromofluorobenzene	87.3	0	80-120	%REC	1	6/25/2013 06:54 PM
Surr: 4-Bromofluorobenzene	90.2	0	80-120	%REC	100	6/25/2013 01:00 AM
Surr: Dibromofluoromethane	93.0	0	73-128	%REC	1	6/25/2013 06:54 PM
Surr: Dibromofluoromethane	95.4	0	73-128	%REC	100	6/25/2013 01:00 AM
Surr: Toluene-d8	87.9	0	80-120	%REC	1	6/25/2013 06:54 PM
Surr: Toluene-d8	100	0	80-120	%REC	100	6/25/2013 01:00 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

CLIENT: Cardno ATC	Client Sample ID: MW-17
Lab Order: N010420	Collection Date: 6/11/2013 8:55:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-010	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/23/2013 06:25 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/23/2013 06:25 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/23/2013 06:25 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/23/2013 06:25 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/23/2013 06:25 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/23/2013 06:25 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/23/2013 06:25 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/23/2013 06:25 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/23/2013 06:25 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/23/2013 06:25 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 06:25 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/23/2013 06:25 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/23/2013 06:25 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/23/2013 06:25 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/23/2013 06:25 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/23/2013 06:25 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/23/2013 06:25 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/23/2013 06:25 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/23/2013 06:25 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/23/2013 06:25 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/23/2013 06:25 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/23/2013 06:25 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/23/2013 06:25 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/23/2013 06:25 PM
Benzene	ND	0.048	0.50	µg/L	1	6/23/2013 06:25 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/23/2013 06:25 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/23/2013 06:25 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/23/2013 06:25 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/23/2013 06:25 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/23/2013 06:25 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/23/2013 06:25 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/23/2013 06:25 PM
Chloroform	2.2	0.048	0.50	µg/L	1	6/23/2013 06:25 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/23/2013 06:25 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/23/2013 06:25 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/23/2013 06:25 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

CLIENT: Cardno ATC	Client Sample ID: MW-17
Lab Order: N010420	Collection Date: 6/11/2013 8:55:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-010	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/23/2013 06:25 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/23/2013 06:25 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 06:25 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/23/2013 06:25 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/23/2013 06:25 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/23/2013 06:25 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/23/2013 06:25 PM
MTBE	ND 0.098	0.50	µg/L 1 6/23/2013 06:25 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/23/2013 06:25 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/23/2013 06:25 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/23/2013 06:25 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/23/2013 06:25 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 06:25 PM
Styrene	ND 0.040	0.50	µg/L 1 6/23/2013 06:25 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/23/2013 06:25 PM
Tetrachloroethene	150 1.2	5.0	µg/L 10 6/23/2013 02:55 PM
Toluene	ND 0.034	0.50	µg/L 1 6/23/2013 06:25 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/23/2013 06:25 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/23/2013 06:25 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/23/2013 06:25 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/23/2013 06:25 PM
Surr: 1,2-Dichloroethane-d4	103 0	70-127	%REC 1 6/23/2013 06:25 PM
Surr: 1,2-Dichloroethane-d4	95.6 0	70-127	%REC 10 6/23/2013 02:55 PM
Surr: 4-Bromofluorobenzene	95.4 0	80-120	%REC 1 6/23/2013 06:25 PM
Surr: 4-Bromofluorobenzene	93.5 0	80-120	%REC 10 6/23/2013 02:55 PM
Surr: Dibromofluoromethane	103 0	73-128	%REC 1 6/23/2013 06:25 PM
Surr: Dibromofluoromethane	99.5 0	73-128	%REC 10 6/23/2013 02:55 PM
Surr: Toluene-d8	100 0	80-120	%REC 1 6/23/2013 06:25 PM
Surr: Toluene-d8	100 0	80-120	%REC 10 6/23/2013 02:55 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-011

Client Sample ID: MW-19
Collection Date: 6/14/2013 2:23:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/25/2013 04:07 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/25/2013 04:07 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/25/2013 04:07 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/25/2013 04:07 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/25/2013 04:07 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/25/2013 04:07 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/25/2013 04:07 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/25/2013 04:07 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/25/2013 04:07 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/25/2013 04:07 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:07 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/25/2013 04:07 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/25/2013 04:07 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/25/2013 04:07 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/25/2013 04:07 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/25/2013 04:07 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/25/2013 04:07 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/25/2013 04:07 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/25/2013 04:07 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/25/2013 04:07 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/25/2013 04:07 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/25/2013 04:07 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/25/2013 04:07 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/25/2013 04:07 PM
Benzene	ND 0.048	0.50	µg/L 1 6/25/2013 04:07 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/25/2013 04:07 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/25/2013 04:07 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/25/2013 04:07 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/25/2013 04:07 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/25/2013 04:07 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/25/2013 04:07 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/25/2013 04:07 PM
Chloroform	1.9 0.048	0.50	µg/L 1 6/25/2013 04:07 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/25/2013 04:07 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/25/2013 04:07 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/25/2013 04:07 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-011

Client Sample ID: MW-19
Collection Date: 6/14/2013 2:23:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 04:07 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 04:07 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:07 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 04:07 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 04:07 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 04:07 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 04:07 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 04:07 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 04:07 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 04:07 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 04:07 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 04:07 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:07 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 04:07 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 04:07 PM
Tetrachloroethene	530 2.3	10	µg/L 20 6/25/2013 02:09 AM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 04:07 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 04:07 PM
Trichloroethene	3.4 0.075	0.50	µg/L 1 6/25/2013 04:07 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 04:07 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 04:07 PM
Surr: 1,2-Dichloroethane-d4	93.5 0	70-127	%REC 20 6/25/2013 02:09 AM
Surr: 1,2-Dichloroethane-d4	93.5 0	70-127	%REC 1 6/25/2013 04:07 PM
Surr: 4-Bromofluorobenzene	87.8 0	80-120	%REC 20 6/25/2013 02:09 AM
Surr: 4-Bromofluorobenzene	89.2 0	80-120	%REC 1 6/25/2013 04:07 PM
Surr: Dibromofluoromethane	97.4 0	73-128	%REC 1 6/25/2013 04:07 PM
Surr: Dibromofluoromethane	97.2 0	73-128	%REC 20 6/25/2013 02:09 AM
Surr: Toluene-d8	99.6 0	80-120	%REC 20 6/25/2013 02:09 AM
Surr: Toluene-d8	94.8 0	80-120	%REC 1 6/25/2013 04:07 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	2.5 0.024	0.20	µg/L 1 6/19/2013 11:30 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-011

Client Sample ID: MW-19
Collection Date: 6/14/2013 2:23:00 PM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	ICP7_130620B	QC Batch:	43253	PrepDate:	6/20/2013	Analyst:	CEI
Arsenic	2.3	0.035	0.10	µg/L	1	6/20/2013 07:39 PM	
Chromium	4.6	0.17	1.0	µg/L	1	6/20/2013 07:39 PM	
Manganese	68	0.16	0.50	µg/L	1	6/24/2013 11:35 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

CLIENT: Cardno ATC	Client Sample ID: MW-191
Lab Order: N010420	Collection Date: 6/14/2013 3:25:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-012	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/24/2013 11:04 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/24/2013 11:04 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/24/2013 11:04 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/24/2013 11:04 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/24/2013 11:04 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/24/2013 11:04 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/24/2013 11:04 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/24/2013 11:04 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/24/2013 11:04 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/24/2013 11:04 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 11:04 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/24/2013 11:04 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/24/2013 11:04 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/24/2013 11:04 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/24/2013 11:04 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/24/2013 11:04 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/24/2013 11:04 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/24/2013 11:04 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/24/2013 11:04 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/24/2013 11:04 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/24/2013 11:04 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/24/2013 11:04 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/24/2013 11:04 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/24/2013 11:04 PM
Benzene	ND	0.048	0.50	µg/L	1	6/24/2013 11:04 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/24/2013 11:04 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/24/2013 11:04 PM
Bromoform	2.9	0.18	0.50	µg/L	1	6/24/2013 11:04 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/24/2013 11:04 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/24/2013 11:04 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/24/2013 11:04 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/24/2013 11:04 PM
Chloroform	2.5	0.048	0.50	µg/L	1	6/24/2013 11:04 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/24/2013 11:04 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/24/2013 11:04 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/24/2013 11:04 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

CLIENT: Cardno ATC	Client Sample ID: MW-191
Lab Order: N010420	Collection Date: 6/14/2013 3:25:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-012	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/24/2013 11:04 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/24/2013 11:04 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 11:04 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/24/2013 11:04 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/24/2013 11:04 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/24/2013 11:04 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/24/2013 11:04 PM
MTBE	ND 0.098	0.50	µg/L 1 6/24/2013 11:04 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/24/2013 11:04 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/24/2013 11:04 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/24/2013 11:04 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/24/2013 11:04 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 11:04 PM
Styrene	ND 0.040	0.50	µg/L 1 6/24/2013 11:04 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/24/2013 11:04 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/24/2013 11:04 PM
Toluene	ND 0.034	0.50	µg/L 1 6/24/2013 11:04 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/24/2013 11:04 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/24/2013 11:04 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/24/2013 11:04 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/24/2013 11:04 PM
Surr: 1,2-Dichloroethane-d4	96.7 0	70-127	%REC 1 6/24/2013 11:04 PM
Surr: 4-Bromofluorobenzene	92.1 0	80-120	%REC 1 6/24/2013 11:04 PM
Surr: Dibromofluoromethane	99.8 0	73-128	%REC 1 6/24/2013 11:04 PM
Surr: Toluene-d8	0.600 0	80-120	S %REC 1 6/24/2013 11:04 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Arsenic	0.34 0.035	0.10	µg/L 1 6/20/2013 09:04 PM
Chromium	87 0.17	1.0	µg/L 1 6/20/2013 09:04 PM
Manganese	62000 100	310	µg/L 625 6/24/2013 11:46 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-013

Client Sample ID: MW-19D1
Collection Date: 6/12/2013 1:37:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/25/2013 04:51 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/25/2013 04:51 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/25/2013 04:51 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/25/2013 04:51 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/25/2013 04:51 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/25/2013 04:51 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/25/2013 04:51 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/25/2013 04:51 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/25/2013 04:51 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/25/2013 04:51 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:51 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/25/2013 04:51 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/25/2013 04:51 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/25/2013 04:51 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/25/2013 04:51 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/25/2013 04:51 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/25/2013 04:51 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/25/2013 04:51 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/25/2013 04:51 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/25/2013 04:51 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/25/2013 04:51 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/25/2013 04:51 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/25/2013 04:51 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/25/2013 04:51 AM
Benzene	ND 0.048	0.50	µg/L 1 6/25/2013 04:51 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/25/2013 04:51 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/25/2013 04:51 AM
Bromoform	ND 0.18	0.50	µg/L 1 6/25/2013 04:51 AM
Bromomethane	ND 0.13	1.0	µg/L 1 6/25/2013 04:51 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/25/2013 04:51 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/25/2013 04:51 AM
Chloroethane	ND 0.17	1.0	µg/L 1 6/25/2013 04:51 AM
Chloroform	1.9 0.048	0.50	µg/L 1 6/25/2013 04:51 AM
Chloromethane	ND 0.043	0.50	µg/L 1 6/25/2013 04:51 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/25/2013 04:51 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/25/2013 04:51 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-013

Client Sample ID: MW-19D1
Collection Date: 6/12/2013 1:37:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 04:51 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 04:51 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:51 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 04:51 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 04:51 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 04:51 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 04:51 AM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 04:51 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 04:51 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 04:51 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 04:51 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 04:51 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 04:51 AM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 04:51 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 04:51 AM
Tetrachloroethene	690 1.2	5.0	µg/L 10 6/25/2013 05:14 AM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 04:51 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 04:51 AM
Trichloroethene	4.2 0.075	0.50	µg/L 1 6/25/2013 04:51 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 04:51 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 04:51 AM
Surr: 1,2-Dichloroethane-d4	97.3 0	70-127	%REC 1 6/25/2013 04:51 AM
Surr: 1,2-Dichloroethane-d4	92.3 0	70-127	%REC 10 6/25/2013 05:14 AM
Surr: 4-Bromofluorobenzene	90.7 0	80-120	%REC 1 6/25/2013 04:51 AM
Surr: 4-Bromofluorobenzene	87.4 0	80-120	%REC 10 6/25/2013 05:14 AM
Surr: Dibromofluoromethane	98.0 0	73-128	%REC 1 6/25/2013 04:51 AM
Surr: Dibromofluoromethane	95.0 0	73-128	%REC 10 6/25/2013 05:14 AM
Surr: Toluene-d8	96.8 0	80-120	%REC 10 6/25/2013 05:14 AM
Surr: Toluene-d8	96.9 0	80-120	%REC 1 6/25/2013 04:51 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

CLIENT: Cardno ATC	Client Sample ID: MW-19D2
Lab Order: N010420	Collection Date: 6/12/2013 12:42:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-014	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/24/2013 10:41 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/24/2013 10:41 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/24/2013 10:41 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/24/2013 10:41 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/24/2013 10:41 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/24/2013 10:41 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/24/2013 10:41 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/24/2013 10:41 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/24/2013 10:41 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/24/2013 10:41 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 10:41 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/24/2013 10:41 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/24/2013 10:41 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/24/2013 10:41 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/24/2013 10:41 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/24/2013 10:41 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/24/2013 10:41 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/24/2013 10:41 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/24/2013 10:41 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/24/2013 10:41 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/24/2013 10:41 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/24/2013 10:41 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/24/2013 10:41 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/24/2013 10:41 PM
Benzene	ND	0.048	0.50	µg/L	1	6/24/2013 10:41 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/24/2013 10:41 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/24/2013 10:41 PM
Bromoform	6.0	0.18	0.50	µg/L	1	6/24/2013 10:41 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/24/2013 10:41 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/24/2013 10:41 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/24/2013 10:41 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/24/2013 10:41 PM
Chloroform	3.4	0.048	0.50	µg/L	1	6/24/2013 10:41 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/24/2013 10:41 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/24/2013 10:41 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/24/2013 10:41 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-014

Client Sample ID: MW-19D2
Collection Date: 6/12/2013 12:42:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/24/2013 10:41 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/24/2013 10:41 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 10:41 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/24/2013 10:41 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/24/2013 10:41 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/24/2013 10:41 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/24/2013 10:41 PM
MTBE	ND 0.098	0.50	µg/L 1 6/24/2013 10:41 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/24/2013 10:41 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/24/2013 10:41 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/24/2013 10:41 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/24/2013 10:41 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 10:41 PM
Styrene	ND 0.040	0.50	µg/L 1 6/24/2013 10:41 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/24/2013 10:41 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/24/2013 10:41 PM
Toluene	ND 0.034	0.50	µg/L 1 6/24/2013 10:41 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/24/2013 10:41 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/24/2013 10:41 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/24/2013 10:41 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/24/2013 10:41 PM
Surr: 1,2-Dichloroethane-d4	95.4 0	70-127	%REC 1 6/24/2013 10:41 PM
Surr: 4-Bromofluorobenzene	91.6 0	80-120	%REC 1 6/24/2013 10:41 PM
Surr: Dibromofluoromethane	101 0	73-128	%REC 1 6/24/2013 10:41 PM
Surr: Toluene-d8	7.68 0	80-120	S %REC 1 6/24/2013 10:41 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

CLIENT: Cardno ATC	Client Sample ID: MW-19D3
Lab Order: N010420	Collection Date: 6/12/2013 12:01:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-015	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/24/2013 09:32 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/24/2013 09:32 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/24/2013 09:32 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/24/2013 09:32 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/24/2013 09:32 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/24/2013 09:32 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/24/2013 09:32 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/24/2013 09:32 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/24/2013 09:32 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/24/2013 09:32 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 09:32 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/24/2013 09:32 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/24/2013 09:32 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/24/2013 09:32 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/24/2013 09:32 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/24/2013 09:32 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/24/2013 09:32 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/24/2013 09:32 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/24/2013 09:32 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/24/2013 09:32 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/24/2013 09:32 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/24/2013 09:32 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/24/2013 09:32 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/24/2013 09:32 PM
Benzene	ND	0.048	0.50	µg/L	1	6/24/2013 09:32 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/24/2013 09:32 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/24/2013 09:32 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/24/2013 09:32 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/24/2013 09:32 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/24/2013 09:32 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/24/2013 09:32 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/24/2013 09:32 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/24/2013 09:32 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/24/2013 09:32 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/24/2013 09:32 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/24/2013 09:32 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

CLIENT: Cardno ATC	Client Sample ID: MW-19D3
Lab Order: N010420	Collection Date: 6/12/2013 12:01:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-015	

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/24/2013 09:32 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/24/2013 09:32 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 09:32 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/24/2013 09:32 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/24/2013 09:32 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/24/2013 09:32 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/24/2013 09:32 PM
MTBE	ND 0.098	0.50	µg/L 1 6/24/2013 09:32 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/24/2013 09:32 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/24/2013 09:32 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/24/2013 09:32 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/24/2013 09:32 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 09:32 PM
Styrene	ND 0.040	0.50	µg/L 1 6/24/2013 09:32 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/24/2013 09:32 PM
Tetrachloroethene	0.68 0.12	0.50	µg/L 1 6/24/2013 09:32 PM
Toluene	ND 0.034	0.50	µg/L 1 6/24/2013 09:32 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/24/2013 09:32 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/24/2013 09:32 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/24/2013 09:32 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/24/2013 09:32 PM
Surr: 1,2-Dichloroethane-d4	91.5 0	70-127	%REC 1 6/24/2013 09:32 PM
Surr: 4-Bromofluorobenzene	91.7 0	80-120	%REC 1 6/24/2013 09:32 PM
Surr: Dibromofluoromethane	94.1 0	73-128	%REC 1 6/24/2013 09:32 PM
Surr: Toluene-d8	98.6 0	80-120	%REC 1 6/24/2013 09:32 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-016

Client Sample ID: MW-20
Collection Date: 6/12/2013 2:35:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 05:28 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 05:28 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 05:28 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 05:28 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 05:28 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 05:28 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 05:28 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 05:28 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 05:28 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 05:28 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 05:28 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 05:28 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 05:28 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 05:28 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 05:28 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 05:28 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 05:28 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 05:28 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 05:28 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 05:28 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 05:28 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 05:28 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 05:28 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 05:28 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 05:28 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 05:28 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 05:28 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 05:28 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 05:28 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 05:28 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 05:28 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 05:28 PM
Chloroform	0.97	0.048	0.50	µg/L	1	6/21/2013 05:28 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 05:28 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 05:28 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 05:28 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-016

Client Sample ID: MW-20
Collection Date: 6/12/2013 2:35:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/21/2013 05:28 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/21/2013 05:28 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 05:28 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/21/2013 05:28 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/21/2013 05:28 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/21/2013 05:28 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/21/2013 05:28 PM
MTBE	ND	0.098	0.50	µg/L	1	6/21/2013 05:28 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/21/2013 05:28 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/21/2013 05:28 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/21/2013 05:28 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/21/2013 05:28 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 05:28 PM
Styrene	ND	0.040	0.50	µg/L	1	6/21/2013 05:28 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/21/2013 05:28 PM
Tetrachloroethene	660	2.3	10	µg/L	20	6/23/2013 05:38 PM
Toluene	ND	0.034	0.50	µg/L	1	6/21/2013 05:28 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/21/2013 05:28 PM
Trichloroethene	2.1	0.075	0.50	µg/L	1	6/21/2013 05:28 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/21/2013 05:28 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/21/2013 05:28 PM
Surr: 1,2-Dichloroethane-d4	94.4	0	70-127	%REC	1	6/21/2013 05:28 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-127	%REC	20	6/23/2013 05:38 PM
Surr: 4-Bromofluorobenzene	98.6	0	80-120	%REC	1	6/21/2013 05:28 PM
Surr: 4-Bromofluorobenzene	95.9	0	80-120	%REC	20	6/23/2013 05:38 PM
Surr: Dibromofluoromethane	98.3	0	73-128	%REC	1	6/21/2013 05:28 PM
Surr: Dibromofluoromethane	103	0	73-128	%REC	20	6/23/2013 05:38 PM
Surr: Toluene-d8	99.4	0	80-120	%REC	1	6/21/2013 05:28 PM
Surr: Toluene-d8	102	0	80-120	%REC	20	6/23/2013 05:38 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM			
Hexavalent Chromium	1.1	0.024	0.20	µg/L	1	6/19/2013 11:40 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-016

Client Sample ID: MW-20
Collection Date: 6/12/2013 2:35:00 PM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

RunID:	EPA 3010A			EPA 6020		
	QC Batch:			PrepDate:		Analyst:
ICP7_130620B	43253			6/20/2013		CEI
Arsenic	2.4	0.035	0.10	µg/L	1	6/20/2013 07:45 PM
Chromium	1.6	0.17	1.0	µg/L	1	6/20/2013 07:45 PM
Manganese	ND	0.16	0.50	µg/L	1	6/20/2013 07:45 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

CLIENT: Cardno ATC	Client Sample ID: MW-20D1
Lab Order: N010420	Collection Date: 6/12/2013 10:50:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-017	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 08:06 AM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 08:06 AM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 08:06 AM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 08:06 AM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 08:06 AM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 08:06 AM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 08:06 AM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 08:06 AM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 08:06 AM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 08:06 AM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 08:06 AM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 08:06 AM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 08:06 AM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 08:06 AM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 08:06 AM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 08:06 AM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 08:06 AM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 08:06 AM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 08:06 AM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 08:06 AM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 08:06 AM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 08:06 AM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 08:06 AM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 08:06 AM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 08:06 AM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 08:06 AM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 08:06 AM
Bromoform	2.4	0.18	0.50	µg/L	1	6/21/2013 08:06 AM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 08:06 AM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 08:06 AM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 08:06 AM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 08:06 AM
Chloroform	0.61	0.048	0.50	µg/L	1	6/21/2013 08:06 AM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 08:06 AM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 08:06 AM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 08:06 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

CLIENT: Cardno ATC	Client Sample ID: MW-20D1
Lab Order: N010420	Collection Date: 6/12/2013 10:50:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-017	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 08:06 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 08:06 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 08:06 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 08:06 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 08:06 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 08:06 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 08:06 AM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 08:06 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 08:06 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 08:06 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 08:06 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 08:06 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 08:06 AM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 08:06 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 08:06 AM
Tetrachloroethene	110 0.59	2.5	µg/L 5 6/21/2013 02:50 PM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 08:06 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 08:06 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 08:06 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 08:06 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 08:06 AM
Surr: 1,2-Dichloroethane-d4	97.3 0	70-127	%REC 1 6/21/2013 08:06 AM
Surr: 1,2-Dichloroethane-d4	95.0 0	70-127	%REC 5 6/21/2013 02:50 PM
Surr: 4-Bromofluorobenzene	100 0	80-120	%REC 1 6/21/2013 08:06 AM
Surr: 4-Bromofluorobenzene	96.9 0	80-120	%REC 5 6/21/2013 02:50 PM
Surr: Dibromofluoromethane	99.9 0	73-128	%REC 1 6/21/2013 08:06 AM
Surr: Dibromofluoromethane	97.1 0	73-128	%REC 5 6/21/2013 02:50 PM
Surr: Toluene-d8	97.0 0	80-120	%REC 5 6/21/2013 02:50 PM
Surr: Toluene-d8	99.4 0	80-120	%REC 1 6/21/2013 08:06 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

CLIENT: Cardno ATC	Client Sample ID: MW-20D2
Lab Order: N010420	Collection Date: 6/12/2013 10:02:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-018	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 01:50 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 01:50 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 01:50 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 01:50 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 01:50 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 01:50 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 01:50 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 01:50 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 01:50 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 01:50 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 01:50 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 01:50 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 01:50 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 01:50 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 01:50 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 01:50 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 01:50 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 01:50 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 01:50 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 01:50 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 01:50 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 01:50 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 01:50 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 01:50 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 01:50 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 01:50 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 01:50 PM
Bromoform	0.51	0.18	0.50	µg/L	1	6/21/2013 01:50 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 01:50 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 01:50 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 01:50 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 01:50 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/21/2013 01:50 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 01:50 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 01:50 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 01:50 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

CLIENT: Cardno ATC	Client Sample ID: MW-20D2
Lab Order: N010420	Collection Date: 6/12/2013 10:02:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-018	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 01:50 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 01:50 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 01:50 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 01:50 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 01:50 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 01:50 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 01:50 PM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 01:50 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 01:50 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 01:50 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 01:50 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 01:50 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 01:50 PM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 01:50 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 01:50 PM
Tetrachloroethene	64 0.12	0.50	µg/L 1 6/21/2013 01:50 PM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 01:50 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 01:50 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 01:50 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 01:50 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 01:50 PM
Surr: 1,2-Dichloroethane-d4	95.2 0	70-127	%REC 1 6/21/2013 01:50 PM
Surr: 4-Bromofluorobenzene	99.1 0	80-120	%REC 1 6/21/2013 01:50 PM
Surr: Dibromofluoromethane	97.6 0	73-128	%REC 1 6/21/2013 01:50 PM
Surr: Toluene-d8	97.9 0	80-120	%REC 1 6/21/2013 01:50 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-019

Client Sample ID: MW-20D3
Collection Date: 6/12/2013 9:17:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/23/2013 12:37 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/23/2013 12:37 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/23/2013 12:37 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/23/2013 12:37 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/23/2013 12:37 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/23/2013 12:37 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/23/2013 12:37 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/23/2013 12:37 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/23/2013 12:37 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/23/2013 12:37 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 12:37 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/23/2013 12:37 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/23/2013 12:37 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/23/2013 12:37 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/23/2013 12:37 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/23/2013 12:37 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/23/2013 12:37 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/23/2013 12:37 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/23/2013 12:37 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/23/2013 12:37 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/23/2013 12:37 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/23/2013 12:37 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/23/2013 12:37 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/23/2013 12:37 PM
Benzene	ND	0.048	0.50	µg/L	1	6/23/2013 12:37 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/23/2013 12:37 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/23/2013 12:37 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/23/2013 12:37 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/23/2013 12:37 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/23/2013 12:37 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/23/2013 12:37 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/23/2013 12:37 PM
Chloroform	0.59	0.048	0.50	µg/L	1	6/23/2013 12:37 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/23/2013 12:37 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/23/2013 12:37 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/23/2013 12:37 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

CLIENT: Cardno ATC	Client Sample ID: MW-20D3
Lab Order: N010420	Collection Date: 6/12/2013 9:17:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-019	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/23/2013 12:37 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/23/2013 12:37 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 12:37 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/23/2013 12:37 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/23/2013 12:37 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/23/2013 12:37 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/23/2013 12:37 PM
MTBE	ND 0.098	0.50	µg/L 1 6/23/2013 12:37 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/23/2013 12:37 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/23/2013 12:37 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/23/2013 12:37 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/23/2013 12:37 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 12:37 PM
Styrene	ND 0.040	0.50	µg/L 1 6/23/2013 12:37 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/23/2013 12:37 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/23/2013 12:37 PM
Toluene	ND 0.034	0.50	µg/L 1 6/23/2013 12:37 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/23/2013 12:37 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/23/2013 12:37 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/23/2013 12:37 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/23/2013 12:37 PM
Surr: 1,2-Dichloroethane-d4	100 0	70-127	%REC 1 6/23/2013 12:37 PM
Surr: 4-Bromofluorobenzene	94.8 0	80-120	%REC 1 6/23/2013 12:37 PM
Surr: Dibromofluoromethane	102 0	73-128	%REC 1 6/23/2013 12:37 PM
Surr: Toluene-d8	98.4 0	80-120	%REC 1 6/23/2013 12:37 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-020

Client Sample ID: MW-27
Collection Date: 6/10/2013 1:25:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 04:26 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 04:26 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 04:26 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 04:26 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 04:26 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 04:26 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 04:26 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 04:26 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 04:26 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 04:26 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 04:26 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 04:26 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 04:26 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 04:26 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 04:26 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 04:26 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 04:26 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 04:26 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 04:26 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 04:26 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 04:26 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 04:26 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 04:26 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 04:26 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 04:26 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 04:26 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 04:26 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 04:26 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 04:26 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 04:26 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 04:26 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 04:26 PM
Chloroform	2.9	0.048	0.50	µg/L	1	6/21/2013 04:26 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 04:26 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 04:26 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 04:26 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

CLIENT: Cardno ATC	Client Sample ID: MW-27
Lab Order: N010420	Collection Date: 6/10/2013 1:25:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-020	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 04:26 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 04:26 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 04:26 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 04:26 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 04:26 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 04:26 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 04:26 PM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 04:26 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 04:26 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 04:26 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 04:26 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 04:26 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 04:26 PM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 04:26 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 04:26 PM
Tetrachloroethene	300 1.2	5.0	µg/L 10 6/23/2013 01:00 PM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 04:26 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 04:26 PM
Trichloroethene	1.1 0.075	0.50	µg/L 1 6/21/2013 04:26 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 04:26 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 04:26 PM
Surr: 1,2-Dichloroethane-d4	94.2 0	70-127	%REC 10 6/23/2013 01:00 PM
Surr: 1,2-Dichloroethane-d4	93.5 0	70-127	%REC 1 6/21/2013 04:26 PM
Surr: 4-Bromofluorobenzene	97.8 0	80-120	%REC 1 6/21/2013 04:26 PM
Surr: 4-Bromofluorobenzene	88.5 0	80-120	%REC 10 6/23/2013 01:00 PM
Surr: Dibromofluoromethane	97.0 0	73-128	%REC 1 6/21/2013 04:26 PM
Surr: Dibromofluoromethane	96.5 0	73-128	%REC 10 6/23/2013 01:00 PM
Surr: Toluene-d8	99.2 0	80-120	%REC 1 6/21/2013 04:26 PM
Surr: Toluene-d8	97.4 0	80-120	%REC 10 6/23/2013 01:00 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

CLIENT: Cardno ATC	Client Sample ID: MW-34
Lab Order: N010420	Collection Date: 6/11/2013 11:03:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-021	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 04:55 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 04:55 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 04:55 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 04:55 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 04:55 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 04:55 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 04:55 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 04:55 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 04:55 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 04:55 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 04:55 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 04:55 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 04:55 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 04:55 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 04:55 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 04:55 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 04:55 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 04:55 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 04:55 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 04:55 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 04:55 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 04:55 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 04:55 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 04:55 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 04:55 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 04:55 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 04:55 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 04:55 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 04:55 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 04:55 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 04:55 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 04:55 PM
Chloroform	1.8	0.048	0.50	µg/L	1	6/21/2013 04:55 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 04:55 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 04:55 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 04:55 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

CLIENT: Cardno ATC	Client Sample ID: MW-34
Lab Order: N010420	Collection Date: 6/11/2013 11:03:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-021	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 04:55 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 04:55 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 04:55 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 04:55 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 04:55 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 04:55 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 04:55 PM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 04:55 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 04:55 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 04:55 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 04:55 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 04:55 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 04:55 PM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 04:55 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 04:55 PM
Tetrachloroethene	380 1.2	5.0	µg/L 10 6/23/2013 03:18 PM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 04:55 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 04:55 PM
Trichloroethene	0.90 0.075	0.50	µg/L 1 6/21/2013 04:55 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 04:55 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 04:55 PM
Surr: 1,2-Dichloroethane-d4	99.7 0	70-127	%REC 10 6/23/2013 03:18 PM
Surr: 1,2-Dichloroethane-d4	92.6 0	70-127	%REC 1 6/21/2013 04:55 PM
Surr: 4-Bromofluorobenzene	98.8 0	80-120	%REC 1 6/21/2013 04:55 PM
Surr: 4-Bromofluorobenzene	93.8 0	80-120	%REC 10 6/23/2013 03:18 PM
Surr: Dibromofluoromethane	98.5 0	73-128	%REC 1 6/21/2013 04:55 PM
Surr: Dibromofluoromethane	100 0	73-128	%REC 10 6/23/2013 03:18 PM
Surr: Toluene-d8	100 0	80-120	%REC 10 6/23/2013 03:18 PM
Surr: Toluene-d8	98.4 0	80-120	%REC 1 6/21/2013 04:55 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

CLIENT: Cardno ATC	Client Sample ID: MW-35
Lab Order: N010420	Collection Date: 6/11/2013 10:16:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-022	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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Compound Name	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.068	0.50		µg/L	1	6/21/2013 03:51 PM
1,1,1-Trichloroethane	ND	0.072	0.50		µg/L	1	6/21/2013 03:51 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50		µg/L	1	6/21/2013 03:51 PM
1,1,2-Trichloroethane	ND	0.13	0.50		µg/L	1	6/21/2013 03:51 PM
1,1-Dichloroethane	ND	0.062	0.50		µg/L	1	6/21/2013 03:51 PM
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	6/21/2013 03:51 PM
1,1-Dichloropropene	ND	0.073	0.50		µg/L	1	6/21/2013 03:51 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50		µg/L	1	6/21/2013 03:51 PM
1,2,3-Trichloropropane	ND	0.11	0.50		µg/L	1	6/21/2013 03:51 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50		µg/L	1	6/21/2013 03:51 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50		µg/L	1	6/21/2013 03:51 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0		µg/L	1	6/21/2013 03:51 PM
1,2-Dibromoethane	ND	0.090	0.50		µg/L	1	6/21/2013 03:51 PM
1,2-Dichlorobenzene	ND	0.048	0.50		µg/L	1	6/21/2013 03:51 PM
1,2-Dichloroethane	ND	0.044	0.50		µg/L	1	6/21/2013 03:51 PM
1,2-Dichloropropane	ND	0.094	0.50		µg/L	1	6/21/2013 03:51 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50		µg/L	1	6/21/2013 03:51 PM
1,3-Dichlorobenzene	ND	0.061	0.50		µg/L	1	6/21/2013 03:51 PM
1,3-Dichloropropane	ND	0.081	0.50		µg/L	1	6/21/2013 03:51 PM
1,4-Dichlorobenzene	ND	0.078	0.50		µg/L	1	6/21/2013 03:51 PM
2,2-Dichloropropane	ND	0.061	0.50		µg/L	1	6/21/2013 03:51 PM
2-Chlorotoluene	ND	0.054	0.50		µg/L	1	6/21/2013 03:51 PM
4-Chlorotoluene	ND	0.039	0.50		µg/L	1	6/21/2013 03:51 PM
4-Isopropyltoluene	ND	0.044	0.50		µg/L	1	6/21/2013 03:51 PM
Benzene	ND	0.048	0.50		µg/L	1	6/21/2013 03:51 PM
Bromobenzene	ND	0.054	0.50		µg/L	1	6/21/2013 03:51 PM
Bromodichloromethane	ND	0.048	0.50		µg/L	1	6/21/2013 03:51 PM
Bromoform	ND	0.18	0.50		µg/L	1	6/21/2013 03:51 PM
Bromomethane	ND	0.13	1.0		µg/L	1	6/21/2013 03:51 PM
Carbon tetrachloride	ND	0.057	0.50		µg/L	1	6/21/2013 03:51 PM
Chlorobenzene	ND	0.044	0.50		µg/L	1	6/21/2013 03:51 PM
Chloroethane	ND	0.17	1.0		µg/L	1	6/21/2013 03:51 PM
Chloroform	2.3	0.048	0.50		µg/L	1	6/21/2013 03:51 PM
Chloromethane	ND	0.043	0.50		µg/L	1	6/21/2013 03:51 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	6/21/2013 03:51 PM
Dibromochloromethane	ND	0.070	0.50		µg/L	1	6/21/2013 03:51 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

CLIENT: Cardno ATC	Client Sample ID: MW-35
Lab Order: N010420	Collection Date: 6/11/2013 10:16:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-022	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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Dibromomethane	ND	0.11	0.50	µg/L	1	6/21/2013 03:51 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/21/2013 03:51 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 03:51 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/21/2013 03:51 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/21/2013 03:51 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/21/2013 03:51 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/21/2013 03:51 PM
MTBE	ND	0.098	0.50	µg/L	1	6/21/2013 03:51 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/21/2013 03:51 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/21/2013 03:51 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/21/2013 03:51 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/21/2013 03:51 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 03:51 PM
Styrene	ND	0.040	0.50	µg/L	1	6/21/2013 03:51 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/21/2013 03:51 PM
Tetrachloroethene	250	1.2	5.0	µg/L	10	6/23/2013 03:41 PM
Toluene	ND	0.034	0.50	µg/L	1	6/21/2013 03:51 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/21/2013 03:51 PM
Trichloroethene	ND	0.075	0.50	µg/L	1	6/21/2013 03:51 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/21/2013 03:51 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/21/2013 03:51 PM
Surr: 1,2-Dichloroethane-d4	98.8	0	70-127	%REC	10	6/23/2013 03:41 PM
Surr: 1,2-Dichloroethane-d4	95.4	0	70-127	%REC	1	6/21/2013 03:51 PM
Surr: 4-Bromofluorobenzene	97.8	0	80-120	%REC	1	6/21/2013 03:51 PM
Surr: 4-Bromofluorobenzene	94.4	0	80-120	%REC	10	6/23/2013 03:41 PM
Surr: Dibromofluoromethane	97.6	0	73-128	%REC	1	6/21/2013 03:51 PM
Surr: Dibromofluoromethane	102	0	73-128	%REC	10	6/23/2013 03:41 PM
Surr: Toluene-d8	99.2	0	80-120	%REC	1	6/21/2013 03:51 PM
Surr: Toluene-d8	100	0	80-120	%REC	10	6/23/2013 03:41 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

CLIENT: Cardno ATC	Client Sample ID: MW-36
Lab Order: N010420	Collection Date: 6/10/2013 11:45:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-023	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 01:20 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 01:20 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 01:20 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 01:20 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 01:20 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 01:20 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 01:20 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 01:20 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 01:20 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 01:20 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 01:20 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 01:20 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 01:20 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 01:20 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 01:20 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 01:20 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 01:20 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 01:20 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 01:20 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 01:20 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 01:20 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 01:20 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 01:20 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 01:20 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 01:20 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 01:20 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 01:20 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 01:20 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 01:20 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 01:20 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 01:20 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 01:20 PM
Chloroform	1.5	0.048	0.50	µg/L	1	6/21/2013 01:20 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 01:20 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 01:20 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 01:20 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

CLIENT: Cardno ATC	Client Sample ID: MW-36
Lab Order: N010420	Collection Date: 6/10/2013 11:45:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-023	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 01:20 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 01:20 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 01:20 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 01:20 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 01:20 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 01:20 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 01:20 PM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 01:20 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 01:20 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 01:20 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 01:20 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 01:20 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 01:20 PM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 01:20 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 01:20 PM
Tetrachloroethene	110 0.59	2.5	µg/L 5 6/23/2013 01:23 PM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 01:20 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 01:20 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 01:20 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 01:20 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 01:20 PM
Surr: 1,2-Dichloroethane-d4	90.6 0	70-127	%REC 5 6/23/2013 01:23 PM
Surr: 1,2-Dichloroethane-d4	95.1 0	70-127	%REC 1 6/21/2013 01:20 PM
Surr: 4-Bromofluorobenzene	99.8 0	80-120	%REC 1 6/21/2013 01:20 PM
Surr: 4-Bromofluorobenzene	91.9 0	80-120	%REC 5 6/23/2013 01:23 PM
Surr: Dibromofluoromethane	98.9 0	73-128	%REC 1 6/21/2013 01:20 PM
Surr: Dibromofluoromethane	97.1 0	73-128	%REC 5 6/23/2013 01:23 PM
Surr: Toluene-d8	98.1 0	80-120	%REC 1 6/21/2013 01:20 PM
Surr: Toluene-d8	99.0 0	80-120	%REC 5 6/23/2013 01:23 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

CLIENT: Cardno ATC	Client Sample ID: MW-37
Lab Order: N010420	Collection Date: 6/10/2013 10:47:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-024	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 12:50 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 12:50 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 12:50 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 12:50 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 12:50 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 12:50 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 12:50 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 12:50 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 12:50 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 12:50 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 12:50 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 12:50 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 12:50 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 12:50 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 12:50 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 12:50 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 12:50 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 12:50 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 12:50 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 12:50 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 12:50 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 12:50 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 12:50 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 12:50 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 12:50 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 12:50 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 12:50 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 12:50 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 12:50 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 12:50 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 12:50 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 12:50 PM
Chloroform	6.2	0.048	0.50	µg/L	1	6/21/2013 12:50 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 12:50 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 12:50 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 12:50 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

CLIENT: Cardno ATC	Client Sample ID: MW-37
Lab Order: N010420	Collection Date: 6/10/2013 10:47:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-024	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
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Dibromomethane	ND	0.11	0.50	µg/L	1	6/21/2013 12:50 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/21/2013 12:50 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 12:50 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/21/2013 12:50 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/21/2013 12:50 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/21/2013 12:50 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/21/2013 12:50 PM
MTBE	ND	0.098	0.50	µg/L	1	6/21/2013 12:50 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/21/2013 12:50 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/21/2013 12:50 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/21/2013 12:50 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/21/2013 12:50 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 12:50 PM
Styrene	ND	0.040	0.50	µg/L	1	6/21/2013 12:50 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/21/2013 12:50 PM
Tetrachloroethene	37	0.12	0.50	µg/L	1	6/21/2013 12:50 PM
Toluene	ND	0.034	0.50	µg/L	1	6/21/2013 12:50 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/21/2013 12:50 PM
Trichloroethene	ND	0.075	0.50	µg/L	1	6/21/2013 12:50 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/21/2013 12:50 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/21/2013 12:50 PM
Surr: 1,2-Dichloroethane-d4	98.0	0	70-127	%REC	1	6/21/2013 12:50 PM
Surr: 4-Bromofluorobenzene	101	0	80-120	%REC	1	6/21/2013 12:50 PM
Surr: Dibromofluoromethane	100	0	73-128	%REC	1	6/21/2013 12:50 PM
Surr: Toluene-d8	100	0	80-120	%REC	1	6/21/2013 12:50 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

CLIENT: Cardno ATC	Client Sample ID: MW-38
Lab Order: N010420	Collection Date: 6/10/2013 9:50:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-025	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 07:39 AM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 07:39 AM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 07:39 AM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 07:39 AM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 07:39 AM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 07:39 AM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 07:39 AM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 07:39 AM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 07:39 AM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 07:39 AM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 07:39 AM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 07:39 AM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 07:39 AM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 07:39 AM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 07:39 AM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 07:39 AM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 07:39 AM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 07:39 AM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 07:39 AM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 07:39 AM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 07:39 AM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 07:39 AM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 07:39 AM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 07:39 AM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 07:39 AM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 07:39 AM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 07:39 AM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 07:39 AM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 07:39 AM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 07:39 AM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 07:39 AM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 07:39 AM
Chloroform	2.9	0.048	0.50	µg/L	1	6/21/2013 07:39 AM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 07:39 AM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 07:39 AM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 07:39 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

CLIENT: Cardno ATC	Client Sample ID: MW-38
Lab Order: N010420	Collection Date: 6/10/2013 9:50:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-025	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 07:39 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 07:39 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 07:39 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 07:39 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 07:39 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 07:39 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 07:39 AM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 07:39 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 07:39 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 07:39 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 07:39 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 07:39 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 07:39 AM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 07:39 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 07:39 AM
Tetrachloroethene	7.8 0.12	0.50	µg/L 1 6/21/2013 07:39 AM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 07:39 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 07:39 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 07:39 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 07:39 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 07:39 AM
Surr: 1,2-Dichloroethane-d4	98.2 0	70-127	%REC 1 6/21/2013 07:39 AM
Surr: 4-Bromofluorobenzene	101 0	80-120	%REC 1 6/21/2013 07:39 AM
Surr: Dibromofluoromethane	99.4 0	73-128	%REC 1 6/21/2013 07:39 AM
Surr: Toluene-d8	98.4 0	80-120	%REC 1 6/21/2013 07:39 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-026

Client Sample ID: MW-39
Collection Date: 6/10/2013 12:35:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 03:20 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 03:20 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 03:20 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 03:20 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 03:20 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 03:20 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 03:20 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 03:20 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 03:20 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 03:20 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 03:20 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 03:20 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 03:20 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 03:20 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 03:20 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 03:20 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 03:20 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 03:20 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 03:20 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 03:20 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 03:20 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 03:20 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 03:20 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 03:20 PM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 03:20 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 03:20 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 03:20 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 03:20 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 03:20 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 03:20 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 03:20 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 03:20 PM
Chloroform	1.4	0.048	0.50	µg/L	1	6/21/2013 03:20 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 03:20 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 03:20 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 03:20 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

CLIENT: Cardno ATC	Client Sample ID: MW-39
Lab Order: N010420	Collection Date: 6/10/2013 12:35:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-026	

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

EPA 8260B

RunID: MS5_130621A	QC Batch: P13VW096	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 03:20 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 03:20 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 03:20 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 03:20 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 03:20 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 03:20 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 03:20 PM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 03:20 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 03:20 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 03:20 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 03:20 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 03:20 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 03:20 PM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 03:20 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 03:20 PM
Tetrachloroethene	210 1.2	5.0	µg/L 10 6/23/2013 01:46 PM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 03:20 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 03:20 PM
Trichloroethene	0.83 0.075	0.50	µg/L 1 6/21/2013 03:20 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 03:20 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 03:20 PM
Surr: 1,2-Dichloroethane-d4	91.4 0	70-127	%REC 10 6/23/2013 01:46 PM
Surr: 1,2-Dichloroethane-d4	96.4 0	70-127	%REC 1 6/21/2013 03:20 PM
Surr: 4-Bromofluorobenzene	98.0 0	80-120	%REC 1 6/21/2013 03:20 PM
Surr: 4-Bromofluorobenzene	92.2 0	80-120	%REC 10 6/23/2013 01:46 PM
Surr: Dibromofluoromethane	98.6 0	73-128	%REC 1 6/21/2013 03:20 PM
Surr: Dibromofluoromethane	95.9 0	73-128	%REC 10 6/23/2013 01:46 PM
Surr: Toluene-d8	97.2 0	80-120	%REC 1 6/21/2013 03:20 PM
Surr: Toluene-d8	97.8 0	80-120	%REC 10 6/23/2013 01:46 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-30
Lab Order: N010420	Collection Date: 6/13/2013 10:02:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-027	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 12:40 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 12:40 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 12:40 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 12:40 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 12:40 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 12:40 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 12:40 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 12:40 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 12:40 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 12:40 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 12:40 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 12:40 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 12:40 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 12:40 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 12:40 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 12:40 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 12:40 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 12:40 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 12:40 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 12:40 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 12:40 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 12:40 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 12:40 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 12:40 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 12:40 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 12:40 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 12:40 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 12:40 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 12:40 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 12:40 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 12:40 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 12:40 PM
Chloroform	0.89	0.048	0.50	µg/L	1	6/25/2013 12:40 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 12:40 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 12:40 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 12:40 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-30
Lab Order: N010420	Collection Date: 6/13/2013 10:02:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-027	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 12:40 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 12:40 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 12:40 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 12:40 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 12:40 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 12:40 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 12:40 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 12:40 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 12:40 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 12:40 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 12:40 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 12:40 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 12:40 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 12:40 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 12:40 PM
Tetrachloroethene	10 0.12	0.50	µg/L 1 6/25/2013 12:40 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 12:40 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 12:40 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/25/2013 12:40 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 12:40 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 12:40 PM
Surr: 1,2-Dichloroethane-d4	88.7 0	70-127	%REC 1 6/25/2013 12:40 PM
Surr: 4-Bromofluorobenzene	91.3 0	80-120	%REC 1 6/25/2013 12:40 PM
Surr: Dibromofluoromethane	93.6 0	73-128	%REC 1 6/25/2013 12:40 PM
Surr: Toluene-d8	95.6 0	80-120	%REC 1 6/25/2013 12:40 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	140 0.48	4.0	µg/L 20 6/19/2013 01:34 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Arsenic	3.9 0.035	0.10	µg/L 1 6/20/2013 07:51 PM
Chromium	140 0.17	1.0	µg/L 1 6/20/2013 07:51 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-30
Lab Order: N010420	Collection Date: 6/13/2013 10:02:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-027	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Manganese	ND 0.16 0.50	µg/L	1 6/20/2013 07:51 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-028

Client Sample ID: MW-40-35
Collection Date: 6/14/2013 11:40:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 12:17 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 12:17 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 12:17 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 12:17 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 12:17 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 12:17 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 12:17 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 12:17 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 12:17 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 12:17 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 12:17 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 12:17 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 12:17 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 12:17 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 12:17 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 12:17 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 12:17 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 12:17 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 12:17 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 12:17 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 12:17 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 12:17 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 12:17 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 12:17 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 12:17 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 12:17 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 12:17 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 12:17 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 12:17 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 12:17 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 12:17 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 12:17 PM
Chloroform	0.73	0.048	0.50	µg/L	1	6/25/2013 12:17 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 12:17 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 12:17 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 12:17 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
Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: MW-40-35
Lab Order: N010420	Collection Date: 6/14/2013 11:40:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-028	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 12:17 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 12:17 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 12:17 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 12:17 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 12:17 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 12:17 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 12:17 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 12:17 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 12:17 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 12:17 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 12:17 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 12:17 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 12:17 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 12:17 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 12:17 PM
Tetrachloroethene	3.6 0.12	0.50	µg/L 1 6/25/2013 12:17 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 12:17 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 12:17 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/25/2013 12:17 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 12:17 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 12:17 PM
Surr: 1,2-Dichloroethane-d4	88.8 0	70-127	%REC 1 6/25/2013 12:17 PM
Surr: 4-Bromofluorobenzene	90.5 0	80-120	%REC 1 6/25/2013 12:17 PM
Surr: Dibromofluoromethane	93.3 0	73-128	%REC 1 6/25/2013 12:17 PM
Surr: Toluene-d8	99.0 0	80-120	%REC 1 6/25/2013 12:17 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	1.1 0.024	0.20	µg/L 1 6/19/2013 01:56 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Arsenic	4.0 0.035	0.10	µg/L 1 6/20/2013 07:57 PM
Chromium	2.9 0.17	1.0	µg/L 1 6/20/2013 07:57 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-028

Client Sample ID: MW-40-35
Collection Date: 6/14/2013 11:40:00 AM
Matrix: GROUND WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253			PrepDate: 6/20/2013		Analyst: CEI	
Manganese	250	0.80	2.5	µg/L	5	6/24/2013 11:40 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-029

Client Sample ID: MW-40-40
Collection Date: 6/14/2013 2:00:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 01:03 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 01:03 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 01:03 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 01:03 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 01:03 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 01:03 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 01:03 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 01:03 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 01:03 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 01:03 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 01:03 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 01:03 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 01:03 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 01:03 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 01:03 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 01:03 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 01:03 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 01:03 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 01:03 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 01:03 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 01:03 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 01:03 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 01:03 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 01:03 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 01:03 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 01:03 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 01:03 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 01:03 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 01:03 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 01:03 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 01:03 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 01:03 PM
Chloroform	0.95	0.048	0.50	µg/L	1	6/25/2013 01:03 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 01:03 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 01:03 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 01:03 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-40
Lab Order: N010420	Collection Date: 6/14/2013 2:00:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-029	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 01:03 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 01:03 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 01:03 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 01:03 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 01:03 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 01:03 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 01:03 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 01:03 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 01:03 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 01:03 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 01:03 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 01:03 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 01:03 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 01:03 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 01:03 PM
Tetrachloroethene	53 0.12	0.50	µg/L 1 6/25/2013 01:03 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 01:03 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 01:03 PM
Trichloroethene	0.73 0.075	0.50	µg/L 1 6/25/2013 01:03 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 01:03 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 01:03 PM
Surr: 1,2-Dichloroethane-d4	89.2 0	70-127	%REC 1 6/25/2013 01:03 PM
Surr: 4-Bromofluorobenzene	90.6 0	80-120	%REC 1 6/25/2013 01:03 PM
Surr: Dibromofluoromethane	94.6 0	73-128	%REC 1 6/25/2013 01:03 PM
Surr: Toluene-d8	96.1 0	80-120	%REC 1 6/25/2013 01:03 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	22 0.048	0.40	µg/L 2 6/19/2013 02:26 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Arsenic	3.0 0.035	0.10	µg/L 1 6/20/2013 08:02 PM
Chromium	9.8 0.17	1.0	µg/L 1 6/20/2013 08:02 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-40
Lab Order: N010420	Collection Date: 6/14/2013 2:00:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-029	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			EPA 6020			
RunID: ICP7_130620B	QC Batch: 43253			PrepDate:	6/20/2013	Analyst: CEI	
Manganese	26	0.16	0.50		µg/L	1	6/24/2013 11:29 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-45
Lab Order: N010420	Collection Date: 6/17/2013 9:25:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-030	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 01:26 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 01:26 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 01:26 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 01:26 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 01:26 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 01:26 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 01:26 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 01:26 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 01:26 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 01:26 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 01:26 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 01:26 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 01:26 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 01:26 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 01:26 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 01:26 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 01:26 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 01:26 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 01:26 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 01:26 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 01:26 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 01:26 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 01:26 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 01:26 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 01:26 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 01:26 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 01:26 PM
Bromoform	3.4	0.18	0.50	µg/L	1	6/25/2013 01:26 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 01:26 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 01:26 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 01:26 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 01:26 PM
Chloroform	0.83	0.048	0.50	µg/L	1	6/25/2013 01:26 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 01:26 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 01:26 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 01:26 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-45
Lab Order: N010420	Collection Date: 6/17/2013 9:25:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-030	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 01:26 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 01:26 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 01:26 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 01:26 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 01:26 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 01:26 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 01:26 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 01:26 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 01:26 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 01:26 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 01:26 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 01:26 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 01:26 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 01:26 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 01:26 PM
Tetrachloroethene	47 0.12	0.50	µg/L 1 6/25/2013 01:26 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 01:26 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 01:26 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/25/2013 01:26 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 01:26 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 01:26 PM
Surr: 1,2-Dichloroethane-d4	88.7 0	70-127	%REC 1 6/25/2013 01:26 PM
Surr: 4-Bromofluorobenzene	89.1 0	80-120	%REC 1 6/25/2013 01:26 PM
Surr: Dibromofluoromethane	89.9 0	73-128	%REC 1 6/25/2013 01:26 PM
Surr: Toluene-d8	95.0 0	80-120	%REC 1 6/25/2013 01:26 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	43 0.12	1.0	µg/L 5 6/19/2013 02:36 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Arsenic	1.6 0.035	0.10	µg/L 1 6/20/2013 08:08 PM
Chromium	39 0.17	1.0	µg/L 1 6/20/2013 08:08 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-45
Lab Order: N010420	Collection Date: 6/17/2013 9:25:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-030	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Manganese	ND 0.16 0.50	µg/L	1 6/20/2013 08:08 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-50
Lab Order: N010420	Collection Date: 6/17/2013 10:42:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-031	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 01:49 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 01:49 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 01:49 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 01:49 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 01:49 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 01:49 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 01:49 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 01:49 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 01:49 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 01:49 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 01:49 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 01:49 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 01:49 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 01:49 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 01:49 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 01:49 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 01:49 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 01:49 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 01:49 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 01:49 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 01:49 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 01:49 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 01:49 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 01:49 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 01:49 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 01:49 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 01:49 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 01:49 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 01:49 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 01:49 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 01:49 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 01:49 PM
Chloroform	0.68	0.048	0.50	µg/L	1	6/25/2013 01:49 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 01:49 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 01:49 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 01:49 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



**Advanced Technology
 Laboratories, Inc.**

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

CLIENT: Cardno ATC	Client Sample ID: MW-40-50
Lab Order: N010420	Collection Date: 6/17/2013 10:42:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-031	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 01:49 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 01:49 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 01:49 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 01:49 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 01:49 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 01:49 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 01:49 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 01:49 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 01:49 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 01:49 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 01:49 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 01:49 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 01:49 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 01:49 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 01:49 PM
Tetrachloroethene	64 0.12	0.50	µg/L 1 6/25/2013 01:49 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 01:49 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 01:49 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/25/2013 01:49 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 01:49 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 01:49 PM
Surr: 1,2-Dichloroethane-d4	91.1 0	70-127	%REC 1 6/25/2013 01:49 PM
Surr: 4-Bromofluorobenzene	92.3 0	80-120	%REC 1 6/25/2013 01:49 PM
Surr: Dibromofluoromethane	93.7 0	73-128	%REC 1 6/25/2013 01:49 PM
Surr: Toluene-d8	98.8 0	80-120	%REC 1 6/25/2013 01:49 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	8.9 0.024	0.20	µg/L 1 6/19/2013 02:46 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Arsenic	2.2 0.035	0.10	µg/L 1 6/20/2013 08:13 PM
Chromium	8.2 0.17	1.0	µg/L 1 6/20/2013 08:13 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



CLIENT: Cardno ATC	Client Sample ID: MW-40-50
Lab Order: N010420	Collection Date: 6/17/2013 10:42:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-031	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_130620B	QC Batch: 43253	PrepDate: 6/20/2013	Analyst: CEI
Manganese	ND 0.16 0.50	µg/L	1 6/24/2013 11:24 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-55
Lab Order: N010420	Collection Date: 6/17/2013 12:22:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-032	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 03:44 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 03:44 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 03:44 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 03:44 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 03:44 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 03:44 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 03:44 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 03:44 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 03:44 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 03:44 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 03:44 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 03:44 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 03:44 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 03:44 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 03:44 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 03:44 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 03:44 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 03:44 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 03:44 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 03:44 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 03:44 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 03:44 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 03:44 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 03:44 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 03:44 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 03:44 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 03:44 PM
Bromoform	5.5	0.18	0.50	µg/L	1	6/25/2013 03:44 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 03:44 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 03:44 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 03:44 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 03:44 PM
Chloroform	0.83	0.048	0.50	µg/L	1	6/25/2013 03:44 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 03:44 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/25/2013 03:44 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 03:44 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: MW-40-55
Lab Order: N010420	Collection Date: 6/17/2013 12:22:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-032	

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 03:44 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 03:44 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 03:44 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 03:44 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 03:44 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 03:44 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 03:44 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 03:44 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 03:44 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 03:44 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 03:44 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 03:44 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 03:44 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 03:44 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 03:44 PM
Tetrachloroethene	200 0.59	2.5	µg/L 5 6/25/2013 03:21 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 03:44 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 03:44 PM
Trichloroethene	0.57 0.075	0.50	µg/L 1 6/25/2013 03:44 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 03:44 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 03:44 PM
Surr: 1,2-Dichloroethane-d4	82.9 0	70-127	%REC 5 6/25/2013 03:21 PM
Surr: 1,2-Dichloroethane-d4	94.3 0	70-127	%REC 1 6/25/2013 03:44 PM
Surr: 4-Bromofluorobenzene	89.0 0	80-120	%REC 5 6/25/2013 03:21 PM
Surr: 4-Bromofluorobenzene	90.5 0	80-120	%REC 1 6/25/2013 03:44 PM
Surr: Dibromofluoromethane	89.7 0	73-128	%REC 5 6/25/2013 03:21 PM
Surr: Dibromofluoromethane	95.0 0	73-128	%REC 1 6/25/2013 03:44 PM
Surr: Toluene-d8	96.3 0	80-120	%REC 1 6/25/2013 03:44 PM
Surr: Toluene-d8	95.2 0	80-120	%REC 5 6/25/2013 03:21 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	27 0.12	1.0	µg/L 5 6/19/2013 02:56 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-55
Lab Order: N010420	Collection Date: 6/17/2013 12:22:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-032	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

	EPA 3010A			EPA 6020			
RunID: ICP7_130620B	QC Batch: 43253			PrepDate:	6/20/2013	Analyst: CEI	
Arsenic	1.6	0.035	0.10	µg/L	1	6/20/2013 08:19 PM	
Chromium	26	0.17	1.0	µg/L	1	6/20/2013 08:19 PM	
Manganese	ND	0.16	0.50	µg/L	1	6/20/2013 08:19 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-033

Client Sample ID: MW-40-60
Collection Date: 6/17/2013 1:42:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 05:23 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 05:23 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 05:23 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 05:23 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 05:23 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 05:23 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 05:23 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 05:23 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 05:23 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 05:23 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 05:23 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 05:23 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 05:23 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 05:23 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 05:23 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 05:23 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 05:23 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 05:23 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 05:23 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 05:23 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 05:23 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 05:23 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 05:23 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 05:23 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 05:23 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 05:23 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 05:23 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 05:23 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 05:23 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 05:23 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 05:23 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 05:23 PM
Chloroform	1.8	0.048	0.50	µg/L	1	6/25/2013 05:23 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 05:23 PM
cis-1,2-Dichloroethene	3.6	0.057	0.50	µg/L	1	6/25/2013 05:23 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 05:23 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-033

Client Sample ID: MW-40-60
Collection Date: 6/17/2013 1:42:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/25/2013 05:23 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/25/2013 05:23 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 05:23 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/25/2013 05:23 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/25/2013 05:23 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/25/2013 05:23 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/25/2013 05:23 PM
MTBE	ND 0.098	0.50	µg/L 1 6/25/2013 05:23 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/25/2013 05:23 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/25/2013 05:23 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/25/2013 05:23 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/25/2013 05:23 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 05:23 PM
Styrene	ND 0.040	0.50	µg/L 1 6/25/2013 05:23 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/25/2013 05:23 PM
Tetrachloroethene	1000 5.9	25	µg/L 50 6/25/2013 02:12 PM
Toluene	ND 0.034	0.50	µg/L 1 6/25/2013 05:23 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/25/2013 05:23 PM
Trichloroethene	5.9 0.075	0.50	µg/L 1 6/25/2013 05:23 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/25/2013 05:23 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/25/2013 05:23 PM
Surr: 1,2-Dichloroethane-d4	90.0 0	70-127	%REC 1 6/25/2013 05:23 PM
Surr: 1,2-Dichloroethane-d4	85.4 0	70-127	%REC 50 6/25/2013 02:12 PM
Surr: 4-Bromofluorobenzene	88.4 0	80-120	%REC 1 6/25/2013 05:23 PM
Surr: 4-Bromofluorobenzene	88.9 0	80-120	%REC 50 6/25/2013 02:12 PM
Surr: Dibromofluoromethane	93.7 0	73-128	%REC 1 6/25/2013 05:23 PM
Surr: Dibromofluoromethane	89.8 0	73-128	%REC 50 6/25/2013 02:12 PM
Surr: Toluene-d8	98.4 0	80-120	%REC 50 6/25/2013 02:12 PM
Surr: Toluene-d8	91.4 0	80-120	%REC 1 6/25/2013 05:23 PM

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_130619A	QC Batch: R89317	PrepDate:	Analyst: QBM
Hexavalent Chromium	6.6 0.024	0.20	µg/L 1 6/19/2013 01:09 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

CLIENT: Cardno ATC	Client Sample ID: MW-40-60
Lab Order: N010420	Collection Date: 6/17/2013 1:42:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-033	

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

	EPA 3010A			EPA 6020		
RunID: ICP7_130620B	QC Batch: 43253			PrepDate:	6/20/2013	Analyst: CEI
Arsenic	1.4	0.035	0.10	µg/L	1	6/20/2013 08:36 PM
Chromium	5.7	0.17	1.0	µg/L	1	6/20/2013 08:36 PM
Manganese	ND	0.16	0.50	µg/L	1	6/20/2013 08:36 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-034

Client Sample ID: Trip Blank 6/10
Collection Date: 6/10/2013 8:30:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:			Analyst: QBM	
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 12:24 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 12:24 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 12:24 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 12:24 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 12:24 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 12:24 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 12:24 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 12:24 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 12:24 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 12:24 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 12:24 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 12:24 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 12:24 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 12:24 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 12:24 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 12:24 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 12:24 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 12:24 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 12:24 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 12:24 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 12:24 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 12:24 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 12:24 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 12:24 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 12:24 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 12:24 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 12:24 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 12:24 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 12:24 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 12:24 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 12:24 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 12:24 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 12:24 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 12:24 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 12:24 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 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

CLIENT: Cardno ATC	Client Sample ID: Trip Blank 6/10
Lab Order: N010420	Collection Date: 6/10/2013 8:30:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-034	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 12:24 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 12:24 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 12:24 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 12:24 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 12:24 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 12:24 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 12:24 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 12:24 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 12:24 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 12:24 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 12:24 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 12:24 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 12:24 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 12:24 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 12:24 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 12:24 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 12:24 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 12:24 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 12:24 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 12:24 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 12:24 PM
Surr: 1,2-Dichloroethane-d4	117 0	70-127	%REC 1 6/19/2013 12:24 PM
Surr: 4-Bromofluorobenzene	104 0	80-120	%REC 1 6/19/2013 12:24 PM
Surr: Dibromofluoromethane	111 0	73-128	%REC 1 6/19/2013 12:24 PM
Surr: Toluene-d8	105 0	80-120	%REC 1 6/19/2013 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-035

Client Sample ID: Equipment Blank 6/10
Collection Date: 6/10/2013 11:55:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/19/2013 12:51 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/19/2013 12:51 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/19/2013 12:51 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/19/2013 12:51 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/19/2013 12:51 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/19/2013 12:51 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/19/2013 12:51 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/19/2013 12:51 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/19/2013 12:51 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/19/2013 12:51 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 12:51 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/19/2013 12:51 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/19/2013 12:51 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/19/2013 12:51 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/19/2013 12:51 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/19/2013 12:51 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/19/2013 12:51 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/19/2013 12:51 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/19/2013 12:51 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/19/2013 12:51 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/19/2013 12:51 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/19/2013 12:51 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/19/2013 12:51 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/19/2013 12:51 PM
Benzene	ND 0.048	0.50	µg/L 1 6/19/2013 12:51 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/19/2013 12:51 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/19/2013 12:51 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/19/2013 12:51 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/19/2013 12:51 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/19/2013 12:51 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/19/2013 12:51 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/19/2013 12:51 PM
Chloroform	ND 0.048	0.50	µg/L 1 6/19/2013 12:51 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/19/2013 12:51 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/19/2013 12:51 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/19/2013 12:51 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

CLIENT: Cardno ATC	Client Sample ID: Equipment Blank 6/10
Lab Order: N010420	Collection Date: 6/10/2013 11:55:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-035	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 12:51 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 12:51 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 12:51 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 12:51 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 12:51 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 12:51 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 12:51 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 12:51 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 12:51 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 12:51 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 12:51 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 12:51 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 12:51 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 12:51 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 12:51 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 12:51 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 12:51 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 12:51 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 12:51 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 12:51 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 12:51 PM
Surr: 1,2-Dichloroethane-d4	115 0	70-127	%REC 1 6/19/2013 12:51 PM
Surr: 4-Bromofluorobenzene	103 0	80-120	%REC 1 6/19/2013 12:51 PM
Surr: Dibromofluoromethane	110 0	73-128	%REC 1 6/19/2013 12:51 PM
Surr: Toluene-d8	105 0	80-120	%REC 1 6/19/2013 12:51 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-036

Client Sample ID: MW-27 DUP
Collection Date: 6/10/2013 1:25:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/23/2013 07:11 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/23/2013 07:11 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/23/2013 07:11 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/23/2013 07:11 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/23/2013 07:11 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/23/2013 07:11 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/23/2013 07:11 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/23/2013 07:11 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/23/2013 07:11 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/23/2013 07:11 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 07:11 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/23/2013 07:11 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/23/2013 07:11 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/23/2013 07:11 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/23/2013 07:11 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/23/2013 07:11 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/23/2013 07:11 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/23/2013 07:11 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/23/2013 07:11 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/23/2013 07:11 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/23/2013 07:11 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/23/2013 07:11 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/23/2013 07:11 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/23/2013 07:11 PM
Benzene	ND	0.048	0.50	µg/L	1	6/23/2013 07:11 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/23/2013 07:11 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/23/2013 07:11 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/23/2013 07:11 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/23/2013 07:11 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/23/2013 07:11 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/23/2013 07:11 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/23/2013 07:11 PM
Chloroform	3.4	0.048	0.50	µg/L	1	6/23/2013 07:11 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/23/2013 07:11 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/23/2013 07:11 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/23/2013 07:11 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-036

Client Sample ID: MW-27 DUP
Collection Date: 6/10/2013 1:25:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/23/2013 07:11 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/23/2013 07:11 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 07:11 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/23/2013 07:11 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/23/2013 07:11 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/23/2013 07:11 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/23/2013 07:11 PM
MTBE	ND	0.098	0.50	µg/L	1	6/23/2013 07:11 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/23/2013 07:11 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/23/2013 07:11 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/23/2013 07:11 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/23/2013 07:11 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 07:11 PM
Styrene	ND	0.040	0.50	µg/L	1	6/23/2013 07:11 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/23/2013 07:11 PM
Tetrachloroethene	340	1.2	5.0	µg/L	10	6/23/2013 02:09 PM
Toluene	ND	0.034	0.50	µg/L	1	6/23/2013 07:11 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/23/2013 07:11 PM
Trichloroethene	0.96	0.075	0.50	µg/L	1	6/23/2013 07:11 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/23/2013 07:11 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/23/2013 07:11 PM
Surr: 1,2-Dichloroethane-d4	100	0	70-127	%REC	1	6/23/2013 07:11 PM
Surr: 1,2-Dichloroethane-d4	94.6	0	70-127	%REC	10	6/23/2013 02:09 PM
Surr: 4-Bromofluorobenzene	92.0	0	80-120	%REC	1	6/23/2013 07:11 PM
Surr: 4-Bromofluorobenzene	94.0	0	80-120	%REC	10	6/23/2013 02:09 PM
Surr: Dibromofluoromethane	102	0	73-128	%REC	1	6/23/2013 07:11 PM
Surr: Dibromofluoromethane	100	0	73-128	%REC	10	6/23/2013 02:09 PM
Surr: Toluene-d8	97.2	0	80-120	%REC	1	6/23/2013 07:11 PM
Surr: Toluene-d8	99.6	0	80-120	%REC	10	6/23/2013 02:09 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-037

Client Sample ID: Trip Blank 6/11
Collection Date: 6/11/2013 6:35:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:			Analyst: QBM	
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 01:22 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 01:22 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 01:22 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 01:22 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 01:22 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 01:22 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 01:22 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 01:22 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 01:22 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 01:22 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 01:22 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 01:22 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 01:22 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 01:22 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 01:22 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 01:22 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 01:22 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 01:22 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 01:22 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 01:22 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 01:22 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 01:22 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 01:22 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 01:22 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 01:22 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 01:22 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 01:22 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 01:22 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 01:22 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 01:22 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 01:22 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 01:22 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 01:22 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 01:22 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 01:22 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: Trip Blank 6/11
Lab Order: N010420	Collection Date: 6/11/2013 6:35:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-037	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 01:22 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 01:22 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 01:22 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 01:22 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 01:22 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 01:22 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 01:22 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 01:22 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 01:22 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 01:22 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 01:22 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 01:22 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 01:22 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 01:22 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 01:22 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 01:22 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 01:22 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 01:22 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 01:22 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 01:22 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 01:22 PM
Surr: 1,2-Dichloroethane-d4	116 0	70-127	%REC 1 6/19/2013 01:22 PM
Surr: 4-Bromofluorobenzene	104 0	80-120	%REC 1 6/19/2013 01:22 PM
Surr: Dibromofluoromethane	114 0	73-128	%REC 1 6/19/2013 01:22 PM
Surr: Toluene-d8	105 0	80-120	%REC 1 6/19/2013 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/11
Lab Order: N010420	Collection Date: 6/11/2013 9:00:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-038	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 01:52 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 01:52 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 01:52 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 01:52 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 01:52 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 01:52 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 01:52 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 01:52 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 01:52 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 01:52 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 01:52 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 01:52 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 01:52 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 01:52 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 01:52 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 01:52 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 01:52 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 01:52 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 01:52 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 01:52 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 01:52 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 01:52 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 01:52 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 01:52 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 01:52 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 01:52 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 01:52 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 01:52 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 01:52 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 01:52 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 01:52 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 01:52 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 01:52 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 01:52 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 01:52 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 01:52 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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/11
Lab Order: N010420	Collection Date: 6/11/2013 9:00:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-038	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 01:52 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 01:52 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 01:52 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 01:52 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 01:52 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 01:52 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 01:52 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 01:52 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 01:52 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 01:52 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 01:52 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 01:52 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 01:52 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 01:52 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 01:52 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 01:52 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 01:52 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 01:52 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 01:52 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 01:52 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 01:52 PM
Surr: 1,2-Dichloroethane-d4	117 0	70-127	%REC 1 6/19/2013 01:52 PM
Surr: 4-Bromofluorobenzene	103 0	80-120	%REC 1 6/19/2013 01:52 PM
Surr: Dibromofluoromethane	111 0	73-128	%REC 1 6/19/2013 01:52 PM
Surr: Toluene-d8	106 0	80-120	%REC 1 6/19/2013 01:52 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-039

Client Sample ID: Equipment Blank 6/11
Collection Date: 6/11/2013 9:42:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 02:24 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 02:24 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 02:24 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 02:24 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 02:24 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 02:24 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 02:24 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 02:24 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 02:24 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 02:24 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 02:24 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 02:24 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 02:24 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 02:24 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 02:24 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 02:24 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 02:24 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 02:24 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 02:24 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 02:24 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 02:24 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 02:24 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 02:24 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 02:24 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 02:24 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 02:24 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 02:24 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 02:24 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 02:24 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 02:24 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 02:24 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 02:24 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 02:24 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 02:24 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 02:24 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 02:24 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-039

Client Sample ID: Equipment Blank 6/11
Collection Date: 6/11/2013 9:42:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/19/2013 02:24 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/19/2013 02:24 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 02:24 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/19/2013 02:24 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/19/2013 02:24 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/19/2013 02:24 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/19/2013 02:24 PM
MTBE	ND	0.098	0.50	µg/L	1	6/19/2013 02:24 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/19/2013 02:24 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/19/2013 02:24 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/19/2013 02:24 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/19/2013 02:24 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 02:24 PM
Styrene	ND	0.040	0.50	µg/L	1	6/19/2013 02:24 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/19/2013 02:24 PM
Tetrachloroethene	ND	0.12	0.50	µg/L	1	6/19/2013 02:24 PM
Toluene	ND	0.034	0.50	µg/L	1	6/19/2013 02:24 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/19/2013 02:24 PM
Trichloroethene	ND	0.075	0.50	µg/L	1	6/19/2013 02:24 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/19/2013 02:24 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/19/2013 02:24 PM
Surr: 1,2-Dichloroethane-d4	118	0	70-127	%REC	1	6/19/2013 02:24 PM
Surr: 4-Bromofluorobenzene	100	0	80-120	%REC	1	6/19/2013 02:24 PM
Surr: Dibromofluoromethane	111	0	73-128	%REC	1	6/19/2013 02:24 PM
Surr: Toluene-d8	105	0	80-120	%REC	1	6/19/2013 02:24 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

CLIENT: Cardno ATC	Client Sample ID: MW-34 DUP
Lab Order: N010420	Collection Date: 6/11/2013 11:03:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-040	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/23/2013 07:57 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/23/2013 07:57 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/23/2013 07:57 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/23/2013 07:57 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/23/2013 07:57 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/23/2013 07:57 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/23/2013 07:57 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/23/2013 07:57 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/23/2013 07:57 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/23/2013 07:57 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/23/2013 07:57 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/23/2013 07:57 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/23/2013 07:57 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/23/2013 07:57 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/23/2013 07:57 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/23/2013 07:57 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/23/2013 07:57 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/23/2013 07:57 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/23/2013 07:57 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/23/2013 07:57 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/23/2013 07:57 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/23/2013 07:57 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/23/2013 07:57 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/23/2013 07:57 PM
Benzene	ND	0.048	0.50	µg/L	1	6/23/2013 07:57 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/23/2013 07:57 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/23/2013 07:57 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/23/2013 07:57 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/23/2013 07:57 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/23/2013 07:57 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/23/2013 07:57 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/23/2013 07:57 PM
Chloroform	1.9	0.048	0.50	µg/L	1	6/23/2013 07:57 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/23/2013 07:57 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/23/2013 07:57 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/23/2013 07:57 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

CLIENT: Cardno ATC	Client Sample ID: MW-34 DUP
Lab Order: N010420	Collection Date: 6/11/2013 11:03:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-040	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/23/2013 07:57 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/23/2013 07:57 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 07:57 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/23/2013 07:57 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/23/2013 07:57 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/23/2013 07:57 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/23/2013 07:57 PM
MTBE	ND 0.098	0.50	µg/L 1 6/23/2013 07:57 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/23/2013 07:57 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/23/2013 07:57 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/23/2013 07:57 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/23/2013 07:57 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 07:57 PM
Styrene	ND 0.040	0.50	µg/L 1 6/23/2013 07:57 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/23/2013 07:57 PM
Tetrachloroethene	360 1.2	5.0	µg/L 10 6/23/2013 04:05 PM
Toluene	ND 0.034	0.50	µg/L 1 6/23/2013 07:57 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/23/2013 07:57 PM
Trichloroethene	0.77 0.075	0.50	µg/L 1 6/23/2013 07:57 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/23/2013 07:57 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/23/2013 07:57 PM
Surr: 1,2-Dichloroethane-d4	96.8 0	70-127	%REC 10 6/23/2013 04:05 PM
Surr: 1,2-Dichloroethane-d4	102 0	70-127	%REC 1 6/23/2013 07:57 PM
Surr: 4-Bromofluorobenzene	94.9 0	80-120	%REC 1 6/23/2013 07:57 PM
Surr: 4-Bromofluorobenzene	93.8 0	80-120	%REC 10 6/23/2013 04:05 PM
Surr: Dibromofluoromethane	105 0	73-128	%REC 1 6/23/2013 07:57 PM
Surr: Dibromofluoromethane	102 0	73-128	%REC 10 6/23/2013 04:05 PM
Surr: Toluene-d8	99.3 0	80-120	%REC 1 6/23/2013 07:57 PM
Surr: Toluene-d8	100 0	80-120	%REC 10 6/23/2013 04:05 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-041

Client Sample ID: Trip Blank 6/12
Collection Date: 6/12/2013 7:10:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 02:57 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 02:57 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 02:57 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 02:57 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 02:57 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 02:57 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 02:57 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 02:57 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 02:57 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 02:57 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 02:57 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 02:57 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 02:57 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 02:57 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 02:57 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 02:57 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 02:57 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 02:57 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 02:57 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 02:57 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 02:57 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 02:57 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 02:57 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 02:57 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 02:57 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 02:57 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 02:57 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 02:57 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 02:57 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 02:57 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 02:57 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 02:57 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 02:57 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 02:57 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 02:57 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 02:57 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

CLIENT: Cardno ATC	Client Sample ID: Trip Blank 6/12
Lab Order: N010420	Collection Date: 6/12/2013 7:10:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-041	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 02:57 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 02:57 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 02:57 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 02:57 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 02:57 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 02:57 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 02:57 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 02:57 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 02:57 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 02:57 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 02:57 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 02:57 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 02:57 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 02:57 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 02:57 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 02:57 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 02:57 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 02:57 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 02:57 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 02:57 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 02:57 PM
Surr: 1,2-Dichloroethane-d4	118 0	70-127	%REC 1 6/19/2013 02:57 PM
Surr: 4-Bromofluorobenzene	101 0	80-120	%REC 1 6/19/2013 02:57 PM
Surr: Dibromofluoromethane	112 0	73-128	%REC 1 6/19/2013 02:57 PM
Surr: Toluene-d8	103 0	80-120	%REC 1 6/19/2013 02:57 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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/12
Lab Order: N010420	Collection Date: 6/12/2013 10:54:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-042	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 03:29 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 03:29 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 03:29 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 03:29 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 03:29 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 03:29 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 03:29 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 03:29 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 03:29 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 03:29 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 03:29 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 03:29 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 03:29 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 03:29 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 03:29 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 03:29 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 03:29 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 03:29 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 03:29 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 03:29 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 03:29 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 03:29 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 03:29 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 03:29 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 03:29 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 03:29 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 03:29 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 03:29 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 03:29 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 03:29 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 03:29 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 03:29 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 03:29 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 03:29 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 03:29 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 03:29 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	



**Advanced Technology
 Laboratories, Inc.**

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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/12
Lab Order: N010420	Collection Date: 6/12/2013 10:54:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-042	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 03:29 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 03:29 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 03:29 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 03:29 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 03:29 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 03:29 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 03:29 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 03:29 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 03:29 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 03:29 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 03:29 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 03:29 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 03:29 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 03:29 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 03:29 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 03:29 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 03:29 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 03:29 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 03:29 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 03:29 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 03:29 PM
Surr: 1,2-Dichloroethane-d4	116 0	70-127	%REC 1 6/19/2013 03:29 PM
Surr: 4-Bromofluorobenzene	104 0	80-120	%REC 1 6/19/2013 03:29 PM
Surr: Dibromofluoromethane	113 0	73-128	%REC 1 6/19/2013 03:29 PM
Surr: Toluene-d8	106 0	80-120	%REC 1 6/19/2013 03:29 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-043

Client Sample ID: Equipment Blank 6/12
Collection Date: 6/12/2013 1:42:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 04:56 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 04:56 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 04:56 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 04:56 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 04:56 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 04:56 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 04:56 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 04:56 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 04:56 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 04:56 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 04:56 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 04:56 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 04:56 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 04:56 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 04:56 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 04:56 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 04:56 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 04:56 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 04:56 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 04:56 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 04:56 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 04:56 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 04:56 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 04:56 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 04:56 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 04:56 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 04:56 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 04:56 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 04:56 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 04:56 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 04:56 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 04:56 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 04:56 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 04:56 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 04:56 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 04:56 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

CLIENT: Cardno ATC	Client Sample ID: Equipment Blank 6/12
Lab Order: N010420	Collection Date: 6/12/2013 1:42:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-043	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 04:56 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 04:56 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 04:56 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 04:56 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 04:56 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 04:56 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 04:56 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 04:56 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 04:56 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 04:56 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 04:56 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 04:56 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 04:56 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 04:56 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 04:56 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 04:56 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 04:56 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 04:56 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 04:56 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 04:56 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 04:56 PM
Surr: 1,2-Dichloroethane-d4	121 0	70-127	%REC 1 6/19/2013 04:56 PM
Surr: 4-Bromofluorobenzene	104 0	80-120	%REC 1 6/19/2013 04:56 PM
Surr: Dibromofluoromethane	110 0	73-128	%REC 1 6/19/2013 04:56 PM
Surr: Toluene-d8	102 0	80-120	%REC 1 6/19/2013 04:56 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-044

Client Sample ID: MW-20 Dup
Collection Date: 6/12/2013 2:35:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/23/2013 07:34 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/23/2013 07:34 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/23/2013 07:34 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/23/2013 07:34 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/23/2013 07:34 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/23/2013 07:34 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/23/2013 07:34 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/23/2013 07:34 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/23/2013 07:34 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/23/2013 07:34 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 07:34 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/23/2013 07:34 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/23/2013 07:34 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/23/2013 07:34 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/23/2013 07:34 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/23/2013 07:34 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/23/2013 07:34 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/23/2013 07:34 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/23/2013 07:34 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/23/2013 07:34 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/23/2013 07:34 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/23/2013 07:34 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/23/2013 07:34 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/23/2013 07:34 PM
Benzene	ND 0.048	0.50	µg/L 1 6/23/2013 07:34 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/23/2013 07:34 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/23/2013 07:34 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/23/2013 07:34 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/23/2013 07:34 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/23/2013 07:34 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/23/2013 07:34 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/23/2013 07:34 PM
Chloroform	1.1 0.048	0.50	µg/L 1 6/23/2013 07:34 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/23/2013 07:34 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/23/2013 07:34 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/23/2013 07:34 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

CLIENT: Cardno ATC	Client Sample ID: MW-20 Dup
Lab Order: N010420	Collection Date: 6/12/2013 2:35:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-044	

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

EPA 8260B

RunID: MS1_130623A	QC Batch: D13VW020	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/23/2013 07:34 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/23/2013 07:34 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 07:34 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/23/2013 07:34 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/23/2013 07:34 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/23/2013 07:34 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/23/2013 07:34 PM
MTBE	ND 0.098	0.50	µg/L 1 6/23/2013 07:34 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/23/2013 07:34 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/23/2013 07:34 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/23/2013 07:34 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/23/2013 07:34 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/23/2013 07:34 PM
Styrene	ND 0.040	0.50	µg/L 1 6/23/2013 07:34 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/23/2013 07:34 PM
Tetrachloroethene	630 1.2	5.0	µg/L 10 6/23/2013 06:01 PM
Toluene	ND 0.034	0.50	µg/L 1 6/23/2013 07:34 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/23/2013 07:34 PM
Trichloroethene	1.8 0.075	0.50	µg/L 1 6/23/2013 07:34 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/23/2013 07:34 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/23/2013 07:34 PM
Surr: 1,2-Dichloroethane-d4	95.9 0	70-127	%REC 10 6/23/2013 06:01 PM
Surr: 1,2-Dichloroethane-d4	100 0	70-127	%REC 1 6/23/2013 07:34 PM
Surr: 4-Bromofluorobenzene	92.4 0	80-120	%REC 1 6/23/2013 07:34 PM
Surr: 4-Bromofluorobenzene	92.1 0	80-120	%REC 10 6/23/2013 06:01 PM
Surr: Dibromofluoromethane	99.9 0	73-128	%REC 1 6/23/2013 07:34 PM
Surr: Dibromofluoromethane	99.0 0	73-128	%REC 10 6/23/2013 06:01 PM
Surr: Toluene-d8	95.3 0	80-120	%REC 1 6/23/2013 07:34 PM
Surr: Toluene-d8	97.0 0	80-120	%REC 10 6/23/2013 06:01 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-045

Client Sample ID: Equipment Blank 6/14
Collection Date: 6/14/2013 2:30:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/19/2013 05:25 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/19/2013 05:25 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/19/2013 05:25 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/19/2013 05:25 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/19/2013 05:25 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/19/2013 05:25 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/19/2013 05:25 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/19/2013 05:25 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/19/2013 05:25 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/19/2013 05:25 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 05:25 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/19/2013 05:25 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/19/2013 05:25 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/19/2013 05:25 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/19/2013 05:25 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/19/2013 05:25 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/19/2013 05:25 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/19/2013 05:25 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/19/2013 05:25 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/19/2013 05:25 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/19/2013 05:25 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/19/2013 05:25 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/19/2013 05:25 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/19/2013 05:25 PM
Benzene	ND 0.048	0.50	µg/L 1 6/19/2013 05:25 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/19/2013 05:25 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/19/2013 05:25 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/19/2013 05:25 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/19/2013 05:25 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/19/2013 05:25 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/19/2013 05:25 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/19/2013 05:25 PM
Chloroform	ND 0.048	0.50	µg/L 1 6/19/2013 05:25 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/19/2013 05:25 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/19/2013 05:25 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/19/2013 05:25 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

CLIENT: Cardno ATC	Client Sample ID: Equipment Blank 6/14
Lab Order: N010420	Collection Date: 6/14/2013 2:30:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-045	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 05:25 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 05:25 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 05:25 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 05:25 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 05:25 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 05:25 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 05:25 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 05:25 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 05:25 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 05:25 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 05:25 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 05:25 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 05:25 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 05:25 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 05:25 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 05:25 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 05:25 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 05:25 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 05:25 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 05:25 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 05:25 PM
Surr: 1,2-Dichloroethane-d4	119 0	70-127	%REC 1 6/19/2013 05:25 PM
Surr: 4-Bromofluorobenzene	102 0	80-120	%REC 1 6/19/2013 05:25 PM
Surr: Dibromofluoromethane	111 0	73-128	%REC 1 6/19/2013 05:25 PM
Surr: Toluene-d8	104 0	80-120	%REC 1 6/19/2013 05:25 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-046

Client Sample ID: MW-19I Dup
Collection Date: 6/14/2013 3:25:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/24/2013 11:27 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/24/2013 11:27 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/24/2013 11:27 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/24/2013 11:27 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/24/2013 11:27 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/24/2013 11:27 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/24/2013 11:27 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/24/2013 11:27 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/24/2013 11:27 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/24/2013 11:27 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/24/2013 11:27 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/24/2013 11:27 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/24/2013 11:27 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/24/2013 11:27 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/24/2013 11:27 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/24/2013 11:27 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/24/2013 11:27 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/24/2013 11:27 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/24/2013 11:27 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/24/2013 11:27 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/24/2013 11:27 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/24/2013 11:27 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/24/2013 11:27 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/24/2013 11:27 PM
Benzene	ND 0.048	0.50	µg/L 1 6/24/2013 11:27 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/24/2013 11:27 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/24/2013 11:27 PM
Bromoform	2.7 0.18	0.50	µg/L 1 6/24/2013 11:27 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/24/2013 11:27 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/24/2013 11:27 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/24/2013 11:27 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/24/2013 11:27 PM
Chloroform	2.6 0.048	0.50	µg/L 1 6/24/2013 11:27 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/24/2013 11:27 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/24/2013 11:27 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/24/2013 11:27 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-046

Client Sample ID: MW-19I Dup
Collection Date: 6/14/2013 3:25:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130624B	QC Batch: D13VW022	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/24/2013 11:27 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/24/2013 11:27 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 11:27 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/24/2013 11:27 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/24/2013 11:27 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/24/2013 11:27 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/24/2013 11:27 PM
MTBE	ND	0.098	0.50	µg/L	1	6/24/2013 11:27 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/24/2013 11:27 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/24/2013 11:27 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/24/2013 11:27 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/24/2013 11:27 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/24/2013 11:27 PM
Styrene	ND	0.040	0.50	µg/L	1	6/24/2013 11:27 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/24/2013 11:27 PM
Tetrachloroethene	ND	0.12	0.50	µg/L	1	6/24/2013 11:27 PM
Toluene	ND	0.034	0.50	µg/L	1	6/24/2013 11:27 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/24/2013 11:27 PM
Trichloroethene	ND	0.075	0.50	µg/L	1	6/24/2013 11:27 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/24/2013 11:27 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/24/2013 11:27 PM
Surr: 1,2-Dichloroethane-d4	97.5	0	70-127	%REC	1	6/24/2013 11:27 PM
Surr: 4-Bromofluorobenzene	92.2	0	80-120	%REC	1	6/24/2013 11:27 PM
Surr: Dibromofluoromethane	103	0	73-128	%REC	1	6/24/2013 11:27 PM
Surr: Toluene-d8	1.00	0	80-120	S %REC	1	6/24/2013 11:27 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-047

Client Sample ID: Field Blank 6/17
Collection Date: 6/17/2013 8:59:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/19/2013 06:03 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/19/2013 06:03 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/19/2013 06:03 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/19/2013 06:03 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/19/2013 06:03 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/19/2013 06:03 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/19/2013 06:03 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/19/2013 06:03 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/19/2013 06:03 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/19/2013 06:03 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:03 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/19/2013 06:03 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/19/2013 06:03 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/19/2013 06:03 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/19/2013 06:03 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/19/2013 06:03 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/19/2013 06:03 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/19/2013 06:03 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/19/2013 06:03 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/19/2013 06:03 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/19/2013 06:03 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/19/2013 06:03 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/19/2013 06:03 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/19/2013 06:03 PM
Benzene	ND 0.048	0.50	µg/L 1 6/19/2013 06:03 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/19/2013 06:03 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/19/2013 06:03 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/19/2013 06:03 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/19/2013 06:03 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/19/2013 06:03 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/19/2013 06:03 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/19/2013 06:03 PM
Chloroform	ND 0.048	0.50	µg/L 1 6/19/2013 06:03 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/19/2013 06:03 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/19/2013 06:03 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/19/2013 06:03 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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/17
Lab Order: N010420	Collection Date: 6/17/2013 8:59:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-047	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 06:03 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 06:03 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:03 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 06:03 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 06:03 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 06:03 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 06:03 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 06:03 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 06:03 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 06:03 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 06:03 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 06:03 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:03 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 06:03 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 06:03 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 06:03 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 06:03 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 06:03 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 06:03 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 06:03 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 06:03 PM
Surr: 1,2-Dichloroethane-d4	118 0	70-127	%REC 1 6/19/2013 06:03 PM
Surr: 4-Bromofluorobenzene	104 0	80-120	%REC 1 6/19/2013 06:03 PM
Surr: Dibromofluoromethane	111 0	73-128	%REC 1 6/19/2013 06:03 PM
Surr: Toluene-d8	103 0	80-120	%REC 1 6/19/2013 06:03 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-048

Client Sample ID: Trip Blank 6/17
Collection Date: 6/17/2013 7:40:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/19/2013 06:31 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/19/2013 06:31 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/19/2013 06:31 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/19/2013 06:31 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/19/2013 06:31 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/19/2013 06:31 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/19/2013 06:31 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/19/2013 06:31 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/19/2013 06:31 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/19/2013 06:31 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:31 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/19/2013 06:31 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/19/2013 06:31 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/19/2013 06:31 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/19/2013 06:31 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/19/2013 06:31 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/19/2013 06:31 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/19/2013 06:31 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/19/2013 06:31 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/19/2013 06:31 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/19/2013 06:31 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/19/2013 06:31 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/19/2013 06:31 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/19/2013 06:31 PM
Benzene	ND 0.048	0.50	µg/L 1 6/19/2013 06:31 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/19/2013 06:31 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/19/2013 06:31 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/19/2013 06:31 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/19/2013 06:31 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/19/2013 06:31 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/19/2013 06:31 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/19/2013 06:31 PM
Chloroform	ND 0.048	0.50	µg/L 1 6/19/2013 06:31 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/19/2013 06:31 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/19/2013 06:31 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/19/2013 06:31 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-048

Client Sample ID: Trip Blank 6/17
Collection Date: 6/17/2013 7:40:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 06:31 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 06:31 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:31 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 06:31 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 06:31 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 06:31 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 06:31 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 06:31 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 06:31 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 06:31 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 06:31 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 06:31 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:31 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 06:31 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 06:31 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 06:31 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 06:31 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 06:31 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 06:31 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 06:31 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 06:31 PM
Surr: 1,2-Dichloroethane-d4	122 0	70-127	%REC 1 6/19/2013 06:31 PM
Surr: 4-Bromofluorobenzene	106 0	80-120	%REC 1 6/19/2013 06:31 PM
Surr: Dibromofluoromethane	110 0	73-128	%REC 1 6/19/2013 06:31 PM
Surr: Toluene-d8	106 0	80-120	%REC 1 6/19/2013 06:31 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-049

Client Sample ID: Equipment Blank 6/17
Collection Date: 6/17/2013 12:30:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/19/2013 06:59 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/19/2013 06:59 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/19/2013 06:59 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/19/2013 06:59 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/19/2013 06:59 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/19/2013 06:59 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/19/2013 06:59 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/19/2013 06:59 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/19/2013 06:59 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/19/2013 06:59 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:59 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/19/2013 06:59 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/19/2013 06:59 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/19/2013 06:59 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/19/2013 06:59 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/19/2013 06:59 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/19/2013 06:59 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/19/2013 06:59 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/19/2013 06:59 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/19/2013 06:59 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/19/2013 06:59 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/19/2013 06:59 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/19/2013 06:59 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/19/2013 06:59 PM
Benzene	ND 0.048	0.50	µg/L 1 6/19/2013 06:59 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/19/2013 06:59 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/19/2013 06:59 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/19/2013 06:59 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/19/2013 06:59 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/19/2013 06:59 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/19/2013 06:59 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/19/2013 06:59 PM
Chloroform	ND 0.048	0.50	µg/L 1 6/19/2013 06:59 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/19/2013 06:59 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/19/2013 06:59 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/19/2013 06:59 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC	Client Sample ID: Equipment Blank 6/17
Lab Order: N010420	Collection Date: 6/17/2013 12:30:00 PM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-049	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 06:59 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 06:59 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:59 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 06:59 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 06:59 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 06:59 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 06:59 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 06:59 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 06:59 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 06:59 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 06:59 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 06:59 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 06:59 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 06:59 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 06:59 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 06:59 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 06:59 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 06:59 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 06:59 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 06:59 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 06:59 PM
Surr: 1,2-Dichloroethane-d4	122 0	70-127	%REC 1 6/19/2013 06:59 PM
Surr: 4-Bromofluorobenzene	103 0	80-120	%REC 1 6/19/2013 06:59 PM
Surr: Dibromofluoromethane	110 0	73-128	%REC 1 6/19/2013 06:59 PM
Surr: Toluene-d8	105 0	80-120	%REC 1 6/19/2013 06:59 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



Advanced Technology
 Laboratories, Inc.

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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-050

Client Sample ID: MW40CMT-60 Dup
Collection Date: 6/17/2013 1:42:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/25/2013 05:46 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/25/2013 05:46 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/25/2013 05:46 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/25/2013 05:46 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/25/2013 05:46 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/25/2013 05:46 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/25/2013 05:46 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/25/2013 05:46 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/25/2013 05:46 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/25/2013 05:46 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/25/2013 05:46 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/25/2013 05:46 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/25/2013 05:46 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/25/2013 05:46 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/25/2013 05:46 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/25/2013 05:46 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/25/2013 05:46 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/25/2013 05:46 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/25/2013 05:46 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/25/2013 05:46 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/25/2013 05:46 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/25/2013 05:46 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/25/2013 05:46 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/25/2013 05:46 PM
Benzene	ND 0.048	0.50	µg/L 1 6/25/2013 05:46 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/25/2013 05:46 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/25/2013 05:46 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/25/2013 05:46 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/25/2013 05:46 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/25/2013 05:46 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/25/2013 05:46 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/25/2013 05:46 PM
Chloroform	1.8 0.048	0.50	µg/L 1 6/25/2013 05:46 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/25/2013 05:46 PM
cis-1,2-Dichloroethene	3.6 0.057	0.50	µg/L 1 6/25/2013 05:46 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/25/2013 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-050

Client Sample ID: MW40CMT-60 Dup
Collection Date: 6/17/2013 1:42:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/25/2013 05:46 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/25/2013 05:46 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 05:46 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/25/2013 05:46 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/25/2013 05:46 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/25/2013 05:46 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/25/2013 05:46 PM
MTBE	ND	0.098	0.50	µg/L	1	6/25/2013 05:46 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/25/2013 05:46 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/25/2013 05:46 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/25/2013 05:46 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/25/2013 05:46 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 05:46 PM
Styrene	ND	0.040	0.50	µg/L	1	6/25/2013 05:46 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/25/2013 05:46 PM
Tetrachloroethene	870	5.9	25	µg/L	50	6/25/2013 02:35 PM
Toluene	ND	0.034	0.50	µg/L	1	6/25/2013 05:46 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/25/2013 05:46 PM
Trichloroethene	6.1	0.075	0.50	µg/L	1	6/25/2013 05:46 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/25/2013 05:46 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/25/2013 05:46 PM
Surr: 1,2-Dichloroethane-d4	87.1	0	70-127	%REC	50	6/25/2013 02:35 PM
Surr: 1,2-Dichloroethane-d4	93.4	0	70-127	%REC	1	6/25/2013 05:46 PM
Surr: 4-Bromofluorobenzene	93.0	0	80-120	%REC	1	6/25/2013 05:46 PM
Surr: 4-Bromofluorobenzene	88.6	0	80-120	%REC	50	6/25/2013 02:35 PM
Surr: Dibromofluoromethane	96.8	0	73-128	%REC	1	6/25/2013 05:46 PM
Surr: Dibromofluoromethane	89.5	0	73-128	%REC	50	6/25/2013 02:35 PM
Surr: Toluene-d8	93.1	0	80-120	%REC	1	6/25/2013 05:46 PM
Surr: Toluene-d8	95.4	0	80-120	%REC	50	6/25/2013 02:35 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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/14
Lab Order: N010420	Collection Date: 6/14/2013 10:20:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-051	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
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1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/19/2013 07:31 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/19/2013 07:31 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/19/2013 07:31 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/19/2013 07:31 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/19/2013 07:31 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/19/2013 07:31 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/19/2013 07:31 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/19/2013 07:31 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/19/2013 07:31 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/19/2013 07:31 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/19/2013 07:31 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/19/2013 07:31 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/19/2013 07:31 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/19/2013 07:31 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/19/2013 07:31 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/19/2013 07:31 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/19/2013 07:31 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/19/2013 07:31 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/19/2013 07:31 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/19/2013 07:31 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/19/2013 07:31 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/19/2013 07:31 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/19/2013 07:31 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/19/2013 07:31 PM
Benzene	ND	0.048	0.50	µg/L	1	6/19/2013 07:31 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/19/2013 07:31 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/19/2013 07:31 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/19/2013 07:31 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/19/2013 07:31 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/19/2013 07:31 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/19/2013 07:31 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/19/2013 07:31 PM
Chloroform	ND	0.048	0.50	µg/L	1	6/19/2013 07:31 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/19/2013 07:31 PM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/19/2013 07:31 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/19/2013 07:31 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

CLIENT: Cardno ATC	Client Sample ID: Field Blank 6/14
Lab Order: N010420	Collection Date: 6/14/2013 10:20:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-051	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 07:31 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 07:31 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 07:31 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 07:31 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 07:31 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 07:31 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 07:31 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 07:31 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 07:31 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 07:31 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 07:31 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 07:31 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 07:31 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 07:31 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 07:31 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 07:31 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 07:31 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 07:31 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 07:31 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 07:31 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 07:31 PM
Surr: 1,2-Dichloroethane-d4	121 0	70-127	%REC 1 6/19/2013 07:31 PM
Surr: 4-Bromofluorobenzene	103 0	80-120	%REC 1 6/19/2013 07:31 PM
Surr: Dibromofluoromethane	107 0	73-128	%REC 1 6/19/2013 07:31 PM
Surr: Toluene-d8	103 0	80-120	%REC 1 6/19/2013 07:31 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-052

Client Sample ID: Trip blank 6/13
Collection Date: 6/13/2013 7:57:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/19/2013 08:00 PM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/19/2013 08:00 PM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/19/2013 08:00 PM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/19/2013 08:00 PM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/19/2013 08:00 PM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/19/2013 08:00 PM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/19/2013 08:00 PM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/19/2013 08:00 PM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/19/2013 08:00 PM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/19/2013 08:00 PM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 08:00 PM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/19/2013 08:00 PM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/19/2013 08:00 PM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/19/2013 08:00 PM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/19/2013 08:00 PM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/19/2013 08:00 PM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/19/2013 08:00 PM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/19/2013 08:00 PM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/19/2013 08:00 PM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/19/2013 08:00 PM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/19/2013 08:00 PM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/19/2013 08:00 PM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/19/2013 08:00 PM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/19/2013 08:00 PM
Benzene	ND 0.048	0.50	µg/L 1 6/19/2013 08:00 PM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/19/2013 08:00 PM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/19/2013 08:00 PM
Bromoform	ND 0.18	0.50	µg/L 1 6/19/2013 08:00 PM
Bromomethane	ND 0.13	1.0	µg/L 1 6/19/2013 08:00 PM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/19/2013 08:00 PM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/19/2013 08:00 PM
Chloroethane	ND 0.17	1.0	µg/L 1 6/19/2013 08:00 PM
Chloroform	ND 0.048	0.50	µg/L 1 6/19/2013 08:00 PM
Chloromethane	ND 0.043	0.50	µg/L 1 6/19/2013 08:00 PM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/19/2013 08:00 PM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/19/2013 08:00 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

CLIENT: Cardno ATC	Client Sample ID: Trip blank 6/13
Lab Order: N010420	Collection Date: 6/13/2013 7:57:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-052	

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

EPA 8260B

RunID: MS5_130619A	QC Batch: P13VW094	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/19/2013 08:00 PM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/19/2013 08:00 PM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 08:00 PM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/19/2013 08:00 PM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/19/2013 08:00 PM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/19/2013 08:00 PM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/19/2013 08:00 PM
MTBE	ND 0.098	0.50	µg/L 1 6/19/2013 08:00 PM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/19/2013 08:00 PM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/19/2013 08:00 PM
Naphthalene	ND 0.10	0.50	µg/L 1 6/19/2013 08:00 PM
o-Xylene	ND 0.042	0.50	µg/L 1 6/19/2013 08:00 PM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/19/2013 08:00 PM
Styrene	ND 0.040	0.50	µg/L 1 6/19/2013 08:00 PM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/19/2013 08:00 PM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/19/2013 08:00 PM
Toluene	ND 0.034	0.50	µg/L 1 6/19/2013 08:00 PM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/19/2013 08:00 PM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/19/2013 08:00 PM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/19/2013 08:00 PM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/19/2013 08:00 PM
Surr: 1,2-Dichloroethane-d4	120 0	70-127	%REC 1 6/19/2013 08:00 PM
Surr: 4-Bromofluorobenzene	103 0	80-120	%REC 1 6/19/2013 08:00 PM
Surr: Dibromofluoromethane	107 0	73-128	%REC 1 6/19/2013 08:00 PM
Surr: Toluene-d8	103 0	80-120	%REC 1 6/19/2013 08:00 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-053

Client Sample ID: Field blank 6/13
Collection Date: 6/13/2013 9:59:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/21/2013 05:48 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/21/2013 05:48 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/21/2013 05:48 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/21/2013 05:48 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/21/2013 05:48 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/21/2013 05:48 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/21/2013 05:48 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/21/2013 05:48 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/21/2013 05:48 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/21/2013 05:48 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 05:48 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/21/2013 05:48 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/21/2013 05:48 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/21/2013 05:48 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/21/2013 05:48 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/21/2013 05:48 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/21/2013 05:48 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/21/2013 05:48 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/21/2013 05:48 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/21/2013 05:48 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/21/2013 05:48 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/21/2013 05:48 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/21/2013 05:48 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/21/2013 05:48 AM
Benzene	ND 0.048	0.50	µg/L 1 6/21/2013 05:48 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/21/2013 05:48 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/21/2013 05:48 AM
Bromoform	ND 0.18	0.50	µg/L 1 6/21/2013 05:48 AM
Bromomethane	ND 0.13	1.0	µg/L 1 6/21/2013 05:48 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/21/2013 05:48 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/21/2013 05:48 AM
Chloroethane	ND 0.17	1.0	µg/L 1 6/21/2013 05:48 AM
Chloroform	ND 0.048	0.50	µg/L 1 6/21/2013 05:48 AM
Chloromethane	ND 0.043	0.50	µg/L 1 6/21/2013 05:48 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/21/2013 05:48 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/21/2013 05:48 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

CLIENT: Cardno ATC	Client Sample ID: Field blank 6/13
Lab Order: N010420	Collection Date: 6/13/2013 9:59:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-053	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 05:48 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 05:48 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 05:48 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 05:48 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 05:48 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 05:48 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 05:48 AM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 05:48 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 05:48 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 05:48 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 05:48 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 05:48 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 05:48 AM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 05:48 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 05:48 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/21/2013 05:48 AM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 05:48 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 05:48 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 05:48 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 05:48 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 05:48 AM
Surr: 1,2-Dichloroethane-d4	95.4 0	70-127	%REC 1 6/21/2013 05:48 AM
Surr: 4-Bromofluorobenzene	98.6 0	80-120	%REC 1 6/21/2013 05:48 AM
Surr: Dibromofluoromethane	98.8 0	73-128	%REC 1 6/21/2013 05:48 AM
Surr: Toluene-d8	99.4 0	80-120	%REC 1 6/21/2013 05:48 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-054

Client Sample ID: Trip Blank 6/14
Collection Date: 6/14/2013 7:59:00 AM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:			Analyst: QBM	
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/21/2013 06:16 AM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/21/2013 06:16 AM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/21/2013 06:16 AM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/21/2013 06:16 AM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/21/2013 06:16 AM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/21/2013 06:16 AM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/21/2013 06:16 AM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/21/2013 06:16 AM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/21/2013 06:16 AM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/21/2013 06:16 AM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 06:16 AM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/21/2013 06:16 AM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/21/2013 06:16 AM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/21/2013 06:16 AM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/21/2013 06:16 AM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/21/2013 06:16 AM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/21/2013 06:16 AM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/21/2013 06:16 AM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/21/2013 06:16 AM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/21/2013 06:16 AM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/21/2013 06:16 AM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/21/2013 06:16 AM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/21/2013 06:16 AM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/21/2013 06:16 AM
Benzene	ND	0.048	0.50	µg/L	1	6/21/2013 06:16 AM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/21/2013 06:16 AM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/21/2013 06:16 AM
Bromoform	ND	0.18	0.50	µg/L	1	6/21/2013 06:16 AM
Bromomethane	ND	0.13	1.0	µg/L	1	6/21/2013 06:16 AM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/21/2013 06:16 AM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/21/2013 06:16 AM
Chloroethane	ND	0.17	1.0	µg/L	1	6/21/2013 06:16 AM
Chloroform	ND	0.048	0.50	µg/L	1	6/21/2013 06:16 AM
Chloromethane	ND	0.043	0.50	µg/L	1	6/21/2013 06:16 AM
cis-1,2-Dichloroethene	ND	0.057	0.50	µg/L	1	6/21/2013 06:16 AM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/21/2013 06:16 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

CLIENT: Cardno ATC	Client Sample ID: Trip Blank 6/14
Lab Order: N010420	Collection Date: 6/14/2013 7:59:00 AM
Project: Maryland Square Shopping Center, 085.42620.0	Matrix: GROUND WATER
Lab ID: N010420-054	

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
Dibromomethane	ND 0.11	0.50	µg/L 1 6/21/2013 06:16 AM
Dichlorodifluoromethane	ND 0.054	0.50	µg/L 1 6/21/2013 06:16 AM
Ethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 06:16 AM
Hexachlorobutadiene	ND 0.070	0.50	µg/L 1 6/21/2013 06:16 AM
Isopropylbenzene	ND 0.073	0.50	µg/L 1 6/21/2013 06:16 AM
m,p-Xylene	ND 0.14	1.0	µg/L 1 6/21/2013 06:16 AM
Methylene chloride	ND 0.28	2.0	µg/L 1 6/21/2013 06:16 AM
MTBE	ND 0.098	0.50	µg/L 1 6/21/2013 06:16 AM
n-Butylbenzene	ND 0.076	0.50	µg/L 1 6/21/2013 06:16 AM
n-Propylbenzene	ND 0.049	0.50	µg/L 1 6/21/2013 06:16 AM
Naphthalene	ND 0.10	0.50	µg/L 1 6/21/2013 06:16 AM
o-Xylene	ND 0.042	0.50	µg/L 1 6/21/2013 06:16 AM
sec-Butylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 06:16 AM
Styrene	ND 0.040	0.50	µg/L 1 6/21/2013 06:16 AM
tert-Butylbenzene	ND 0.040	0.50	µg/L 1 6/21/2013 06:16 AM
Tetrachloroethene	ND 0.12	0.50	µg/L 1 6/21/2013 06:16 AM
Toluene	ND 0.034	0.50	µg/L 1 6/21/2013 06:16 AM
trans-1,2-Dichloroethene	ND 0.11	0.50	µg/L 1 6/21/2013 06:16 AM
Trichloroethene	ND 0.075	0.50	µg/L 1 6/21/2013 06:16 AM
Trichlorofluoromethane	ND 0.057	0.50	µg/L 1 6/21/2013 06:16 AM
Vinyl chloride	ND 0.082	0.50	µg/L 1 6/21/2013 06:16 AM
Surr: 1,2-Dichloroethane-d4	98.3 0	70-127	%REC 1 6/21/2013 06:16 AM
Surr: 4-Bromofluorobenzene	100 0	80-120	%REC 1 6/21/2013 06:16 AM
Surr: Dibromofluoromethane	100 0	73-128	%REC 1 6/21/2013 06:16 AM
Surr: Toluene-d8	100 0	80-120	%REC 1 6/21/2013 06:16 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-055

Client Sample ID: Equipment Blank 6/13
Collection Date: 6/13/2013 1:37:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND 0.068	0.50	µg/L 1 6/21/2013 06:43 AM
1,1,1-Trichloroethane	ND 0.072	0.50	µg/L 1 6/21/2013 06:43 AM
1,1,2,2-Tetrachloroethane	ND 0.10	0.50	µg/L 1 6/21/2013 06:43 AM
1,1,2-Trichloroethane	ND 0.13	0.50	µg/L 1 6/21/2013 06:43 AM
1,1-Dichloroethane	ND 0.062	0.50	µg/L 1 6/21/2013 06:43 AM
1,1-Dichloroethene	ND 0.16	0.50	µg/L 1 6/21/2013 06:43 AM
1,1-Dichloropropene	ND 0.073	0.50	µg/L 1 6/21/2013 06:43 AM
1,2,3-Trichlorobenzene	ND 0.084	0.50	µg/L 1 6/21/2013 06:43 AM
1,2,3-Trichloropropane	ND 0.11	0.50	µg/L 1 6/21/2013 06:43 AM
1,2,4-Trichlorobenzene	ND 0.10	0.50	µg/L 1 6/21/2013 06:43 AM
1,2,4-Trimethylbenzene	ND 0.036	0.50	µg/L 1 6/21/2013 06:43 AM
1,2-Dibromo-3-chloropropane	ND 0.34	1.0	µg/L 1 6/21/2013 06:43 AM
1,2-Dibromoethane	ND 0.090	0.50	µg/L 1 6/21/2013 06:43 AM
1,2-Dichlorobenzene	ND 0.048	0.50	µg/L 1 6/21/2013 06:43 AM
1,2-Dichloroethane	ND 0.044	0.50	µg/L 1 6/21/2013 06:43 AM
1,2-Dichloropropane	ND 0.094	0.50	µg/L 1 6/21/2013 06:43 AM
1,3,5-Trimethylbenzene	ND 0.054	0.50	µg/L 1 6/21/2013 06:43 AM
1,3-Dichlorobenzene	ND 0.061	0.50	µg/L 1 6/21/2013 06:43 AM
1,3-Dichloropropane	ND 0.081	0.50	µg/L 1 6/21/2013 06:43 AM
1,4-Dichlorobenzene	ND 0.078	0.50	µg/L 1 6/21/2013 06:43 AM
2,2-Dichloropropane	ND 0.061	0.50	µg/L 1 6/21/2013 06:43 AM
2-Chlorotoluene	ND 0.054	0.50	µg/L 1 6/21/2013 06:43 AM
4-Chlorotoluene	ND 0.039	0.50	µg/L 1 6/21/2013 06:43 AM
4-Isopropyltoluene	ND 0.044	0.50	µg/L 1 6/21/2013 06:43 AM
Benzene	ND 0.048	0.50	µg/L 1 6/21/2013 06:43 AM
Bromobenzene	ND 0.054	0.50	µg/L 1 6/21/2013 06:43 AM
Bromodichloromethane	ND 0.048	0.50	µg/L 1 6/21/2013 06:43 AM
Bromoform	ND 0.18	0.50	µg/L 1 6/21/2013 06:43 AM
Bromomethane	ND 0.13	1.0	µg/L 1 6/21/2013 06:43 AM
Carbon tetrachloride	ND 0.057	0.50	µg/L 1 6/21/2013 06:43 AM
Chlorobenzene	ND 0.044	0.50	µg/L 1 6/21/2013 06:43 AM
Chloroethane	ND 0.17	1.0	µg/L 1 6/21/2013 06:43 AM
Chloroform	ND 0.048	0.50	µg/L 1 6/21/2013 06:43 AM
Chloromethane	ND 0.043	0.50	µg/L 1 6/21/2013 06:43 AM
cis-1,2-Dichloroethene	ND 0.057	0.50	µg/L 1 6/21/2013 06:43 AM
Dibromochloromethane	ND 0.070	0.50	µg/L 1 6/21/2013 06:43 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-055

Client Sample ID: Equipment Blank 6/13
Collection Date: 6/13/2013 1:37:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS5_130620A	QC Batch: P13VW095	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/21/2013 06:43 AM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/21/2013 06:43 AM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 06:43 AM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/21/2013 06:43 AM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/21/2013 06:43 AM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/21/2013 06:43 AM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/21/2013 06:43 AM
MTBE	ND	0.098	0.50	µg/L	1	6/21/2013 06:43 AM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/21/2013 06:43 AM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/21/2013 06:43 AM
Naphthalene	ND	0.10	0.50	µg/L	1	6/21/2013 06:43 AM
o-Xylene	ND	0.042	0.50	µg/L	1	6/21/2013 06:43 AM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/21/2013 06:43 AM
Styrene	ND	0.040	0.50	µg/L	1	6/21/2013 06:43 AM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/21/2013 06:43 AM
Tetrachloroethene	ND	0.12	0.50	µg/L	1	6/21/2013 06:43 AM
Toluene	ND	0.034	0.50	µg/L	1	6/21/2013 06:43 AM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/21/2013 06:43 AM
Trichloroethene	ND	0.075	0.50	µg/L	1	6/21/2013 06:43 AM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/21/2013 06:43 AM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/21/2013 06:43 AM
Surr: 1,2-Dichloroethane-d4	98.5	0	70-127	%REC	1	6/21/2013 06:43 AM
Surr: 4-Bromofluorobenzene	101	0	80-120	%REC	1	6/21/2013 06:43 AM
Surr: Dibromofluoromethane	101	0	73-128	%REC	1	6/21/2013 06:43 AM
Surr: Toluene-d8	100	0	80-120	%REC	1	6/21/2013 06:43 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-056

Client Sample ID: MW14I-Dup
Collection Date: 6/13/2013 3:22:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.068	0.50	µg/L	1	6/25/2013 06:31 PM
1,1,1-Trichloroethane	ND	0.072	0.50	µg/L	1	6/25/2013 06:31 PM
1,1,2,2-Tetrachloroethane	ND	0.10	0.50	µg/L	1	6/25/2013 06:31 PM
1,1,2-Trichloroethane	ND	0.13	0.50	µg/L	1	6/25/2013 06:31 PM
1,1-Dichloroethane	ND	0.062	0.50	µg/L	1	6/25/2013 06:31 PM
1,1-Dichloroethene	ND	0.16	0.50	µg/L	1	6/25/2013 06:31 PM
1,1-Dichloropropene	ND	0.073	0.50	µg/L	1	6/25/2013 06:31 PM
1,2,3-Trichlorobenzene	ND	0.084	0.50	µg/L	1	6/25/2013 06:31 PM
1,2,3-Trichloropropane	ND	0.11	0.50	µg/L	1	6/25/2013 06:31 PM
1,2,4-Trichlorobenzene	ND	0.10	0.50	µg/L	1	6/25/2013 06:31 PM
1,2,4-Trimethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:31 PM
1,2-Dibromo-3-chloropropane	ND	0.34	1.0	µg/L	1	6/25/2013 06:31 PM
1,2-Dibromoethane	ND	0.090	0.50	µg/L	1	6/25/2013 06:31 PM
1,2-Dichlorobenzene	ND	0.048	0.50	µg/L	1	6/25/2013 06:31 PM
1,2-Dichloroethane	ND	0.044	0.50	µg/L	1	6/25/2013 06:31 PM
1,2-Dichloropropane	ND	0.094	0.50	µg/L	1	6/25/2013 06:31 PM
1,3,5-Trimethylbenzene	ND	0.054	0.50	µg/L	1	6/25/2013 06:31 PM
1,3-Dichlorobenzene	ND	0.061	0.50	µg/L	1	6/25/2013 06:31 PM
1,3-Dichloropropane	ND	0.081	0.50	µg/L	1	6/25/2013 06:31 PM
1,4-Dichlorobenzene	ND	0.078	0.50	µg/L	1	6/25/2013 06:31 PM
2,2-Dichloropropane	ND	0.061	0.50	µg/L	1	6/25/2013 06:31 PM
2-Chlorotoluene	ND	0.054	0.50	µg/L	1	6/25/2013 06:31 PM
4-Chlorotoluene	ND	0.039	0.50	µg/L	1	6/25/2013 06:31 PM
4-Isopropyltoluene	ND	0.044	0.50	µg/L	1	6/25/2013 06:31 PM
Benzene	ND	0.048	0.50	µg/L	1	6/25/2013 06:31 PM
Bromobenzene	ND	0.054	0.50	µg/L	1	6/25/2013 06:31 PM
Bromodichloromethane	ND	0.048	0.50	µg/L	1	6/25/2013 06:31 PM
Bromoform	ND	0.18	0.50	µg/L	1	6/25/2013 06:31 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/25/2013 06:31 PM
Carbon tetrachloride	ND	0.057	0.50	µg/L	1	6/25/2013 06:31 PM
Chlorobenzene	ND	0.044	0.50	µg/L	1	6/25/2013 06:31 PM
Chloroethane	ND	0.17	1.0	µg/L	1	6/25/2013 06:31 PM
Chloroform	0.80	0.048	0.50	µg/L	1	6/25/2013 06:31 PM
Chloromethane	ND	0.043	0.50	µg/L	1	6/25/2013 06:31 PM
cis-1,2-Dichloroethene	3.6	0.057	0.50	µg/L	1	6/25/2013 06:31 PM
Dibromochloromethane	ND	0.070	0.50	µg/L	1	6/25/2013 06:31 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

CLIENT: Cardno ATC
Lab Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0
Lab ID: N010420-056

Client Sample ID: MW141-Dup
Collection Date: 6/13/2013 3:22:00 PM
Matrix: GROUND WATER

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

EPA 8260B

RunID: MS1_130625A	QC Batch: D13VW023	PrepDate:	Analyst: QBM			
Dibromomethane	ND	0.11	0.50	µg/L	1	6/25/2013 06:31 PM
Dichlorodifluoromethane	ND	0.054	0.50	µg/L	1	6/25/2013 06:31 PM
Ethylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:31 PM
Hexachlorobutadiene	ND	0.070	0.50	µg/L	1	6/25/2013 06:31 PM
Isopropylbenzene	ND	0.073	0.50	µg/L	1	6/25/2013 06:31 PM
m,p-Xylene	ND	0.14	1.0	µg/L	1	6/25/2013 06:31 PM
Methylene chloride	ND	0.28	2.0	µg/L	1	6/25/2013 06:31 PM
MTBE	ND	0.098	0.50	µg/L	1	6/25/2013 06:31 PM
n-Butylbenzene	ND	0.076	0.50	µg/L	1	6/25/2013 06:31 PM
n-Propylbenzene	ND	0.049	0.50	µg/L	1	6/25/2013 06:31 PM
Naphthalene	ND	0.10	0.50	µg/L	1	6/25/2013 06:31 PM
o-Xylene	ND	0.042	0.50	µg/L	1	6/25/2013 06:31 PM
sec-Butylbenzene	ND	0.036	0.50	µg/L	1	6/25/2013 06:31 PM
Styrene	ND	0.040	0.50	µg/L	1	6/25/2013 06:31 PM
tert-Butylbenzene	ND	0.040	0.50	µg/L	1	6/25/2013 06:31 PM
Tetrachloroethene	5000	12	50	µg/L	100	6/25/2013 02:58 PM
Toluene	ND	0.034	0.50	µg/L	1	6/25/2013 06:31 PM
trans-1,2-Dichloroethene	ND	0.11	0.50	µg/L	1	6/25/2013 06:31 PM
Trichloroethene	27	0.075	0.50	µg/L	1	6/25/2013 06:31 PM
Trichlorofluoromethane	ND	0.057	0.50	µg/L	1	6/25/2013 06:31 PM
Vinyl chloride	ND	0.082	0.50	µg/L	1	6/25/2013 06:31 PM
Surr: 1,2-Dichloroethane-d4	88.8	0	70-127	%REC	100	6/25/2013 02:58 PM
Surr: 1,2-Dichloroethane-d4	85.2	0	70-127	%REC	1	6/25/2013 06:31 PM
Surr: 4-Bromofluorobenzene	88.3	0	80-120	%REC	1	6/25/2013 06:31 PM
Surr: 4-Bromofluorobenzene	89.2	0	80-120	%REC	100	6/25/2013 02:58 PM
Surr: Dibromofluoromethane	87.0	0	73-128	%REC	1	6/25/2013 06:31 PM
Surr: Dibromofluoromethane	89.8	0	73-128	%REC	100	6/25/2013 02:58 PM
Surr: Toluene-d8	88.5	0	80-120	%REC	1	6/25/2013 06:31 PM
Surr: Toluene-d8	92.8	0	80-120	%REC	100	6/25/2013 02:58 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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_W

Sample ID: MB-R89317	SampType: MBLK	TestCode: 218.6_W	Units: µg/L	Prep Date:	RunNo: 89317
Client ID: PBW	Batch ID: R89317	TestNo: EPA 218.6		Analysis Date: 6/19/2013	SeqNo: 1597147
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID: LCS-R89317	SampType: LCS	TestCode: 218.6_W	Units: µg/L	Prep Date:	RunNo: 89317
Client ID: LCSW	Batch ID: R89317	TestNo: EPA 218.6		Analysis Date: 6/19/2013	SeqNo: 1597148
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium 5.035 0.20 5.000 0 101 90 110

Sample ID: N010420-027CDUP	SampType: DUP	TestCode: 218.6_W	Units: µg/L	Prep Date:	RunNo: 89317
Client ID: ZZZZZ	Batch ID: R89317	TestNo: EPA 218.6		Analysis Date: 6/19/2013	SeqNo: 1597157
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium 139.034 4.0 139.3 0.223 20

Sample ID: N010420-028CMS	SampType: MS	TestCode: 218.6_W	Units: µg/L	Prep Date:	RunNo: 89317
Client ID: ZZZZZ	Batch ID: R89317	TestNo: EPA 218.6		Analysis Date: 6/19/2013	SeqNo: 1597159
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium 2.016 0.20 1.000 1.068 94.8 90 110

Sample ID: N010420-028CMSD	SampType: MSD	TestCode: 218.6_W	Units: µg/L	Prep Date:	RunNo: 89317
Client ID: ZZZZZ	Batch ID: R89317	TestNo: EPA 218.6		Analysis Date: 6/19/2013	SeqNo: 1597160
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium 2.086 0.20 1.000 1.068 102 90 110 2.016 3.41 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
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Advanced Technology
Laboratories, Inc.

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS

Sample ID: MB-43253	SampType: MBLK	TestCode: 6020_DIS	Units: µg/L	Prep Date: 6/20/2013	RunNo: 89326						
Client ID: PBW	Batch ID: 43253	TestNo: EPA 6020	EPA 3010A	Analysis Date: 6/20/2013	SeqNo: 1597594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Chromium	ND	1.0									
Manganese	ND	0.50									

Sample ID: LCS-43253	SampType: LCS	TestCode: 6020_DIS	Units: µg/L	Prep Date: 6/20/2013	RunNo: 89326						
Client ID: LCSW	Batch ID: 43253	TestNo: EPA 6020	EPA 3010A	Analysis Date: 6/20/2013	SeqNo: 1597595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.856	0.10	10.00	0	98.6	85	115				
Chromium	9.206	1.0	10.00	0	92.1	85	115				
Manganese	100.826	0.50	100.0	0	101	85	115				

Sample ID: N010420-033B-MS	SampType: MS	TestCode: 6020_DIS	Units: µg/L	Prep Date: 6/20/2013	RunNo: 89326						
Client ID: ZZZZZ	Batch ID: 43253	TestNo: EPA 6020	EPA 3010A	Analysis Date: 6/20/2013	SeqNo: 1597609						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.608	0.10	10.00	1.391	92.2	75	125				
Chromium	14.268	1.0	10.00	5.705	85.6	75	125				
Manganese	91.537	0.50	100.0	0	91.5	75	125				

Sample ID: N010420-033B-MSD	SampType: MSD	TestCode: 6020_DIS	Units: µg/L	Prep Date: 6/20/2013	RunNo: 89326						
Client ID: ZZZZZ	Batch ID: 43253	TestNo: EPA 6020	EPA 3010A	Analysis Date: 6/20/2013	SeqNo: 1597610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.876	0.10	10.00	1.391	94.8	75	125	10.61	2.49	20	
Chromium	14.555	1.0	10.00	5.705	88.5	75	125	14.27	1.99	20	
Manganese	93.189	0.50	100.0	0	93.2	75	125	91.54	1.79	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130623LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339
Client ID: LCSW	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597984

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.650	0.50	20.00	0	93.3	77	127				
1,1,1-Trichloroethane	19.220	0.50	20.00	0	96.1	74	122				
1,1,2,2-Tetrachloroethane	19.410	0.50	20.00	0	97.0	70	128				
1,1,2-Trichloroethane	19.890	0.50	20.00	0	99.4	73	120				
1,1-Dichloroethane	20.000	0.50	20.00	0	100	72	120				
1,1-Dichloroethene	19.240	0.50	20.00	0	96.2	69	125				
1,1-Dichloropropene	18.720	0.50	20.00	0	93.6	80	120				
1,2,3-Trichlorobenzene	19.300	0.50	20.00	0	96.5	80	126				
1,2,3-Trichloropropane	17.600	0.50	20.00	0	88.0	68	126				
1,2,4-Trichlorobenzene	19.910	0.50	20.00	0	99.6	80	125				
1,2,4-Trimethylbenzene	18.810	0.50	20.00	0	94.1	80	124				
1,2-Dibromo-3-chloropropane	18.980	1.0	20.00	0	94.9	66	129				
1,2-Dibromoethane	19.580	0.50	20.00	0	97.9	78	120				
1,2-Dichlorobenzene	18.450	0.50	20.00	0	92.2	80	120				
1,2-Dichloroethane	19.750	0.50	20.00	0	98.8	79	120				
1,2-Dichloropropane	20.470	0.50	20.00	0	102	75	120				
1,3,5-Trimethylbenzene	18.660	0.50	20.00	0	93.3	80	122				
1,3-Dichlorobenzene	18.520	0.50	20.00	0	92.6	80	120				
1,3-Dichloropropane	19.110	0.50	20.00	0	95.6	80	120				
1,4-Dichlorobenzene	17.460	0.50	20.00	0	87.3	80	120				
2,2-Dichloropropane	19.510	0.50	20.00	0	97.6	61	151				
2-Chlorotoluene	18.220	0.50	20.00	0	91.1	80	120				
4-Chlorotoluene	18.170	0.50	20.00	0	90.9	80	120				
4-Isopropyltoluene	18.400	0.50	20.00	0	92.0	80	122				
Benzene	19.430	0.50	20.00	0	97.2	80	120				
Bromobenzene	18.670	0.50	20.00	0	93.4	80	120				
Bromodichloromethane	20.030	0.50	20.00	0	100	79	123				
Bromoform	19.450	0.50	20.00	0	97.3	65	141				
Bromomethane	18.050	1.0	20.00	0	90.3	13	175				
Carbon tetrachloride	19.400	0.50	20.00	0	97.0	71	136				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130623LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339
Client ID: LCSW	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597984

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	18.450	0.50	20.00	0	92.2	80	120				
Chloroethane	18.470	1.0	20.00	0	92.4	63	137				
Chloroform	18.970	0.50	20.00	0	94.8	71	120				
Chloromethane	19.080	0.50	20.00	0	95.4	35	145				
cis-1,2-Dichloroethene	19.220	0.50	20.00	0	96.1	74	120				
Dibromochloromethane	19.160	0.50	20.00	0	95.8	74	127				
Dibromomethane	20.020	0.50	20.00	0	100	80	120				
Dichlorodifluoromethane	19.610	0.50	20.00	0	98.0	67	123				
Ethylbenzene	18.550	0.50	20.00	0	92.8	80	120				
Hexachlorobutadiene	17.580	0.50	20.00	0	87.9	80	120				
Isopropylbenzene	18.470	0.50	20.00	0	92.4	80	120				
m,p-Xylene	37.670	1.0	40.00	0	94.2	80	120				
Methylene chloride	19.990	2.0	20.00	0	100	63	126				
MTBE	22.700	0.50	20.00	0	114	68	119				
n-Butylbenzene	18.750	0.50	20.00	0	93.8	80	121				
n-Propylbenzene	18.280	0.50	20.00	0	91.4	80	120				
Naphthalene	19.030	0.50	20.00	0	95.2	74	131				
o-Xylene	19.060	0.50	20.00	0	95.3	80	120				
sec-Butylbenzene	18.210	0.50	20.00	0	91.1	80	120				
Styrene	19.220	0.50	20.00	0	96.1	80	120				
tert-Butylbenzene	18.230	0.50	20.00	0	91.2	80	120				
Tetrachloroethene	18.420	0.50	20.00	0	92.1	80	120				
Toluene	18.730	0.50	20.00	0	93.6	80	120				
trans-1,2-Dichloroethene	20.650	0.50	20.00	0	103	74	120				
Trichloroethene	19.180	0.50	20.00	0	95.9	80	120				
Trichlorofluoromethane	19.320	0.50	20.00	0	96.6	67	135				
Vinyl chloride	19.770	0.50	20.00	0	98.8	72	120				
Surr: 1,2-Dichloroethane-d4	25.390		25.00		102	70	127				
Surr: 4-Bromofluorobenzene	24.840		25.00		99.4	80	120				
Surr: Dibromofluoromethane	25.980		25.00		104	73	128				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130623LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: LCSW	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	24.600	25.00	98.4	80	120
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Sample ID: N010420-019AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: ZZZZZ	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597985						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	19.510	0.50	20.00	0	97.6	67	135				
1,1,1-Trichloroethane	19.650	0.50	20.00	0	98.2	67	131				
1,1,2,2-Tetrachloroethane	20.770	0.50	20.00	0	104	67	131				
1,1,2-Trichloroethane	20.210	0.50	20.00	0	101	73	120				
1,1-Dichloroethane	20.190	0.50	20.00	0	101	69	124				
1,1-Dichloroethene	19.330	0.50	20.00	0	96.7	65	128				
1,1-Dichloropropene	19.070	0.50	20.00	0	95.4	79	120				
1,2,3-Trichlorobenzene	19.610	0.50	20.00	0	98.0	79	124				
1,2,3-Trichloropropane	18.520	0.50	20.00	0	92.6	64	123				
1,2,4-Trichlorobenzene	19.910	0.50	20.00	0	99.6	79	124				
1,2,4-Trimethylbenzene	17.560	0.50	20.00	0	87.8	61	135				
1,2-Dibromo-3-chloropropane	19.810	1.0	20.00	0	99.0	52	140				
1,2-Dibromoethane	20.270	0.50	20.00	0	101	70	122				
1,2-Dichlorobenzene	19.560	0.50	20.00	0	97.8	80	120				
1,2-Dichloroethane	20.180	0.50	20.00	0	101	75	122				
1,2-Dichloropropane	21.060	0.50	20.00	0	105	73	120				
1,3,5-Trimethylbenzene	17.870	0.50	20.00	0	89.4	74	124				
1,3-Dichlorobenzene	19.120	0.50	20.00	0	95.6	80	120				
1,3-Dichloropropane	20.220	0.50	20.00	0	101	78	120				
1,4-Dichlorobenzene	18.660	0.50	20.00	0	93.3	80	120				
2,2-Dichloropropane	20.350	0.50	20.00	0	102	51	154				
2-Chlorotoluene	18.930	0.50	20.00	0	94.6	79	120				
4-Chlorotoluene	19.330	0.50	20.00	0	96.7	80	120				
4-Isopropyltoluene	18.830	0.50	20.00	0	94.2	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-019AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339
Client ID: ZZZZZZ	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597985

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.800	0.50	20.00	0	99.0	72	122				
Bromobenzene	19.300	0.50	20.00	0	96.5	80	120				
Bromodichloromethane	20.900	0.50	20.00	0	104	72	130				
Bromoform	20.250	0.50	20.00	0	101	49	155				
Bromomethane	18.620	1.0	20.00	0	93.1	11	165				
Carbon tetrachloride	19.670	0.50	20.00	0	98.4	60	145				
Chlorobenzene	19.230	0.50	20.00	0	96.2	80	120				
Chloroethane	18.440	1.0	20.00	0	92.2	53	145				
Chloroform	19.420	0.50	20.00	0.5900	94.2	66	130				
Chloromethane	19.380	0.50	20.00	0	96.9	40	137				
cis-1,2-Dichloroethene	19.680	0.50	20.00	0	98.4	73	120				
Dibromochloromethane	19.720	0.50	20.00	0	98.6	60	137				
Dibromomethane	19.990	0.50	20.00	0	100	78	120				
Dichlorodifluoromethane	19.900	0.50	20.00	0	99.5	57	128				
Ethylbenzene	19.150	0.50	20.00	0	95.8	80	120				
Hexachlorobutadiene	18.170	0.50	20.00	0	90.9	74	120				
Isopropylbenzene	19.050	0.50	20.00	0	95.2	80	120				
m,p-Xylene	37.640	1.0	40.00	0	94.1	80	120				
Methylene chloride	19.950	2.0	20.00	0	99.8	59	125				
MTBE	23.280	0.50	20.00	0	116	62	125				
n-Butylbenzene	19.340	0.50	20.00	0	96.7	80	122				
n-Propylbenzene	18.930	0.50	20.00	0	94.6	79	120				
Naphthalene	18.770	0.50	20.00	0	93.8	65	130				
o-Xylene	19.520	0.50	20.00	0	97.6	80	120				
sec-Butylbenzene	18.940	0.50	20.00	0	94.7	80	120				
Styrene	16.520	0.50	20.00	0	82.6	50	138				
tert-Butylbenzene	19.080	0.50	20.00	0	95.4	80	120				
Tetrachloroethene	19.690	0.50	20.00	0	98.4	76	120				
Toluene	19.120	0.50	20.00	0	95.6	78	120				
trans-1,2-Dichloroethene	20.600	0.50	20.00	0	103	72	122				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-019AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: ZZZZZ	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597985						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	19.510	0.50	20.00	0	97.6	76	120				
Trichlorofluoromethane	19.090	0.50	20.00	0	95.4	53	148				
Vinyl chloride	19.540	0.50	20.00	0	97.7	67	120				
Surr: 1,2-Dichloroethane-d4	25.680		25.00		103	70	127				
Surr: 4-Bromofluorobenzene	25.930		25.00		104	80	120				
Surr: Dibromofluoromethane	26.880		25.00		108	73	128				
Surr: Toluene-d8	24.870		25.00		99.5	80	120				

Sample ID: N010420-019AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: ZZZZZ	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.050	0.50	20.00	0	95.2	67	135	19.51	2.39	20	
1,1,1-Trichloroethane	19.210	0.50	20.00	0	96.0	67	131	19.65	2.26	20	
1,1,2,2-Tetrachloroethane	20.340	0.50	20.00	0	102	67	131	20.77	2.09	20	
1,1,2-Trichloroethane	20.140	0.50	20.00	0	101	73	120	20.21	0.347	20	
1,1-Dichloroethane	19.400	0.50	20.00	0	97.0	69	124	20.19	3.99	20	
1,1-Dichloroethene	18.420	0.50	20.00	0	92.1	65	128	19.33	4.82	20	
1,1-Dichloropropene	18.480	0.50	20.00	0	92.4	79	120	19.07	3.14	20	
1,2,3-Trichlorobenzene	18.550	0.50	20.00	0	92.8	79	124	19.61	5.56	20	
1,2,3-Trichloropropane	19.060	0.50	20.00	0	95.3	64	123	18.52	2.87	20	
1,2,4-Trichlorobenzene	19.970	0.50	20.00	0	99.8	79	124	19.91	0.301	20	
1,2,4-Trimethylbenzene	16.300	0.50	20.00	0	81.5	61	135	17.56	7.44	20	
1,2-Dibromo-3-chloropropane	21.530	1.0	20.00	0	108	52	140	19.81	8.32	20	
1,2-Dibromoethane	20.000	0.50	20.00	0	100	70	122	20.27	1.34	20	
1,2-Dichlorobenzene	19.000	0.50	20.00	0	95.0	80	120	19.56	2.90	20	
1,2-Dichloroethane	19.340	0.50	20.00	0	96.7	75	122	20.18	4.25	20	
1,2-Dichloropropane	20.390	0.50	20.00	0	102	73	120	21.06	3.23	20	
1,3,5-Trimethylbenzene	16.630	0.50	20.00	0	83.2	74	124	17.87	7.19	20	
1,3-Dichlorobenzene	18.690	0.50	20.00	0	93.5	80	120	19.12	2.27	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-019AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339
Client ID: ZZZZZ	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	20.120	0.50	20.00	0	101	78	120	20.22	0.496	20	
1,4-Dichlorobenzene	17.580	0.50	20.00	0	87.9	80	120	18.66	5.96	20	
2,2-Dichloropropane	19.910	0.50	20.00	0	99.6	51	154	20.35	2.19	20	
2-Chlorotoluene	18.100	0.50	20.00	0	90.5	79	120	18.93	4.48	20	
4-Chlorotoluene	18.400	0.50	20.00	0	92.0	80	120	19.33	4.93	20	
4-Isopropyltoluene	18.350	0.50	20.00	0	91.8	80	120	18.83	2.58	20	
Benzene	18.950	0.50	20.00	0	94.8	72	122	19.80	4.39	20	
Bromobenzene	18.730	0.50	20.00	0	93.6	80	120	19.30	3.00	20	
Bromodichloromethane	20.200	0.50	20.00	0	101	72	130	20.90	3.41	20	
Bromoform	20.570	0.50	20.00	0	103	49	155	20.25	1.57	20	
Bromomethane	18.020	1.0	20.00	0	90.1	11	165	18.62	3.28	20	
Carbon tetrachloride	19.260	0.50	20.00	0	96.3	60	145	19.67	2.11	20	
Chlorobenzene	18.910	0.50	20.00	0	94.6	80	120	19.23	1.68	20	
Chloroethane	17.780	1.0	20.00	0	88.9	53	145	18.44	3.64	20	
Chloroform	18.640	0.50	20.00	0.5900	90.3	66	130	19.42	4.10	20	
Chloromethane	18.400	0.50	20.00	0	92.0	40	137	19.38	5.19	20	
cis-1,2-Dichloroethene	19.170	0.50	20.00	0	95.9	73	120	19.68	2.63	20	
Dibromochloromethane	19.390	0.50	20.00	0	97.0	60	137	19.72	1.69	20	
Dibromomethane	20.510	0.50	20.00	0	103	78	120	19.99	2.57	20	
Dichlorodifluoromethane	19.180	0.50	20.00	0	95.9	57	128	19.90	3.68	20	
Ethylbenzene	18.420	0.50	20.00	0	92.1	80	120	19.15	3.89	20	
Hexachlorobutadiene	18.200	0.50	20.00	0	91.0	74	120	18.17	0.165	20	
Isopropylbenzene	18.410	0.50	20.00	0	92.0	80	120	19.05	3.42	20	
m,p-Xylene	36.400	1.0	40.00	0	91.0	80	120	37.64	3.35	20	
Methylene chloride	19.330	2.0	20.00	0	96.7	59	125	19.95	3.16	20	
MTBE	23.210	0.50	20.00	0	116	62	125	23.28	0.301	20	
n-Butylbenzene	18.890	0.50	20.00	0	94.4	80	122	19.34	2.35	20	
n-Propylbenzene	18.450	0.50	20.00	0	92.2	79	120	18.93	2.57	20	
Naphthalene	17.740	0.50	20.00	0	88.7	65	130	18.77	5.64	20	
o-Xylene	18.880	0.50	20.00	0	94.4	80	120	19.52	3.33	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-019AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: ZZZZZ	Batch ID: D13VW020	TestNo: EPA 8260B	Analysis Date: 6/23/2013	SeqNo: 1597986							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	18.470	0.50	20.00	0	92.4	80	120	18.94	2.51	20	
Styrene	14.420	0.50	20.00	0	72.1	50	138	16.52	13.6	20	
tert-Butylbenzene	18.710	0.50	20.00	0	93.6	80	120	19.08	1.96	20	
Tetrachloroethene	18.660	0.50	20.00	0	93.3	76	120	19.69	5.37	20	
Toluene	18.190	0.50	20.00	0	91.0	78	120	19.12	4.99	20	
trans-1,2-Dichloroethene	19.610	0.50	20.00	0	98.0	72	122	20.60	4.92	20	
Trichloroethene	18.990	0.50	20.00	0	95.0	76	120	19.51	2.70	20	
Trichlorofluoromethane	18.480	0.50	20.00	0	92.4	53	148	19.09	3.25	20	
Vinyl chloride	18.890	0.50	20.00	0	94.4	67	120	19.54	3.38	20	
Surr: 1,2-Dichloroethane-d4	25.060		25.00		100	70	127		0		
Surr: 4-Bromofluorobenzene	24.960		25.00		99.8	80	120		0		
Surr: Dibromofluoromethane	24.800		25.00		99.2	73	128		0		
Surr: Toluene-d8	23.810		25.00		95.2	80	120		0		

Sample ID: D130623MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: PBW	Batch ID: D13VW020	TestNo: EPA 8260B	Analysis Date: 6/23/2013	SeqNo: 1597987							
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									

Qualifiers:

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|---|--|--|
| 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 | |



Advanced Technology
Laboratories, Inc.

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130623MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: PBW	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597987						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	1.0									
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									

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130623MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89339						
Client ID: PBW	Batch ID: D13VW020	TestNo: EPA 8260B		Analysis Date: 6/23/2013	SeqNo: 1597987						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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									
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	23.920		25.00		95.7	70	127				
Surr: 4-Bromofluorobenzene	23.800		25.00		95.2	80	120				
Surr: Dibromofluoromethane	24.630		25.00		98.5	73	128				
Surr: Toluene-d8	24.800		25.00		99.2	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130624LCS2	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361
Client ID: LCSW	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599477

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	17.970	0.50	20.00	0	89.8	77	127				
1,1,1-Trichloroethane	17.710	0.50	20.00	0	88.6	74	122				
1,1,2,2-Tetrachloroethane	19.770	0.50	20.00	0	98.8	70	128				
1,1,2-Trichloroethane	19.320	0.50	20.00	0	96.6	73	120				
1,1-Dichloroethane	18.930	0.50	20.00	0	94.6	72	120				
1,1-Dichloroethene	17.040	0.50	20.00	0	85.2	69	125				
1,1-Dichloropropene	18.180	0.50	20.00	0	90.9	80	120				
1,2,3-Trichlorobenzene	18.140	0.50	20.00	0	90.7	80	126				
1,2,3-Trichloropropane	18.760	0.50	20.00	0	93.8	68	126				
1,2,4-Trichlorobenzene	19.020	0.50	20.00	0	95.1	80	125				
1,2,4-Trimethylbenzene	18.490	0.50	20.00	0	92.5	80	124				
1,2-Dibromo-3-chloropropane	18.380	1.0	20.00	0	91.9	66	129				
1,2-Dibromoethane	18.600	0.50	20.00	0	93.0	78	120				
1,2-Dichlorobenzene	18.180	0.50	20.00	0	90.9	80	120				
1,2-Dichloroethane	18.410	0.50	20.00	0	92.0	79	120				
1,2-Dichloropropane	20.220	0.50	20.00	0	101	75	120				
1,3,5-Trimethylbenzene	18.120	0.50	20.00	0	90.6	80	122				
1,3-Dichlorobenzene	18.060	0.50	20.00	0	90.3	80	120				
1,3-Dichloropropane	19.180	0.50	20.00	0	95.9	80	120				
1,4-Dichlorobenzene	17.590	0.50	20.00	0	88.0	80	120				
2,2-Dichloropropane	22.270	0.50	20.00	0	111	61	151				
2-Chlorotoluene	17.750	0.50	20.00	0	88.8	80	120				
4-Chlorotoluene	18.280	0.50	20.00	0	91.4	80	120				
4-Isopropyltoluene	18.050	0.50	20.00	0	90.3	80	122				
Benzene	19.480	0.50	20.00	0	97.4	80	120				
Bromobenzene	18.780	0.50	20.00	0	93.9	80	120				
Bromodichloromethane	18.320	0.50	20.00	0	91.6	79	123				
Bromoform	17.710	0.50	20.00	0	88.6	65	141				
Bromomethane	15.700	1.0	20.00	0	78.5	13	175				
Carbon tetrachloride	17.170	0.50	20.00	0	85.9	71	136				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130624LCS2	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361
Client ID: LCSW	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599477

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	18.630	0.50	20.00	0	93.2	80	120				
Chloroethane	16.770	1.0	20.00	0	83.9	63	137				
Chloroform	16.960	0.50	20.00	0	84.8	71	120				
Chloromethane	18.870	0.50	20.00	0	94.4	35	145				
cis-1,2-Dichloroethene	17.700	0.50	20.00	0	88.5	74	120				
Dibromochloromethane	17.450	0.50	20.00	0	87.2	74	127				
Dibromomethane	18.340	0.50	20.00	0	91.7	80	120				
Dichlorodifluoromethane	17.150	0.50	20.00	0	85.8	67	123				
Ethylbenzene	18.300	0.50	20.00	0	91.5	80	120				
Hexachlorobutadiene	17.000	0.50	20.00	0	85.0	80	120				
Isopropylbenzene	18.160	0.50	20.00	0	90.8	80	120				
m,p-Xylene	36.880	1.0	40.00	0	92.2	80	120				
Methylene chloride	18.770	2.0	20.00	0	93.8	63	126				
MTBE	24.360	0.50	20.00	0	122	68	119				S
n-Butylbenzene	18.240	0.50	20.00	0	91.2	80	121				
n-Propylbenzene	18.050	0.50	20.00	0	90.3	80	120				
Naphthalene	17.850	0.50	20.00	0	89.2	74	131				
o-Xylene	18.220	0.50	20.00	0	91.1	80	120				
sec-Butylbenzene	18.160	0.50	20.00	0	90.8	80	120				
Styrene	18.540	0.50	20.00	0	92.7	80	120				
tert-Butylbenzene	18.090	0.50	20.00	0	90.4	80	120				
Tetrachloroethene	17.890	0.50	20.00	0	89.4	80	120				
Toluene	18.270	0.50	20.00	0	91.4	80	120				
trans-1,2-Dichloroethene	19.110	0.50	20.00	0	95.6	74	120				
Trichloroethene	19.470	0.50	20.00	0	97.4	80	120				
Trichlorofluoromethane	16.030	0.50	20.00	0	80.2	67	135				
Vinyl chloride	18.310	0.50	20.00	0	91.6	72	120				
Surr: 1,2-Dichloroethane-d4	22.070		25.00		88.3	70	127				
Surr: 4-Bromofluorobenzene	23.070		25.00		92.3	80	120				
Surr: Dibromofluoromethane	22.620		25.00		90.5	73	128				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130624LCS2	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: LCSW	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	23.890	25.00	95.6	80	120
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Sample ID: N010420-013AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	20.060	0.50	20.00	0	100	67	135				
1,1,1-Trichloroethane	19.380	0.50	20.00	0	96.9	67	131				
1,1,2,2-Tetrachloroethane	20.230	0.50	20.00	0	101	67	131				
1,1,2-Trichloroethane	20.900	0.50	20.00	0	104	73	120				
1,1-Dichloroethane	20.870	0.50	20.00	0	104	69	124				
1,1-Dichloroethene	17.600	0.50	20.00	0	88.0	65	128				
1,1-Dichloropropene	18.570	0.50	20.00	0	92.8	79	120				
1,2,3-Trichlorobenzene	18.510	0.50	20.00	0	92.6	79	124				
1,2,3-Trichloropropane	18.870	0.50	20.00	0	94.4	64	123				
1,2,4-Trichlorobenzene	20.040	0.50	20.00	0	100	79	124				
1,2,4-Trimethylbenzene	18.770	0.50	20.00	0	93.8	61	135				
1,2-Dibromo-3-chloropropane	18.560	1.0	20.00	0	92.8	52	140				
1,2-Dibromoethane	20.090	0.50	20.00	0	100	70	122				
1,2-Dichlorobenzene	19.860	0.50	20.00	0	99.3	80	120				
1,2-Dichloroethane	18.530	0.50	20.00	0	92.6	75	122				
1,2-Dichloropropane	21.840	0.50	20.00	0	109	73	120				
1,3,5-Trimethylbenzene	18.760	0.50	20.00	0	93.8	74	124				
1,3-Dichlorobenzene	19.130	0.50	20.00	0	95.7	80	120				
1,3-Dichloropropane	20.600	0.50	20.00	0	103	78	120				
1,4-Dichlorobenzene	18.200	0.50	20.00	0	91.0	80	120				
2,2-Dichloropropane	23.980	0.50	20.00	0	120	51	154				
2-Chlorotoluene	18.470	0.50	20.00	0	92.4	79	120				
4-Chlorotoluene	18.550	0.50	20.00	0	92.8	80	120				
4-Isopropyltoluene	18.390	0.50	20.00	0	92.0	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-013AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599478

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.330	0.50	20.00	0	102	72	122				
Bromobenzene	19.840	0.50	20.00	0	99.2	80	120				
Bromodichloromethane	19.490	0.50	20.00	0	97.5	72	130				
Bromoform	18.930	0.50	20.00	0	94.6	49	155				
Bromomethane	17.290	1.0	20.00	0	86.5	11	165				
Carbon tetrachloride	18.310	0.50	20.00	0	91.6	60	145				
Chlorobenzene	19.610	0.50	20.00	0	98.0	80	120				
Chloroethane	17.100	1.0	20.00	0	85.5	53	145				
Chloroform	21.490	0.50	20.00	1.900	98.0	66	130				
Chloromethane	20.810	0.50	20.00	0	104	40	137				
cis-1,2-Dichloroethene	20.280	0.50	20.00	0	101	73	120				
Dibromochloromethane	19.210	0.50	20.00	0	96.0	60	137				
Dibromomethane	18.960	0.50	20.00	0	94.8	78	120				
Dichlorodifluoromethane	18.440	0.50	20.00	0	92.2	57	128				
Ethylbenzene	19.150	0.50	20.00	0	95.8	80	120				
Hexachlorobutadiene	17.230	0.50	20.00	0	86.2	74	120				
Isopropylbenzene	18.920	0.50	20.00	0	94.6	80	120				
m,p-Xylene	38.010	1.0	40.00	0	95.0	80	120				
Methylene chloride	20.980	2.0	20.00	0	105	59	125				
MTBE	27.690	0.50	20.00	0	138	62	125				S
n-Butylbenzene	18.520	0.50	20.00	0	92.6	80	122				
n-Propylbenzene	18.730	0.50	20.00	0	93.6	79	120				
Naphthalene	17.950	0.50	20.00	0	89.8	65	130				
o-Xylene	19.600	0.50	20.00	0	98.0	80	120				
sec-Butylbenzene	18.620	0.50	20.00	0	93.1	80	120				
Styrene	18.450	0.50	20.00	0	92.2	50	138				
tert-Butylbenzene	18.740	0.50	20.00	0	93.7	80	120				
Toluene	19.050	0.50	20.00	0	95.2	78	120				
trans-1,2-Dichloroethene	21.410	0.50	20.00	0	107	72	122				
Trichloroethene	23.650	0.50	20.00	4.160	97.5	76	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
 Work Order: N010420
 Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-013AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	17.680	0.50	20.00	0	88.4	53	148				
Vinyl chloride	19.750	0.50	20.00	0	98.8	67	120				
Surr: 1,2-Dichloroethane-d4	24.790		25.00		99.2	70	127				
Surr: 4-Bromofluorobenzene	24.710		25.00		98.8	80	120				
Surr: Dibromofluoromethane	25.870		25.00		103	73	128				
Surr: Toluene-d8	24.830		25.00		99.3	80	120				

Sample ID: N010420-013AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599479						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.210	0.50	20.00	0	96.0	67	135	20.06	4.33	20	
1,1,1-Trichloroethane	19.450	0.50	20.00	0	97.3	67	131	19.38	0.361	20	
1,1,2,2-Tetrachloroethane	22.350	0.50	20.00	0	112	67	131	20.23	9.96	20	
1,1,2-Trichloroethane	21.260	0.50	20.00	0	106	73	120	20.90	1.71	20	
1,1-Dichloroethane	20.870	0.50	20.00	0	104	69	124	20.87	0	20	
1,1-Dichloroethene	17.250	0.50	20.00	0	86.2	65	128	17.60	2.01	20	
1,1-Dichloropropene	18.950	0.50	20.00	0	94.8	79	120	18.57	2.03	20	
1,2,3-Trichlorobenzene	18.580	0.50	20.00	0	92.9	79	124	18.51	0.377	20	
1,2,3-Trichloropropane	20.230	0.50	20.00	0	101	64	123	18.87	6.96	20	
1,2,4-Trichlorobenzene	19.250	0.50	20.00	0	96.2	79	124	20.04	4.02	20	
1,2,4-Trimethylbenzene	15.090	0.50	20.00	0	75.5	61	135	18.77	21.7	20	R
1,2-Dibromo-3-chloropropane	19.440	1.0	20.00	0	97.2	52	140	18.56	4.63	20	
1,2-Dibromoethane	20.240	0.50	20.00	0	101	70	122	20.09	0.744	20	
1,2-Dichlorobenzene	20.210	0.50	20.00	0	101	80	120	19.86	1.75	20	
1,2-Dichloroethane	18.900	0.50	20.00	0	94.5	75	122	18.53	1.98	20	
1,2-Dichloropropane	22.030	0.50	20.00	0	110	73	120	21.84	0.866	20	
1,3,5-Trimethylbenzene	18.490	0.50	20.00	0	92.5	74	124	18.76	1.45	20	
1,3-Dichlorobenzene	19.790	0.50	20.00	0	99.0	80	120	19.13	3.39	20	
1,3-Dichloropropane	20.980	0.50	20.00	0	105	78	120	20.60	1.83	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-013AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599479

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	18.740	0.50	20.00	0	93.7	80	120	18.20	2.92	20	
2,2-Dichloropropane	23.360	0.50	20.00	0	117	51	154	23.98	2.62	20	
2-Chlorotoluene	19.230	0.50	20.00	0	96.2	79	120	18.47	4.03	20	
4-Chlorotoluene	19.400	0.50	20.00	0	97.0	80	120	18.55	4.48	20	
4-Isopropyltoluene	18.560	0.50	20.00	0	92.8	80	120	18.39	0.920	20	
Benzene	20.510	0.50	20.00	0	103	72	122	20.33	0.881	20	
Bromobenzene	20.500	0.50	20.00	0	103	80	120	19.84	3.27	20	
Bromodichloromethane	18.700	0.50	20.00	0	93.5	72	130	19.49	4.14	20	
Bromoform	19.080	0.50	20.00	0	95.4	49	155	18.93	0.789	20	
Bromomethane	16.500	1.0	20.00	0	82.5	11	165	17.29	4.68	20	
Carbon tetrachloride	17.970	0.50	20.00	0	89.8	60	145	18.31	1.87	20	
Chlorobenzene	19.460	0.50	20.00	0	97.3	80	120	19.61	0.768	20	
Chloroethane	17.790	1.0	20.00	0	89.0	53	145	17.10	3.96	20	
Chloroform	20.970	0.50	20.00	1.900	95.4	66	130	21.49	2.45	20	
Chloromethane	20.780	0.50	20.00	0	104	40	137	20.81	0.144	20	
cis-1,2-Dichloroethene	21.510	0.50	20.00	0	108	73	120	20.28	5.89	20	
Dibromochloromethane	18.450	0.50	20.00	0	92.2	60	137	19.21	4.04	20	
Dibromomethane	18.870	0.50	20.00	0	94.4	78	120	18.96	0.476	20	
Dichlorodifluoromethane	18.680	0.50	20.00	0	93.4	57	128	18.44	1.29	20	
Ethylbenzene	18.820	0.50	20.00	0	94.1	80	120	19.15	1.74	20	
Hexachlorobutadiene	17.060	0.50	20.00	0	85.3	74	120	17.23	0.992	20	
Isopropylbenzene	19.900	0.50	20.00	0	99.5	80	120	18.92	5.05	20	
m,p-Xylene	36.740	1.0	40.00	0	91.9	80	120	38.01	3.40	20	
Methylene chloride	21.250	2.0	20.00	0	106	59	125	20.98	1.28	20	
MTBE	27.600	0.50	20.00	0	138	62	125	27.69	0.326	20	S
n-Butylbenzene	18.920	0.50	20.00	0	94.6	80	122	18.52	2.14	20	
n-Propylbenzene	19.690	0.50	20.00	0	98.4	79	120	18.73	5.00	20	
Naphthalene	15.300	0.50	20.00	0	76.5	65	130	17.95	15.9	20	
o-Xylene	18.770	0.50	20.00	0	93.8	80	120	19.60	4.33	20	
sec-Butylbenzene	19.400	0.50	20.00	0	97.0	80	120	18.62	4.10	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-013AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599479						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	11.180	0.50	20.00	0	55.9	50	138	18.45	49.1	20	R
tert-Butylbenzene	19.620	0.50	20.00	0	98.1	80	120	18.74	4.59	20	
Toluene	18.890	0.50	20.00	0	94.4	78	120	19.05	0.843	20	
trans-1,2-Dichloroethene	20.890	0.50	20.00	0	104	72	122	21.41	2.46	20	
Trichloroethene	23.650	0.50	20.00	4.160	97.5	76	120	23.65	0	20	
Trichlorofluoromethane	17.430	0.50	20.00	0	87.2	53	148	17.68	1.42	20	
Vinyl chloride	20.240	0.50	20.00	0	101	67	120	19.75	2.45	20	
Surr: 1,2-Dichloroethane-d4	25.030		25.00		100	70	127		0		
Surr: 4-Bromofluorobenzene	23.930		25.00		95.7	80	120		0		
Surr: Dibromofluoromethane	25.530		25.00		102	73	128		0		
Surr: Toluene-d8	24.310		25.00		97.2	80	120		0		

Sample ID: D130624MB6	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: PBW	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599480						
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									

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130624MB6	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: PBW	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
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	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	1.0									
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									

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 | |



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Laboratories, Inc.**

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CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130624MB6	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: PBW	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/24/2013	SeqNo: 1599480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
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	21.200		25.00		84.8	70	127				
Surr: 4-Bromofluorobenzene	22.050		25.00		88.2	80	120				
Surr: Dibromofluoromethane	22.440		25.00		89.8	73	128				
Surr: Toluene-d8	24.410		25.00		97.6	80	120				

Sample ID: N010420-013AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	767.200	5.0	200.0	689.4	38.9	76	120				S
Surr: 1,2-Dichloroethane-d4	226.000		250.0		90.4	70	127				
Surr: 4-Bromofluorobenzene	209.500		250.0		83.8	80	120				
Surr: Dibromofluoromethane	238.300		250.0		95.3	73	128				
Surr: Toluene-d8	235.500		250.0		94.2	80	120				

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-013AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89361						
Client ID: ZZZZZ	Batch ID: D13VW022	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599503						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	854.900	5.0	200.0	689.4	82.8	76	120	767.2	10.8	20	
Surr: 1,2-Dichloroethane-d4	227.100		250.0		90.8	70	127		0		
Surr: 4-Bromofluorobenzene	239.000		250.0		95.6	80	120		0		
Surr: Dibromofluoromethane	234.900		250.0		94.0	73	128		0		
Surr: Toluene-d8	238.400		250.0		95.4	80	120		0		

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130625LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368
Client ID: LCSW	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599958

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.900	0.50	20.00	0	94.5	77	127				
1,1,1-Trichloroethane	19.200	0.50	20.00	0	96.0	74	122				
1,1,2,2-Tetrachloroethane	20.880	0.50	20.00	0	104	70	128				
1,1,2-Trichloroethane	20.770	0.50	20.00	0	104	73	120				
1,1-Dichloroethane	20.110	0.50	20.00	0	101	72	120				
1,1-Dichloroethene	18.320	0.50	20.00	0	91.6	69	125				
1,1-Dichloropropene	19.730	0.50	20.00	0	98.6	80	120				
1,2,3-Trichlorobenzene	18.120	0.50	20.00	0	90.6	80	126				
1,2,3-Trichloropropane	19.860	0.50	20.00	0	99.3	68	126				
1,2,4-Trichlorobenzene	18.750	0.50	20.00	0	93.8	80	125				
1,2,4-Trimethylbenzene	19.350	0.50	20.00	0	96.8	80	124				
1,2-Dibromo-3-chloropropane	19.300	1.0	20.00	0	96.5	66	129				
1,2-Dibromoethane	19.360	0.50	20.00	0	96.8	78	120				
1,2-Dichlorobenzene	19.300	0.50	20.00	0	96.5	80	120				
1,2-Dichloroethane	19.310	0.50	20.00	0	96.6	79	120				
1,2-Dichloropropane	21.350	0.50	20.00	0	107	75	120				
1,3,5-Trimethylbenzene	19.560	0.50	20.00	0	97.8	80	122				
1,3-Dichlorobenzene	18.790	0.50	20.00	0	94.0	80	120				
1,3-Dichloropropane	19.060	0.50	20.00	0	95.3	80	120				
1,4-Dichlorobenzene	18.230	0.50	20.00	0	91.2	80	120				
2,2-Dichloropropane	26.030	0.50	20.00	0	130	61	151				
2-Chlorotoluene	18.860	0.50	20.00	0	94.3	80	120				
4-Chlorotoluene	18.860	0.50	20.00	0	94.3	80	120				
4-Isopropyltoluene	19.120	0.50	20.00	0	95.6	80	122				
Benzene	20.080	0.50	20.00	0	100	80	120				
Bromobenzene	19.960	0.50	20.00	0	99.8	80	120				
Bromodichloromethane	19.810	0.50	20.00	0	99.0	79	123				
Bromoform	19.070	0.50	20.00	0	95.4	65	141				
Bromomethane	16.770	1.0	20.00	0	83.9	13	175				
Carbon tetrachloride	19.870	0.50	20.00	0	99.4	71	136				

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130625LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: LCSW	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	18.830	0.50	20.00	0	94.2	80	120				
Chloroethane	18.460	1.0	20.00	0	92.3	63	137				
Chloroform	18.540	0.50	20.00	0	92.7	71	120				
Chloromethane	20.840	0.50	20.00	0	104	35	145				
cis-1,2-Dichloroethene	18.370	0.50	20.00	0	91.9	74	120				
Dibromochloromethane	17.440	0.50	20.00	0	87.2	74	127				
Dibromomethane	19.600	0.50	20.00	0	98.0	80	120				
Dichlorodifluoromethane	18.440	0.50	20.00	0	92.2	67	123				
Ethylbenzene	19.000	0.50	20.00	0	95.0	80	120				
Hexachlorobutadiene	17.840	0.50	20.00	0	89.2	80	120				
Isopropylbenzene	19.320	0.50	20.00	0	96.6	80	120				
m,p-Xylene	38.360	1.0	40.00	0	95.9	80	120				
Methylene chloride	19.930	2.0	20.00	0	99.7	63	126				
MTBE	25.420	0.50	20.00	0	127	68	119				S
n-Butylbenzene	19.200	0.50	20.00	0	96.0	80	121				
n-Propylbenzene	19.230	0.50	20.00	0	96.2	80	120				
Naphthalene	17.540	0.50	20.00	0	87.7	74	131				
o-Xylene	18.960	0.50	20.00	0	94.8	80	120				
sec-Butylbenzene	19.260	0.50	20.00	0	96.3	80	120				
Styrene	19.090	0.50	20.00	0	95.4	80	120				
tert-Butylbenzene	19.160	0.50	20.00	0	95.8	80	120				
Tetrachloroethene	19.090	0.50	20.00	0	95.4	80	120				
Toluene	19.510	0.50	20.00	0	97.6	80	120				
trans-1,2-Dichloroethene	20.360	0.50	20.00	0	102	74	120				
Trichloroethene	20.060	0.50	20.00	0	100	80	120				
Trichlorofluoromethane	17.940	0.50	20.00	0	89.7	67	135				
Vinyl chloride	19.440	0.50	20.00	0	97.2	72	120				
Surr: 1,2-Dichloroethane-d4	23.680		25.00		94.7	70	127				
Surr: 4-Bromofluorobenzene	23.530		25.00		94.1	80	120				
Surr: Dibromofluoromethane	24.240		25.00		97.0	73	128				

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130625LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: LCSW	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	24.360	25.00	97.4	80	120
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Sample ID: N010420-028AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: ZZZZZ	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	19.070	0.50	20.00	0	95.4	67	135	18.81	1.37	20
1,1,1-Trichloroethane	18.960	0.50	20.00	0	94.8	67	131	18.62	1.81	20
1,1,2,2-Tetrachloroethane	19.720	0.50	20.00	0	98.6	67	131	19.62	0.508	20
1,1,2-Trichloroethane	20.300	0.50	20.00	0	102	73	120	20.12	0.891	20
1,1-Dichloroethane	20.560	0.50	20.00	0	103	69	124	20.42	0.683	20
1,1-Dichloroethene	17.340	0.50	20.00	0	86.7	65	128	17.39	0.288	20
1,1-Dichloropropene	18.900	0.50	20.00	0	94.5	79	120	19.35	2.35	20
1,2,3-Trichlorobenzene	19.140	0.50	20.00	0	95.7	79	124	17.97	6.31	20
1,2,3-Trichloropropane	18.470	0.50	20.00	0	92.4	64	123	18.33	0.761	20
1,2,4-Trichlorobenzene	20.260	0.50	20.00	0	101	79	124	19.53	3.67	20
1,2,4-Trimethylbenzene	16.190	0.50	20.00	0	81.0	61	135	18.05	10.9	20
1,2-Dibromo-3-chloropropane	18.880	1.0	20.00	0	94.4	52	140	18.63	1.33	20
1,2-Dibromoethane	20.320	0.50	20.00	0	102	70	122	19.54	3.91	20
1,2-Dichlorobenzene	18.880	0.50	20.00	0	94.4	80	120	18.86	0.106	20
1,2-Dichloroethane	19.130	0.50	20.00	0	95.7	75	122	18.96	0.893	20
1,2-Dichloropropane	21.160	0.50	20.00	0	106	73	120	21.45	1.36	20
1,3,5-Trimethylbenzene	17.170	0.50	20.00	0	85.9	74	124	18.11	5.33	20
1,3-Dichlorobenzene	18.680	0.50	20.00	0	93.4	80	120	18.45	1.24	20
1,3-Dichloropropane	19.870	0.50	20.00	0	99.4	78	120	19.76	0.555	20
1,4-Dichlorobenzene	18.570	0.50	20.00	0	92.8	80	120	17.93	3.51	20
2,2-Dichloropropane	25.890	0.50	20.00	0	129	51	154	25.95	0.231	20
2-Chlorotoluene	17.730	0.50	20.00	0	88.6	79	120	17.91	1.01	20
4-Chlorotoluene	18.200	0.50	20.00	0	91.0	80	120	18.14	0.330	20
4-Isopropyltoluene	17.640	0.50	20.00	0	88.2	80	120	18.11	2.63	20

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-028AMSD	SampType: MSD	TestCode: 8260WATERP Units: µg/L				Prep Date:			RunNo: 89368		
Client ID: ZZZZZ	Batch ID: D13VW023	TestNo: EPA 8260B				Analysis Date: 6/25/2013			SeqNo: 1599960		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.150	0.50	20.00	0	101	72	122	20.17	0.0992	20	
Bromobenzene	18.960	0.50	20.00	0	94.8	80	120	19.29	1.73	20	
Bromodichloromethane	19.260	0.50	20.00	0	96.3	72	130	19.15	0.573	20	
Bromoform	19.560	0.50	20.00	0	97.8	49	155	18.80	3.96	20	
Bromomethane	16.960	1.0	20.00	0	84.8	11	165	17.14	1.06	20	
Carbon tetrachloride	18.860	0.50	20.00	0	94.3	60	145	18.48	2.04	20	
Chlorobenzene	19.370	0.50	20.00	0	96.9	80	120	19.48	0.566	20	
Chloroethane	17.850	1.0	20.00	0	89.2	53	145	17.48	2.09	20	
Chloroform	18.760	0.50	20.00	0.7300	90.2	66	130	18.56	1.07	20	
Chloromethane	20.890	0.50	20.00	0	104	40	137	21.11	1.05	20	
cis-1,2-Dichloroethene	19.430	0.50	20.00	0	97.2	73	120	19.49	0.308	20	
Dibromochloromethane	18.570	0.50	20.00	0	92.8	60	137	17.35	6.79	20	
Dibromomethane	19.300	0.50	20.00	0	96.5	78	120	19.52	1.13	20	
Dichlorodifluoromethane	18.030	0.50	20.00	0	90.2	57	128	17.37	3.73	20	
Ethylbenzene	18.610	0.50	20.00	0	93.0	80	120	18.36	1.35	20	
Hexachlorobutadiene	17.350	0.50	20.00	0	86.8	74	120	16.81	3.16	20	
Isopropylbenzene	17.780	0.50	20.00	0	88.9	80	120	18.03	1.40	20	
m,p-Xylene	37.060	1.0	40.00	0	92.6	80	120	37.02	0.108	20	
Methylene chloride	21.070	2.0	20.00	0	105	59	125	20.10	4.71	20	
MTBE	26.140	0.50	20.00	0	131	62	125	25.72	1.62	20	S
n-Butylbenzene	18.270	0.50	20.00	0	91.4	80	122	18.10	0.935	20	
n-Propylbenzene	17.900	0.50	20.00	0	89.5	79	120	18.24	1.88	20	
Naphthalene	18.120	0.50	20.00	0	90.6	65	130	17.12	5.68	20	
o-Xylene	18.660	0.50	20.00	0	93.3	80	120	18.59	0.376	20	
sec-Butylbenzene	17.910	0.50	20.00	0	89.6	80	120	17.74	0.954	20	
Styrene	14.700	0.50	20.00	0	73.5	50	138	18.89	24.9	20	R
tert-Butylbenzene	17.950	0.50	20.00	0	89.8	80	120	17.96	0.0557	20	
Tetrachloroethene	21.900	0.50	20.00	3.620	91.4	76	120	21.87	0.137	20	
Toluene	19.240	0.50	20.00	0	96.2	78	120	19.05	0.992	20	
trans-1,2-Dichloroethene	20.130	0.50	20.00	0	101	72	122	20.21	0.397	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-028AMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: ZZZZZ	Batch ID: D13VW023	TestNo: EPA 8260B	Analysis Date: 6/25/2013	SeqNo: 1599960							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	19.630	0.50	20.00	0	98.2	76	120	19.94	1.57	20	
Trichlorofluoromethane	17.000	0.50	20.00	0	85.0	53	148	16.58	2.50	20	
Vinyl chloride	19.640	0.50	20.00	0	98.2	67	120	19.34	1.54	20	
Surr: 1,2-Dichloroethane-d4	23.080		25.00		92.3	70	127		0		
Surr: 4-Bromofluorobenzene	24.110		25.00		96.4	80	120		0		
Surr: Dibromofluoromethane	24.140		25.00		96.6	73	128		0		
Surr: Toluene-d8	24.030		25.00		96.1	80	120		0		

Sample ID: N010420-028AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: ZZZZZ	Batch ID: D13VW023	TestNo: EPA 8260B	Analysis Date: 6/25/2013	SeqNo: 1599961							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.810	0.50	20.00	0	94.1	67	135				
1,1,1-Trichloroethane	18.620	0.50	20.00	0	93.1	67	131				
1,1,2,2-Tetrachloroethane	19.620	0.50	20.00	0	98.1	67	131				
1,1,2-Trichloroethane	20.120	0.50	20.00	0	101	73	120				
1,1-Dichloroethane	20.420	0.50	20.00	0	102	69	124				
1,1-Dichloroethene	17.390	0.50	20.00	0	87.0	65	128				
1,1-Dichloropropene	19.350	0.50	20.00	0	96.8	79	120				
1,2,3-Trichlorobenzene	17.970	0.50	20.00	0	89.8	79	124				
1,2,3-Trichloropropane	18.330	0.50	20.00	0	91.7	64	123				
1,2,4-Trichlorobenzene	19.530	0.50	20.00	0	97.6	79	124				
1,2,4-Trimethylbenzene	18.050	0.50	20.00	0	90.3	61	135				
1,2-Dibromo-3-chloropropane	18.630	1.0	20.00	0	93.2	52	140				
1,2-Dibromoethane	19.540	0.50	20.00	0	97.7	70	122				
1,2-Dichlorobenzene	18.860	0.50	20.00	0	94.3	80	120				
1,2-Dichloroethane	18.960	0.50	20.00	0	94.8	75	122				
1,2-Dichloropropane	21.450	0.50	20.00	0	107	73	120				
1,3,5-Trimethylbenzene	18.110	0.50	20.00	0	90.6	74	124				
1,3-Dichlorobenzene	18.450	0.50	20.00	0	92.2	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 | |



Advanced Technology
Laboratories, Inc.

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-028AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368
Client ID: ZZZZZZ	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599961

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.760	0.50	20.00	0	98.8	78	120				
1,4-Dichlorobenzene	17.930	0.50	20.00	0	89.7	80	120				
2,2-Dichloropropane	25.950	0.50	20.00	0	130	51	154				
2-Chlorotoluene	17.910	0.50	20.00	0	89.6	79	120				
4-Chlorotoluene	18.140	0.50	20.00	0	90.7	80	120				
4-Isopropyltoluene	18.110	0.50	20.00	0	90.6	80	120				
Benzene	20.170	0.50	20.00	0	101	72	122				
Bromobenzene	19.290	0.50	20.00	0	96.5	80	120				
Bromodichloromethane	19.150	0.50	20.00	0	95.8	72	130				
Bromoform	18.800	0.50	20.00	0	94.0	49	155				
Bromomethane	17.140	1.0	20.00	0	85.7	11	165				
Carbon tetrachloride	18.480	0.50	20.00	0	92.4	60	145				
Chlorobenzene	19.480	0.50	20.00	0	97.4	80	120				
Chloroethane	17.480	1.0	20.00	0	87.4	53	145				
Chloroform	18.560	0.50	20.00	0.7300	89.2	66	130				
Chloromethane	21.110	0.50	20.00	0	106	40	137				
cis-1,2-Dichloroethene	19.490	0.50	20.00	0	97.5	73	120				
Dibromochloromethane	17.350	0.50	20.00	0	86.8	60	137				
Dibromomethane	19.520	0.50	20.00	0	97.6	78	120				
Dichlorodifluoromethane	17.370	0.50	20.00	0	86.9	57	128				
Ethylbenzene	18.360	0.50	20.00	0	91.8	80	120				
Hexachlorobutadiene	16.810	0.50	20.00	0	84.0	74	120				
Isopropylbenzene	18.030	0.50	20.00	0	90.2	80	120				
m,p-Xylene	37.020	1.0	40.00	0	92.6	80	120				
Methylene chloride	20.100	2.0	20.00	0	101	59	125				
MTBE	25.720	0.50	20.00	0	129	62	125				S
n-Butylbenzene	18.100	0.50	20.00	0	90.5	80	122				
n-Propylbenzene	18.240	0.50	20.00	0	91.2	79	120				
Naphthalene	17.120	0.50	20.00	0	85.6	65	130				
o-Xylene	18.590	0.50	20.00	0	93.0	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 | |



Advanced Technology
Laboratories, Inc.

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010420-028AMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: ZZZZZZ	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599961						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	17.740	0.50	20.00	0	88.7	80	120				
Styrene	18.890	0.50	20.00	0	94.4	50	138				
tert-Butylbenzene	17.960	0.50	20.00	0	89.8	80	120				
Tetrachloroethene	21.870	0.50	20.00	3.620	91.2	76	120				
Toluene	19.050	0.50	20.00	0	95.2	78	120				
trans-1,2-Dichloroethene	20.210	0.50	20.00	0	101	72	122				
Trichloroethene	19.940	0.50	20.00	0	99.7	76	120				
Trichlorofluoromethane	16.580	0.50	20.00	0	82.9	53	148				
Vinyl chloride	19.340	0.50	20.00	0	96.7	67	120				
Surr: 1,2-Dichloroethane-d4	23.070		25.00		92.3	70	127				
Surr: 4-Bromofluorobenzene	23.250		25.00		93.0	80	120				
Surr: Dibromofluoromethane	24.710		25.00		98.8	73	128				
Surr: Toluene-d8	24.080		25.00		96.3	80	120				

Sample ID: D130625MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368						
Client ID: PBW	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599962						
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									

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 | |



Advanced Technology
Laboratories, Inc.

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130625MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368
Client ID: PBW	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599962

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	1.0									
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									

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: D130625MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89368
Client ID: PBW	Batch ID: D13VW023	TestNo: EPA 8260B		Analysis Date: 6/25/2013	SeqNo: 1599962

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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	21.370		25.00		85.5	70	127				
Surr: 4-Bromofluorobenzene	22.330		25.00		89.3	80	120				
Surr: Dibromofluoromethane	22.440		25.00		89.8	73	128				
Surr: Toluene-d8	23.740		25.00		95.0	80	120				

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130619LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307
Client ID: LCSW	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596720

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.360	0.50	20.00	0	96.8	77	127				
1,1,1-Trichloroethane	20.490	0.50	20.00	0	102	74	122				
1,1,2,2-Tetrachloroethane	19.730	0.50	20.00	0	98.6	70	128				
1,1,2-Trichloroethane	19.330	0.50	20.00	0	96.7	73	120				
1,1-Dichloroethane	19.940	0.50	20.00	0	99.7	72	120				
1,1-Dichloroethene	20.830	0.50	20.00	0	104	69	125				
1,1-Dichloropropene	19.200	0.50	20.00	0	96.0	80	120				
1,2,3-Trichlorobenzene	19.870	0.50	20.00	0	99.4	80	126				
1,2,3-Trichloropropane	18.960	0.50	20.00	0	94.8	68	126				
1,2,4-Trichlorobenzene	19.860	0.50	20.00	0	99.3	80	125				
1,2,4-Trimethylbenzene	19.250	0.50	20.00	0	96.2	80	124				
1,2-Dibromo-3-chloropropane	19.210	1.0	20.00	0	96.0	66	129				
1,2-Dibromoethane	19.220	0.50	20.00	0	96.1	78	120				
1,2-Dichlorobenzene	19.540	0.50	20.00	0	97.7	80	120				
1,2-Dichloroethane	20.690	0.50	20.00	0	103	79	120				
1,2-Dichloropropane	19.390	0.50	20.00	0	97.0	75	120				
1,3,5-Trimethylbenzene	19.360	0.50	20.00	0	96.8	80	122				
1,3-Dichlorobenzene	19.130	0.50	20.00	0	95.7	80	120				
1,3-Dichloropropane	19.350	0.50	20.00	0	96.8	80	120				
1,4-Dichlorobenzene	19.350	0.50	20.00	0	96.8	80	120				
2,2-Dichloropropane	25.170	0.50	20.00	0	126	61	151				
2-Chlorotoluene	19.510	0.50	20.00	0	97.6	80	120				
4-Chlorotoluene	19.190	0.50	20.00	0	96.0	80	120				
4-Isopropyltoluene	19.960	0.50	20.00	0	99.8	80	122				
Benzene	18.980	0.50	20.00	0	94.9	80	120				
Bromobenzene	19.400	0.50	20.00	0	97.0	80	120				
Bromodichloromethane	19.980	0.50	20.00	0	99.9	79	123				
Bromoform	20.810	0.50	20.00	0	104	65	141				
Bromomethane	22.000	1.0	20.00	0	110	13	175				
Carbon tetrachloride	19.280	0.50	20.00	0	96.4	71	136				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130619LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307
Client ID: LCSW	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596720

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	19.680	0.50	20.00	0	98.4	80	120				
Chloroethane	21.140	1.0	20.00	0	106	63	137				
Chloroform	19.940	0.50	20.00	0	99.7	71	120				
Chloromethane	20.840	0.50	20.00	0	104	35	145				
cis-1,2-Dichloroethene	19.940	0.50	20.00	0	99.7	74	120				
Dibromochloromethane	20.310	0.50	20.00	0	102	74	127				
Dibromomethane	19.600	0.50	20.00	0	98.0	80	120				
Dichlorodifluoromethane	21.660	0.50	20.00	0	108	67	123				
Ethylbenzene	19.660	0.50	20.00	0	98.3	80	120				
Hexachlorobutadiene	19.370	0.50	20.00	0	96.9	80	120				
Isopropylbenzene	19.350	0.50	20.00	0	96.8	80	120				
m,p-Xylene	38.290	1.0	40.00	0	95.7	80	120				
Methylene chloride	18.420	2.0	20.00	0	92.1	63	126				
MTBE	18.880	0.50	20.00	0	94.4	68	119				
n-Butylbenzene	19.820	0.50	20.00	0	99.1	80	121				
n-Propylbenzene	19.680	0.50	20.00	0	98.4	80	120				
Naphthalene	19.500	0.50	20.00	0	97.5	74	131				
o-Xylene	19.730	0.50	20.00	0	98.6	80	120				
sec-Butylbenzene	19.690	0.50	20.00	0	98.4	80	120				
Styrene	19.720	0.50	20.00	0	98.6	80	120				
tert-Butylbenzene	19.370	0.50	20.00	0	96.9	80	120				
Tetrachloroethene	18.400	0.50	20.00	0	92.0	80	120				
Toluene	19.300	0.50	20.00	0	96.5	80	120				
trans-1,2-Dichloroethene	19.310	0.50	20.00	0	96.6	74	120				
Trichloroethene	19.040	0.50	20.00	0	95.2	80	120				
Trichlorofluoromethane	21.320	0.50	20.00	0	107	67	135				
Vinyl chloride	20.160	0.50	20.00	0	101	72	120				
Surr: 1,2-Dichloroethane-d4	27.340		25.00		109	70	127				
Surr: 4-Bromofluorobenzene	25.820		25.00		103	80	120				
Surr: Dibromofluoromethane	26.360		25.00		105	73	128				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130619LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: LCSW	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596720						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	26.160		25.00		105	80	120				

Sample ID: P130619MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: PBW	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596721						
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									
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									

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130619MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307
Client ID: PBW	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596721

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	1.0									
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									
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									

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130619MB3	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: PBW	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	28.570		25.00		114	70	127				
Surr: 4-Bromofluorobenzene	25.290		25.00		101	80	120				
Surr: Dibromofluoromethane	27.310		25.00		109	73	128				
Surr: Toluene-d8	25.830		25.00		103	80	120				

Sample ID: N010409-001FMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: ZZZZZ	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596731						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	20.340	0.50	20.00	0	102	67	135				
1,1,1-Trichloroethane	20.910	0.50	20.00	0	105	67	131				
1,1,2,2-Tetrachloroethane	21.470	0.50	20.00	0	107	67	131				
1,1,2-Trichloroethane	19.690	0.50	20.00	0	98.4	73	120				
1,1-Dichloroethane	21.390	0.50	20.00	0	107	69	124				
1,1-Dichloroethene	22.270	0.50	20.00	0	111	65	128				
1,1-Dichloropropene	20.040	0.50	20.00	0	100	79	120				
1,2,3-Trichlorobenzene	19.760	0.50	20.00	0	98.8	79	124				
1,2,3-Trichloropropane	21.270	0.50	20.00	0	106	64	123				
1,2,4-Trichlorobenzene	19.500	0.50	20.00	0	97.5	79	124				
1,2,4-Trimethylbenzene	19.150	0.50	20.00	0	95.8	61	135				
1,2-Dibromo-3-chloropropane	20.330	1.0	20.00	0	102	52	140				
1,2-Dibromoethane	20.330	0.50	20.00	0	102	70	122				
1,2-Dichlorobenzene	19.790	0.50	20.00	0	99.0	80	120				
1,2-Dichloroethane	21.630	0.50	20.00	0	108	75	122				
1,2-Dichloropropane	20.380	0.50	20.00	0	102	73	120				
1,3,5-Trimethylbenzene	19.290	0.50	20.00	0	96.5	74	124				
1,3-Dichlorobenzene	19.170	0.50	20.00	0	95.9	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010409-001FMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307
Client ID: ZZZZZZ	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596731

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	20.110	0.50	20.00	0	101	78	120				
1,4-Dichlorobenzene	19.390	0.50	20.00	0	97.0	80	120				
2,2-Dichloropropane	23.970	0.50	20.00	0	120	51	154				
2-Chlorotoluene	19.620	0.50	20.00	0	98.1	79	120				
4-Chlorotoluene	19.600	0.50	20.00	0	98.0	80	120				
4-Isopropyltoluene	19.680	0.50	20.00	0	98.4	80	120				
Benzene	19.310	0.50	20.00	0	96.6	72	122				
Bromobenzene	19.350	0.50	20.00	0	96.8	80	120				
Bromodichloromethane	21.490	0.50	20.00	0.3300	106	72	130				
Bromoform	21.420	0.50	20.00	0	107	49	155				
Bromomethane	20.370	1.0	20.00	0	102	11	165				
Carbon tetrachloride	19.340	0.50	20.00	0	96.7	60	145				
Chlorobenzene	20.120	0.50	20.00	0	101	80	120				
Chloroethane	22.640	1.0	20.00	0	113	53	145				
Chloroform	21.230	0.50	20.00	0.3100	105	66	130				
Chloromethane	23.580	0.50	20.00	0	118	40	137				
cis-1,2-Dichloroethene	21.060	0.50	20.00	0	105	73	120				
Dibromochloromethane	20.900	0.50	20.00	0	104	60	137				
Dibromomethane	20.780	0.50	20.00	0	104	78	120				
Dichlorodifluoromethane	22.220	0.50	20.00	0	111	57	128				
Ethylbenzene	19.490	0.50	20.00	0	97.5	80	120				
Hexachlorobutadiene	19.460	0.50	20.00	0	97.3	74	120				
Isopropylbenzene	19.650	0.50	20.00	0	98.2	80	120				
m,p-Xylene	38.910	1.0	40.00	0	97.3	80	120				
Methylene chloride	19.130	2.0	20.00	0	95.7	59	125				
MTBE	20.240	0.50	20.00	0	101	62	125				
n-Butylbenzene	19.980	0.50	20.00	0	99.9	80	122				
n-Propylbenzene	19.760	0.50	20.00	0	98.8	79	120				
Naphthalene	20.430	0.50	20.00	0	102	65	130				
o-Xylene	19.640	0.50	20.00	0	98.2	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010409-001FMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: ZZZZZ	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596731						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	19.600	0.50	20.00	0	98.0	80	120				
Styrene	19.090	0.50	20.00	0	95.4	50	138				
tert-Butylbenzene	19.290	0.50	20.00	0	96.5	80	120				
Tetrachloroethene	18.760	0.50	20.00	0	93.8	76	120				
Toluene	19.720	0.50	20.00	0	98.6	78	120				
trans-1,2-Dichloroethene	19.830	0.50	20.00	0	99.2	72	122				
Trichloroethene	18.870	0.50	20.00	0	94.4	76	120				
Trichlorofluoromethane	22.520	0.50	20.00	0	113	53	148				
Vinyl chloride	20.900	0.50	20.00	0	104	67	120				
Surr: 1,2-Dichloroethane-d4	30.300		25.00		121	70	127				
Surr: 4-Bromofluorobenzene	26.550		25.00		106	80	120				
Surr: Dibromofluoromethane	27.410		25.00		110	73	128				
Surr: Toluene-d8	26.340		25.00		105	80	120				

Sample ID: N010409-001FMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: ZZZZZ	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596732						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.400	0.50	20.00	0	102	67	135	20.34	0.295	20	
1,1,1-Trichloroethane	21.220	0.50	20.00	0	106	67	131	20.91	1.47	20	
1,1,2,2-Tetrachloroethane	21.900	0.50	20.00	0	110	67	131	21.47	1.98	20	
1,1,2-Trichloroethane	20.150	0.50	20.00	0	101	73	120	19.69	2.31	20	
1,1-Dichloroethane	21.440	0.50	20.00	0	107	69	124	21.39	0.233	20	
1,1-Dichloroethene	21.400	0.50	20.00	0	107	65	128	22.27	3.98	20	
1,1-Dichloropropene	20.480	0.50	20.00	0	102	79	120	20.04	2.17	20	
1,2,3-Trichlorobenzene	19.980	0.50	20.00	0	99.9	79	124	19.76	1.11	20	
1,2,3-Trichloropropane	21.500	0.50	20.00	0	108	64	123	21.27	1.08	20	
1,2,4-Trichlorobenzene	19.800	0.50	20.00	0	99.0	79	124	19.50	1.53	20	
1,2,4-Trimethylbenzene	19.510	0.50	20.00	0	97.6	61	135	19.15	1.86	20	
1,2-Dibromo-3-chloropropane	21.350	1.0	20.00	0	107	52	140	20.33	4.89	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010409-001FMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307
Client ID: ZZZZZ	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596732

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	20.440	0.50	20.00	0	102	70	122	20.33	0.540	20	
1,2-Dichlorobenzene	20.080	0.50	20.00	0	100	80	120	19.79	1.45	20	
1,2-Dichloroethane	22.040	0.50	20.00	0	110	75	122	21.63	1.88	20	
1,2-Dichloropropane	21.060	0.50	20.00	0	105	73	120	20.38	3.28	20	
1,3,5-Trimethylbenzene	20.110	0.50	20.00	0	101	74	124	19.29	4.16	20	
1,3-Dichlorobenzene	19.630	0.50	20.00	0	98.2	80	120	19.17	2.37	20	
1,3-Dichloropropane	20.600	0.50	20.00	0	103	78	120	20.11	2.41	20	
1,4-Dichlorobenzene	19.730	0.50	20.00	0	98.6	80	120	19.39	1.74	20	
2,2-Dichloropropane	22.540	0.50	20.00	0	113	51	154	23.97	6.15	20	
2-Chlorotoluene	20.090	0.50	20.00	0	100	79	120	19.62	2.37	20	
4-Chlorotoluene	19.890	0.50	20.00	0	99.4	80	120	19.60	1.47	20	
4-Isopropyltoluene	20.060	0.50	20.00	0	100	80	120	19.68	1.91	20	
Benzene	19.710	0.50	20.00	0	98.6	72	122	19.31	2.05	20	
Bromobenzene	19.590	0.50	20.00	0	98.0	80	120	19.35	1.23	20	
Bromodichloromethane	21.440	0.50	20.00	0.3300	106	72	130	21.49	0.233	20	
Bromoform	21.470	0.50	20.00	0	107	49	155	21.42	0.233	20	
Bromomethane	21.590	1.0	20.00	0	108	11	165	20.37	5.82	20	
Carbon tetrachloride	19.920	0.50	20.00	0	99.6	60	145	19.34	2.95	20	
Chlorobenzene	20.130	0.50	20.00	0	101	80	120	20.12	0.0497	20	
Chloroethane	23.350	1.0	20.00	0	117	53	145	22.64	3.09	20	
Chloroform	20.570	0.50	20.00	0.3100	101	66	130	21.23	3.16	20	
Chloromethane	24.350	0.50	20.00	0	122	40	137	23.58	3.21	20	
cis-1,2-Dichloroethene	20.850	0.50	20.00	0	104	73	120	21.06	1.00	20	
Dibromochloromethane	21.210	0.50	20.00	0	106	60	137	20.90	1.47	20	
Dibromomethane	21.210	0.50	20.00	0	106	78	120	20.78	2.05	20	
Dichlorodifluoromethane	22.870	0.50	20.00	0	114	57	128	22.22	2.88	20	
Ethylbenzene	20.050	0.50	20.00	0	100	80	120	19.49	2.83	20	
Hexachlorobutadiene	19.650	0.50	20.00	0	98.2	74	120	19.46	0.972	20	
Isopropylbenzene	20.170	0.50	20.00	0	101	80	120	19.65	2.61	20	
m,p-Xylene	39.620	1.0	40.00	0	99.0	80	120	38.91	1.81	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010409-001FMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89307						
Client ID: ZZZZZZ	Batch ID: P13VW094	TestNo: EPA 8260B		Analysis Date: 6/19/2013	SeqNo: 1596732						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	19.070	2.0	20.00	0	95.4	59	125	19.13	0.314	20	
MTBE	19.940	0.50	20.00	0	99.7	62	125	20.24	1.49	20	
n-Butylbenzene	20.480	0.50	20.00	0	102	80	122	19.98	2.47	20	
n-Propylbenzene	20.280	0.50	20.00	0	101	79	120	19.76	2.60	20	
Naphthalene	20.790	0.50	20.00	0	104	65	130	20.43	1.75	20	
o-Xylene	19.960	0.50	20.00	0	99.8	80	120	19.64	1.62	20	
sec-Butylbenzene	19.940	0.50	20.00	0	99.7	80	120	19.60	1.72	20	
Styrene	19.570	0.50	20.00	0	97.9	50	138	19.09	2.48	20	
tert-Butylbenzene	19.580	0.50	20.00	0	97.9	80	120	19.29	1.49	20	
Tetrachloroethene	18.950	0.50	20.00	0	94.8	76	120	18.76	1.01	20	
Toluene	19.870	0.50	20.00	0	99.4	78	120	19.72	0.758	20	
trans-1,2-Dichloroethene	19.690	0.50	20.00	0	98.4	72	122	19.83	0.709	20	
Trichloroethene	19.190	0.50	20.00	0	96.0	76	120	18.87	1.68	20	
Trichlorofluoromethane	22.640	0.50	20.00	0	113	53	148	22.52	0.531	20	
Vinyl chloride	20.880	0.50	20.00	0	104	67	120	20.90	0.0957	20	
Surr: 1,2-Dichloroethane-d4	28.940		25.00		116	70	127		0		
Surr: 4-Bromofluorobenzene	26.330		25.00		105	80	120		0		
Surr: Dibromofluoromethane	26.090		25.00		104	73	128		0		
Surr: Toluene-d8	25.700		25.00		103	80	120		0		

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322
Client ID: LCSW	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597533

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.990	0.50	20.00	0	100	77	127				
1,1,1-Trichloroethane	19.300	0.50	20.00	0	96.5	74	122				
1,1,2,2-Tetrachloroethane	17.730	0.50	20.00	0	88.6	70	128				
1,1,2-Trichloroethane	19.380	0.50	20.00	0	96.9	73	120				
1,1-Dichloroethane	19.210	0.50	20.00	0	96.0	72	120				
1,1-Dichloroethene	18.580	0.50	20.00	0	92.9	69	125				
1,1-Dichloropropene	18.710	0.50	20.00	0	93.6	80	120				
1,2,3-Trichlorobenzene	20.160	0.50	20.00	0	101	80	126				
1,2,3-Trichloropropane	19.110	0.50	20.00	0	95.6	68	126				
1,2,4-Trichlorobenzene	19.680	0.50	20.00	0	98.4	80	125				
1,2,4-Trimethylbenzene	19.540	0.50	20.00	0	97.7	80	124				
1,2-Dibromo-3-chloropropane	20.170	1.0	20.00	0	101	66	129				
1,2-Dibromoethane	20.060	0.50	20.00	0	100	78	120				
1,2-Dichlorobenzene	19.890	0.50	20.00	0	99.4	80	120				
1,2-Dichloroethane	18.970	0.50	20.00	0	94.8	79	120				
1,2-Dichloropropane	19.180	0.50	20.00	0	95.9	75	120				
1,3,5-Trimethylbenzene	19.740	0.50	20.00	0	98.7	80	122				
1,3-Dichlorobenzene	18.920	0.50	20.00	0	94.6	80	120				
1,3-Dichloropropane	19.410	0.50	20.00	0	97.0	80	120				
1,4-Dichlorobenzene	19.330	0.50	20.00	0	96.7	80	120				
2,2-Dichloropropane	17.520	0.50	20.00	0	87.6	61	151				
2-Chlorotoluene	19.290	0.50	20.00	0	96.5	80	120				
4-Chlorotoluene	18.960	0.50	20.00	0	94.8	80	120				
4-Isopropyltoluene	19.690	0.50	20.00	0	98.4	80	122				
Benzene	19.060	0.50	20.00	0	95.3	80	120				
Bromobenzene	19.660	0.50	20.00	0	98.3	80	120				
Bromodichloromethane	19.160	0.50	20.00	0	95.8	79	123				
Bromoform	20.710	0.50	20.00	0	104	65	141				
Bromomethane	19.740	1.0	20.00	0	98.7	13	175				
Carbon tetrachloride	20.370	0.50	20.00	0	102	71	136				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322						
Client ID: LCSW	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	19.420	0.50	20.00	0	97.1	80	120				
Chloroethane	17.470	1.0	20.00	0	87.4	63	137				
Chloroform	18.700	0.50	20.00	0	93.5	71	120				
Chloromethane	18.730	0.50	20.00	0	93.6	35	145				
cis-1,2-Dichloroethene	19.440	0.50	20.00	0	97.2	74	120				
Dibromochloromethane	20.090	0.50	20.00	0	100	74	127				
Dibromomethane	20.370	0.50	20.00	0	102	80	120				
Dichlorodifluoromethane	19.330	0.50	20.00	0	96.7	67	123				
Ethylbenzene	19.700	0.50	20.00	0	98.5	80	120				
Hexachlorobutadiene	19.080	0.50	20.00	0	95.4	80	120				
Isopropylbenzene	19.400	0.50	20.00	0	97.0	80	120				
m,p-Xylene	39.490	1.0	40.00	0	98.7	80	120				
Methylene chloride	20.740	2.0	20.00	0	104	63	126				
MTBE	18.860	0.50	20.00	0	94.3	68	119				
n-Butylbenzene	19.020	0.50	20.00	0	95.1	80	121				
n-Propylbenzene	19.120	0.50	20.00	0	95.6	80	120				
Naphthalene	20.510	0.50	20.00	0	103	74	131				
o-Xylene	19.840	0.50	20.00	0	99.2	80	120				
sec-Butylbenzene	19.140	0.50	20.00	0	95.7	80	120				
Styrene	20.030	0.50	20.00	0	100	80	120				
tert-Butylbenzene	19.450	0.50	20.00	0	97.3	80	120				
Tetrachloroethene	19.660	0.50	20.00	0	98.3	80	120				
Toluene	19.550	0.50	20.00	0	97.8	80	120				
trans-1,2-Dichloroethene	19.790	0.50	20.00	0	99.0	74	120				
Trichloroethene	20.830	0.50	20.00	0	104	80	120				
Trichlorofluoromethane	19.280	0.50	20.00	0	96.4	67	135				
Vinyl chloride	19.470	0.50	20.00	0	97.4	72	120				
Surr: 1,2-Dichloroethane-d4	24.450		25.00		97.8	70	127				
Surr: 4-Bromofluorobenzene	25.810		25.00		103	80	120				
Surr: Dibromofluoromethane	25.290		25.00		101	73	128				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322						
Client ID: LCSW	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	25.360	25.00	101	80	120
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Sample ID: P130620LCS D	SampType: LCS D	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322						
Client ID: LCS S02	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597534						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	20.380	0.50	20.00	0	102	77	127	19.99	1.93	20
1,1,1-Trichloroethane	19.560	0.50	20.00	0	97.8	74	122	19.30	1.34	20
1,1,2,2-Tetrachloroethane	18.860	0.50	20.00	0	94.3	70	128	17.73	6.18	20
1,1,2-Trichloroethane	19.660	0.50	20.00	0	98.3	73	120	19.38	1.43	20
1,1-Dichloroethane	19.340	0.50	20.00	0	96.7	72	120	19.21	0.674	20
1,1-Dichloroethene	18.680	0.50	20.00	0	93.4	69	125	18.58	0.537	20
1,1-Dichloropropene	18.960	0.50	20.00	0	94.8	80	120	18.71	1.33	20
1,2,3-Trichlorobenzene	20.860	0.50	20.00	0	104	80	126	20.16	3.41	20
1,2,3-Trichloropropane	19.650	0.50	20.00	0	98.2	68	126	19.11	2.79	20
1,2,4-Trichlorobenzene	20.780	0.50	20.00	0	104	80	125	19.68	5.44	20
1,2,4-Trimethylbenzene	20.200	0.50	20.00	0	101	80	124	19.54	3.32	20
1,2-Dibromo-3-chloropropane	20.940	1.0	20.00	0	105	66	129	20.17	3.75	20
1,2-Dibromoethane	20.720	0.50	20.00	0	104	78	120	20.06	3.24	20
1,2-Dichlorobenzene	20.260	0.50	20.00	0	101	80	120	19.89	1.84	20
1,2-Dichloroethane	19.930	0.50	20.00	0	99.7	79	120	18.97	4.94	20
1,2-Dichloropropane	19.740	0.50	20.00	0	98.7	75	120	19.18	2.88	20
1,3,5-Trimethylbenzene	20.360	0.50	20.00	0	102	80	122	19.74	3.09	20
1,3-Dichlorobenzene	20.020	0.50	20.00	0	100	80	120	18.92	5.65	20
1,3-Dichloropropane	19.900	0.50	20.00	0	99.5	80	120	19.41	2.49	20
1,4-Dichlorobenzene	20.210	0.50	20.00	0	101	80	120	19.33	4.45	20
2,2-Dichloropropane	16.500	0.50	20.00	0	82.5	61	151	17.52	6.00	20
2-Chlorotoluene	20.060	0.50	20.00	0	100	80	120	19.29	3.91	20
4-Chlorotoluene	19.840	0.50	20.00	0	99.2	80	120	18.96	4.54	20
4-Isopropyltoluene	20.480	0.50	20.00	0	102	80	122	19.69	3.93	20

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620LCSD	SampType: LCSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322
Client ID: LCSS02	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597534

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.660	0.50	20.00	0	98.3	80	120	19.06	3.10	20	
Bromobenzene	20.420	0.50	20.00	0	102	80	120	19.66	3.79	20	
Bromodichloromethane	19.380	0.50	20.00	0	96.9	79	123	19.16	1.14	20	
Bromoform	21.370	0.50	20.00	0	107	65	141	20.71	3.14	20	
Bromomethane	19.100	1.0	20.00	0	95.5	13	175	19.74	3.30	20	
Carbon tetrachloride	20.380	0.50	20.00	0	102	71	136	20.37	0.0491	20	
Chlorobenzene	20.310	0.50	20.00	0	102	80	120	19.42	4.48	20	
Chloroethane	18.250	1.0	20.00	0	91.2	63	137	17.47	4.37	20	
Chloroform	19.430	0.50	20.00	0	97.2	71	120	18.70	3.83	20	
Chloromethane	19.350	0.50	20.00	0	96.8	35	145	18.73	3.26	20	
cis-1,2-Dichloroethene	19.920	0.50	20.00	0	99.6	74	120	19.44	2.44	20	
Dibromochloromethane	20.660	0.50	20.00	0	103	74	127	20.09	2.80	20	
Dibromomethane	20.500	0.50	20.00	0	103	80	120	20.37	0.636	20	
Dichlorodifluoromethane	19.630	0.50	20.00	0	98.2	67	123	19.33	1.54	20	
Ethylbenzene	20.210	0.50	20.00	0	101	80	120	19.70	2.56	20	
Hexachlorobutadiene	19.560	0.50	20.00	0	97.8	80	120	19.08	2.48	20	
Isopropylbenzene	20.280	0.50	20.00	0	101	80	120	19.40	4.44	20	
m,p-Xylene	40.760	1.0	40.00	0	102	80	120	39.49	3.17	20	
Methylene chloride	20.930	2.0	20.00	0	105	63	126	20.74	0.912	20	
MTBE	18.870	0.50	20.00	0	94.4	68	119	18.86	0.0530	20	
n-Butylbenzene	19.840	0.50	20.00	0	99.2	80	121	19.02	4.22	20	
n-Propylbenzene	19.960	0.50	20.00	0	99.8	80	120	19.12	4.30	20	
Naphthalene	21.280	0.50	20.00	0	106	74	131	20.51	3.69	20	
o-Xylene	20.690	0.50	20.00	0	103	80	120	19.84	4.19	20	
sec-Butylbenzene	19.930	0.50	20.00	0	99.7	80	120	19.14	4.04	20	
Styrene	20.810	0.50	20.00	0	104	80	120	20.03	3.82	20	
tert-Butylbenzene	20.400	0.50	20.00	0	102	80	120	19.45	4.77	20	
Tetrachloroethene	20.260	0.50	20.00	0	101	80	120	19.66	3.01	20	
Toluene	20.340	0.50	20.00	0	102	80	120	19.55	3.96	20	
trans-1,2-Dichloroethene	20.240	0.50	20.00	0	101	74	120	19.79	2.25	20	

Qualifiers:

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|---|--|--|
| 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620LCSD	SampType: LCSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322						
Client ID: LCSS02	Batch ID: P13VW095	TestNo: EPA 8260B	Analysis Date: 6/21/2013	SeqNo: 1597534							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	21.010	0.50	20.00	0	105	80	120	20.83	0.860	20	
Trichlorofluoromethane	19.630	0.50	20.00	0	98.2	67	135	19.28	1.80	20	
Vinyl chloride	19.620	0.50	20.00	0	98.1	72	120	19.47	0.767	20	
Surr: 1,2-Dichloroethane-d4	24.230		25.00		96.9	70	127		0	20	
Surr: 4-Bromofluorobenzene	26.200		25.00		105	80	120		0	20	
Surr: Dibromofluoromethane	25.050		25.00		100	73	128		0	20	
Surr: Toluene-d8	25.370		25.00		101	80	120		0	20	

Sample ID: P130620MB2	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322						
Client ID: PBW	Batch ID: P13VW095	TestNo: EPA 8260B	Analysis Date: 6/21/2013	SeqNo: 1597535							
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									
1,3-Dichlorobenzene	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 | |



Advanced Technology
Laboratories, Inc.

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620MB2	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322
Client ID: PBW	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597535

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	0.410	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	1.0									
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 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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130620MB2	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89322
Client ID: PBW	Batch ID: P13VW095	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1597535

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	24.670		25.00		98.7	70	127				
Surr: 4-Bromofluorobenzene	25.690		25.00		103	80	120				
Surr: Dibromofluoromethane	25.430		25.00		102	73	128				
Surr: Toluene-d8	24.830		25.00		99.3	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130621LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343
Client ID: LCSW	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598640

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.630	0.50	20.00	0	103	77	127				
1,1,1-Trichloroethane	18.810	0.50	20.00	0	94.1	74	122				
1,1,2,2-Tetrachloroethane	20.840	0.50	20.00	0	104	70	128				
1,1,2-Trichloroethane	18.980	0.50	20.00	0	94.9	73	120				
1,1-Dichloroethane	17.780	0.50	20.00	0	88.9	72	120				
1,1-Dichloroethene	18.340	0.50	20.00	0	91.7	69	125				
1,1-Dichloropropene	18.830	0.50	20.00	0	94.2	80	120				
1,2,3-Trichlorobenzene	20.890	0.50	20.00	0	104	80	126				
1,2,3-Trichloropropane	18.450	0.50	20.00	0	92.2	68	126				
1,2,4-Trichlorobenzene	20.830	0.50	20.00	0	104	80	125				
1,2,4-Trimethylbenzene	19.790	0.50	20.00	0	99.0	80	124				
1,2-Dibromo-3-chloropropane	21.000	1.0	20.00	0	105	66	129				
1,2-Dibromoethane	20.300	0.50	20.00	0	102	78	120				
1,2-Dichlorobenzene	20.430	0.50	20.00	0	102	80	120				
1,2-Dichloroethane	19.170	0.50	20.00	0	95.9	79	120				
1,2-Dichloropropane	17.970	0.50	20.00	0	89.8	75	120				
1,3,5-Trimethylbenzene	19.950	0.50	20.00	0	99.8	80	122				
1,3-Dichlorobenzene	19.980	0.50	20.00	0	99.9	80	120				
1,3-Dichloropropane	19.080	0.50	20.00	0	95.4	80	120				
1,4-Dichlorobenzene	20.090	0.50	20.00	0	100	80	120				
2,2-Dichloropropane	27.530	0.50	20.00	0	138	61	151				
2-Chlorotoluene	19.380	0.50	20.00	0	96.9	80	120				
4-Chlorotoluene	19.000	0.50	20.00	0	95.0	80	120				
4-Isopropyltoluene	20.440	0.50	20.00	0	102	80	122				
Benzene	18.980	0.50	20.00	0	94.9	80	120				
Bromobenzene	20.170	0.50	20.00	0	101	80	120				
Bromodichloromethane	19.010	0.50	20.00	0	95.1	79	123				
Bromoform	21.930	0.50	20.00	0	110	65	141				
Bromomethane	17.320	1.0	20.00	0	86.6	13	175				
Carbon tetrachloride	20.680	0.50	20.00	0	103	71	136				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130621LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: LCSW	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	20.530	0.50	20.00	0	103	80	120				
Chloroethane	17.420	1.0	20.00	0	87.1	63	137				
Chloroform	17.960	0.50	20.00	0	89.8	71	120				
Chloromethane	17.460	0.50	20.00	0	87.3	35	145				
cis-1,2-Dichloroethene	18.580	0.50	20.00	0	92.9	74	120				
Dibromochloromethane	20.670	0.50	20.00	0	103	74	127				
Dibromomethane	20.170	0.50	20.00	0	101	80	120				
Dichlorodifluoromethane	18.970	0.50	20.00	0	94.8	67	123				
Ethylbenzene	19.920	0.50	20.00	0	99.6	80	120				
Hexachlorobutadiene	20.400	0.50	20.00	0	102	80	120				
Isopropylbenzene	19.590	0.50	20.00	0	98.0	80	120				
m,p-Xylene	40.080	1.0	40.00	0	100	80	120				
Methylene chloride	19.660	2.0	20.00	0	98.3	63	126				
MTBE	17.860	0.50	20.00	0	89.3	68	119				
n-Butylbenzene	19.540	0.50	20.00	0	97.7	80	121				
n-Propylbenzene	19.340	0.50	20.00	0	96.7	80	120				
Naphthalene	21.230	0.50	20.00	0	106	74	131				
o-Xylene	20.330	0.50	20.00	0	102	80	120				
sec-Butylbenzene	19.610	0.50	20.00	0	98.0	80	120				
Styrene	20.470	0.50	20.00	0	102	80	120				
tert-Butylbenzene	19.990	0.50	20.00	0	100	80	120				
Tetrachloroethene	20.730	0.50	20.00	0	104	80	120				
Toluene	19.880	0.50	20.00	0	99.4	80	120				
trans-1,2-Dichloroethene	19.010	0.50	20.00	0	95.1	74	120				
Trichloroethene	18.770	0.50	20.00	0	93.8	80	120				
Trichlorofluoromethane	19.630	0.50	20.00	0	98.2	67	135				
Vinyl chloride	17.530	0.50	20.00	0	87.6	72	120				
Surr: 1,2-Dichloroethane-d4	23.280		25.00		93.1	70	127				
Surr: 4-Bromofluorobenzene	25.540		25.00		102	80	120				
Surr: Dibromofluoromethane	23.780		25.00		95.1	73	128				

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130621LCS	SampType: LCS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: LCSW	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	25.140	25.00	101	80	120
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Sample ID: P130621MB2	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: PBW	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598642						
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
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

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130621MB2	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343
Client ID: PBW	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598642

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	1.0									
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									
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									

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 | |



**Advanced Technology
Laboratories, Inc.**

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CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: P130621MB2	SampType: MBLK	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: PBW	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.930		25.00		95.7	70	127				
Surr: 4-Bromofluorobenzene	24.660		25.00		98.6	80	120				
Surr: Dibromofluoromethane	24.670		25.00		98.7	73	128				
Surr: Toluene-d8	24.430		25.00		97.7	80	120				

Sample ID: N010422-001FMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: ZZZZZ	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	20.230	0.50	20.00	0	101	67	135				
1,1,1-Trichloroethane	18.780	0.50	20.00	0	93.9	67	131				
1,1,2,2-Tetrachloroethane	21.040	0.50	20.00	0	105	67	131				
1,1,2-Trichloroethane	18.460	0.50	20.00	0	92.3	73	120				
1,1-Dichloroethane	17.340	0.50	20.00	0	86.7	69	124				
1,1-Dichloroethene	17.950	0.50	20.00	0	89.8	65	128				
1,1-Dichloropropene	18.150	0.50	20.00	0	90.8	79	120				
1,2,3-Trichlorobenzene	20.550	0.50	20.00	0	103	79	124				
1,2,3-Trichloropropane	19.320	0.50	20.00	0	96.6	64	123				
1,2,4-Trichlorobenzene	20.330	0.50	20.00	0	102	79	124				
1,2,4-Trimethylbenzene	19.910	0.50	20.00	0	99.6	61	135				
1,2-Dibromo-3-chloropropane	22.210	1.0	20.00	0	111	52	140				
1,2-Dibromoethane	20.320	0.50	20.00	0	102	70	122				
1,2-Dichlorobenzene	20.160	0.50	20.00	0	101	80	120				
1,2-Dichloroethane	19.390	0.50	20.00	0	97.0	75	122				
1,2-Dichloropropane	ND	0.50	20.00	0	0	73	120				S
1,3,5-Trimethylbenzene	19.690	0.50	20.00	0	98.4	74	124				
1,3-Dichlorobenzene	19.600	0.50	20.00	0	98.0	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010422-001FMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343
Client ID: ZZZZZZ	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598645

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	18.830	0.50	20.00	0	94.2	78	120				
1,4-Dichlorobenzene	19.780	0.50	20.00	0	98.9	80	120				
2,2-Dichloropropane	25.230	0.50	20.00	0	126	51	154				
2-Chlorotoluene	19.140	0.50	20.00	0	95.7	79	120				
4-Chlorotoluene	18.750	0.50	20.00	0	93.8	80	120				
4-Isopropyltoluene	20.110	0.50	20.00	0	101	80	120				
Benzene	18.510	0.50	20.00	0	92.6	72	122				
Bromobenzene	20.140	0.50	20.00	0	101	80	120				
Bromodichloromethane	ND	0.50	20.00	1.710	-8.55	72	130				S
Bromoform	22.340	0.50	20.00	0	112	49	155				
Bromomethane	16.590	1.0	20.00	0.3100	81.4	11	165				
Carbon tetrachloride	20.190	0.50	20.00	0	101	60	145				
Chlorobenzene	19.750	0.50	20.00	0	98.8	80	120				
Chloroethane	17.350	1.0	20.00	0	86.8	53	145				
Chloroform	19.630	0.50	20.00	1.940	88.5	66	130				
Chloromethane	16.700	0.50	20.00	0	83.5	40	137				
cis-1,2-Dichloroethene	18.590	0.50	20.00	0	93.0	73	120				
Dibromochloromethane	21.830	0.50	20.00	1.450	102	60	137				
Dibromomethane	13.480	0.50	20.00	0	67.4	78	120				S
Dichlorodifluoromethane	18.370	0.50	20.00	0	91.9	57	128				
Ethylbenzene	19.280	0.50	20.00	0	96.4	80	120				
Hexachlorobutadiene	19.730	0.50	20.00	0	98.6	74	120				
Isopropylbenzene	19.440	0.50	20.00	0	97.2	80	120				
m,p-Xylene	39.310	1.0	40.00	0	98.3	80	120				
Methylene chloride	18.180	2.0	20.00	0	90.9	59	125				
MTBE	17.470	0.50	20.00	0	87.4	62	125				
n-Butylbenzene	18.940	0.50	20.00	0	94.7	80	122				
n-Propylbenzene	19.080	0.50	20.00	0	95.4	79	120				
Naphthalene	21.870	0.50	20.00	0	109	65	130				
o-Xylene	19.640	0.50	20.00	0	98.2	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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010422-001FMS	SampType: MS	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: ZZZZZ	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	19.150	0.50	20.00	0	95.8	80	120				
Styrene	19.710	0.50	20.00	0	98.6	50	138				
tert-Butylbenzene	19.720	0.50	20.00	0	98.6	80	120				
Tetrachloroethene	19.910	0.50	20.00	0	99.6	76	120				
Toluene	19.750	0.50	20.00	0	98.8	78	120				
trans-1,2-Dichloroethene	18.880	0.50	20.00	0	94.4	72	122				
Trichloroethene	18.050	0.50	20.00	0	90.3	76	120				
Trichlorofluoromethane	19.210	0.50	20.00	0	96.0	53	148				
Vinyl chloride	17.300	0.50	20.00	0	86.5	67	120				
Surr: 1,2-Dichloroethane-d4	23.600		25.00		94.4	70	127				
Surr: 4-Bromofluorobenzene	25.180		25.00		101	80	120				
Surr: Dibromofluoromethane	24.640		25.00		98.6	73	128				
Surr: Toluene-d8	25.480		25.00		102	80	120				

Sample ID: N010422-001FMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: ZZZZZ	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598646						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.990	0.50	20.00	0	100	67	135	20.23	1.19	20	
1,1,1-Trichloroethane	19.140	0.50	20.00	0	95.7	67	131	18.78	1.90	20	
1,1,2,2-Tetrachloroethane	21.360	0.50	20.00	0	107	67	131	21.04	1.51	20	
1,1,2-Trichloroethane	18.600	0.50	20.00	0	93.0	73	120	18.46	0.756	20	
1,1-Dichloroethane	17.870	0.50	20.00	0	89.4	69	124	17.34	3.01	20	
1,1-Dichloroethene	18.710	0.50	20.00	0	93.6	65	128	17.95	4.15	20	
1,1-Dichloropropene	18.370	0.50	20.00	0	91.9	79	120	18.15	1.20	20	
1,2,3-Trichlorobenzene	20.540	0.50	20.00	0	103	79	124	20.55	0.0487	20	
1,2,3-Trichloropropane	19.620	0.50	20.00	0	98.1	64	123	19.32	1.54	20	
1,2,4-Trichlorobenzene	20.180	0.50	20.00	0	101	79	124	20.33	0.741	20	
1,2,4-Trimethylbenzene	19.710	0.50	20.00	0	98.6	61	135	19.91	1.01	20	
1,2-Dibromo-3-chloropropane	22.000	1.0	20.00	0	110	52	140	22.21	0.950	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010422-001FMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343
Client ID: ZZZZZ	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598646

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	19.890	0.50	20.00	0	99.4	70	122	20.32	2.14	20	
1,2-Dichlorobenzene	20.260	0.50	20.00	0	101	80	120	20.16	0.495	20	
1,2-Dichloroethane	18.900	0.50	20.00	0	94.5	75	122	19.39	2.56	20	
1,2-Dichloropropane	17.780	0.50	20.00	0	88.9	73	120	0	200	20	R
1,3,5-Trimethylbenzene	19.610	0.50	20.00	0	98.0	74	124	19.69	0.407	20	
1,3-Dichlorobenzene	19.430	0.50	20.00	0	97.2	80	120	19.60	0.871	20	
1,3-Dichloropropane	19.270	0.50	20.00	0	96.4	78	120	18.83	2.31	20	
1,4-Dichlorobenzene	19.350	0.50	20.00	0	96.8	80	120	19.78	2.20	20	
2,2-Dichloropropane	24.560	0.50	20.00	0	123	51	154	25.23	2.69	20	
2-Chlorotoluene	19.030	0.50	20.00	0	95.2	79	120	19.14	0.576	20	
4-Chlorotoluene	18.900	0.50	20.00	0	94.5	80	120	18.75	0.797	20	
4-Isopropyltoluene	19.570	0.50	20.00	0	97.9	80	120	20.11	2.72	20	
Benzene	18.590	0.50	20.00	0	93.0	72	122	18.51	0.431	20	
Bromobenzene	20.060	0.50	20.00	0	100	80	120	20.14	0.398	20	
Bromodichloromethane	20.710	0.50	20.00	1.710	95.0	72	130	0	200	20	R
Bromoform	22.000	0.50	20.00	0	110	49	155	22.34	1.53	20	
Bromomethane	16.810	1.0	20.00	0.3100	82.5	11	165	16.59	1.32	20	
Carbon tetrachloride	20.090	0.50	20.00	0	100	60	145	20.19	0.497	20	
Chlorobenzene	20.050	0.50	20.00	0	100	80	120	19.75	1.51	20	
Chloroethane	18.150	1.0	20.00	0	90.8	53	145	17.35	4.51	20	
Chloroform	20.300	0.50	20.00	1.940	91.8	66	130	19.63	3.36	20	
Chloromethane	18.070	0.50	20.00	0	90.4	40	137	16.70	7.88	20	
cis-1,2-Dichloroethene	19.200	0.50	20.00	0	96.0	73	120	18.59	3.23	20	
Dibromochloromethane	22.390	0.50	20.00	1.450	105	60	137	21.83	2.53	20	
Dibromomethane	19.460	0.50	20.00	0	97.3	78	120	13.48	36.3	20	R
Dichlorodifluoromethane	18.950	0.50	20.00	0	94.8	57	128	18.37	3.11	20	
Ethylbenzene	19.560	0.50	20.00	0	97.8	80	120	19.28	1.44	20	
Hexachlorobutadiene	19.180	0.50	20.00	0	95.9	74	120	19.73	2.83	20	
Isopropylbenzene	19.450	0.50	20.00	0	97.3	80	120	19.44	0.0514	20	
m,p-Xylene	39.440	1.0	40.00	0	98.6	80	120	39.31	0.330	20	

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CLIENT: Cardno ATC
Work Order: N010420
Project: Maryland Square Shopping Center, 085.42620.0

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: N010422-001FMSD	SampType: MSD	TestCode: 8260WATERP	Units: µg/L	Prep Date:	RunNo: 89343						
Client ID: ZZZZZZ	Batch ID: P13VW096	TestNo: EPA 8260B		Analysis Date: 6/21/2013	SeqNo: 1598646						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	19.530	2.0	20.00	0	97.6	59	125	18.18	7.16	20	
MTBE	18.340	0.50	20.00	0	91.7	62	125	17.47	4.86	20	
n-Butylbenzene	18.940	0.50	20.00	0	94.7	80	122	18.94	0	20	
n-Propylbenzene	18.760	0.50	20.00	0	93.8	79	120	19.08	1.69	20	
Naphthalene	21.930	0.50	20.00	0	110	65	130	21.87	0.274	20	
o-Xylene	19.970	0.50	20.00	0	99.8	80	120	19.64	1.67	20	
sec-Butylbenzene	18.960	0.50	20.00	0	94.8	80	120	19.15	0.997	20	
Styrene	19.410	0.50	20.00	0	97.0	50	138	19.71	1.53	20	
tert-Butylbenzene	19.390	0.50	20.00	0	97.0	80	120	19.72	1.69	20	
Tetrachloroethene	20.040	0.50	20.00	0	100	76	120	19.91	0.651	20	
Toluene	19.450	0.50	20.00	0	97.3	78	120	19.75	1.53	20	
trans-1,2-Dichloroethene	19.190	0.50	20.00	0	96.0	72	122	18.88	1.63	20	
Trichloroethene	17.770	0.50	20.00	0	88.8	76	120	18.05	1.56	20	
Trichlorofluoromethane	19.630	0.50	20.00	0	98.2	53	148	19.21	2.16	20	
Vinyl chloride	18.310	0.50	20.00	0	91.6	67	120	17.30	5.67	20	
Surr: 1,2-Dichloroethane-d4	24.580		25.00		98.3	70	127		0		
Surr: 4-Bromofluorobenzene	25.620		25.00		102	80	120		0		
Surr: Dibromofluoromethane	24.710		25.00		98.8	73	128		0		
Surr: Toluene-d8	25.140		25.00		101	80	120		0		

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 | |



**Advanced Technology
Laboratories, Inc.**

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

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

Advanced Technology Laboratories
 3151-3153 W. Post Rd.
 Las Vegas, NV 89118
 Tel: (702) 307-2659 • Fax: (702) 307-2691

Client: **ATC Associates** *Carlin's ATC*
 Attention: Andrew Stuart
 Project Name: Maryland Square Shopping Center
 Project #: 085.42620.0001

P.O. #: _____ Date: 6/18/13
 Logged By: AMC

Method of Transport: Client ATL CA OverN FedEx Other: _____

Sample Condition Upon Receipt: 1. CHILLED 3. 4°C 4. SEALED N 5. # OF SPLS MATCH COC Y N 6. PRESERVED Y N

Address: 2925 E. Patrick Lane #M
 City: Las Vegas State: NV Zip Code: 89120
 Tel: 702-798-5750 Fax: 702-798-5742

Sampler: _____ (Printed Name)
 Date: _____ Time: _____

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)
 Date: 6/18/13 Time: 9:03

Relinquished by: [Signature] (Signature and Printed Name)
 Date: 6/18/13 Time: 9:32

Relinquished by: _____ (Signature and Printed Name)
 Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr./Submitter: _____ Date: 6/18/13
 Print Name: _____ Signature: _____

Bill To: **Attn: Accounts Payable**
 Co: **ATC**
 Address: **2925 E. Patrick Lane #M**
 City: Las Vegas State: NV Zip: 89120

Special Instructions/Comments:
email results to carlin@atc.com
andrew.stuart@atc.com
please contact Andrew Stuart 702-798-5750

LAB USE ONLY:	Sample ID / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		CONTAINER(S)	TAT	Type	REMARKS
				RTNE	CT				
NOT FOR -1	MW-1	6/11	936			WATER	3	VH	
-2	MW-5	6/13	1249			WASTEWATER	3	VH	
-3	MW-6	6/13	1427			GROUND WATER	3	VH	
-4	MW-6D1	6/13	941			SOIL	3	VH	
-5	MW-6D2	6/13	1027			218.6 (metal)	3	VH	
-6	MW-6D3	6/13	1110			6020 (metal)	3	VH	
-7	MW-9	6/11	880			total organic carbon	3	VH	
-8	MW-14	6/13	1329			geochemical parameters	3	VH	
-9	MW-14I	6/13	1502			CHROMIUM, SELENIUM, ZINC	3	VH	
-10	MW-17	6/11	855			PCE	3	VH	

TAT starts 8AM the following day if samples received after 3 PM

Container Types: T=Tube V=VOA L=Liter P=Pin V=Jar B=Bedlar G=Glass P=Plastic M=Metal

Urgent 3 Workdays E
 Critical 2 Workdays C
 Emergency Next Workday B
 Overnight ≤ 24 hrs A

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

Advanced Technology Laboratories
 3151-3153 W. Post Rd.
 Las Vegas, NV 89118
 Tel: (702) 307-2659 • Fax: (702) 307-2691

Method of Transport
 Client ATL
 CA OverN FedEx Other: _____
 Sample Condition Upon Receipt
 1. CHILLED 2. SEALED 3. N 4. Y 5. # OF SPLS MATCH COC 6. N 7. Y 8. N 9. Y 10. N 11. Y 12. N

Client: **ATC Associates (CANDINO AX)** Address: 2925 E. Patrick Lane #M State: NV Zip Code: 89120 Tel: 702-798-5750
 Attention: Andrew Stuart City: Las Vegas Sampler: _____ Fax: 702-798-5742
 Project Name: _____ Project #: _____

Relinquished by: (Signature and Printed Name) _____ Date: 6/18/13 Time: 9:05
 Received by: (Signature and Printed Name) *Andrew Stuart* Date: 6/18/13 Time: 9:08
 Relinquished by: (Signature and Printed Name) _____ Date: 6/18/13 Time: 9:02
 Received by: (Signature and Printed Name) *Andrew Stuart* Date: 6/18/13 Time: 9:02
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr./Submitter: _____ Date: 6/18/13
 Print Name: _____
 Signature: _____
 City: Las Vegas State: NV Zip: 89120
 Bill To: _____
 Attn: Accounts Payable
 Co: ATC
 Address: 2925 E. Patrick Lane #M
 City: Las Vegas State: NV Zip: 89120

Special Instructions/Comments:
email results to Candino.com andrew.stuart@ateassociates.com questions please contact Andrew Stuart 702-798-5750

LAB USE ONLY:	Sample ID / Location	Date	Time	Sample Description
1	MW-19	6/14	1923	
2	MW-19I	6/14	1515	
3	MW-19D1	6/12	1557	
4	MW-19D2	6/12	1242	
5	MW-19D3	6/12	1201	
6	MW-20	6/12	1435	
7	MW-20D1	6/12	1050	
8	MW-20D2	6/12	1007	
9	MW-20D3	6/12	917	
10	MW-27	6/10	1325	

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)

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Urgent 3 Workdays D = Critical 2 Workdays C = Routine 7 Workdays E

Preservatives: H=HCl N=HNO3 S=H2SO4 C=4°C Z=Zn(Ac)2 O=NaOH T=Na2S2O3

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

Method of Transport: Client, ATL, CA Oven, FedEx, Other: _____

Sample Condition Upon Receipt: 1. CHILLED, 2. SEALED, 3. HEADSPACE (VOA), 4. # OF SPLS MATCH COC, 5. CONTAINER INTACT, 6. PRESERVED

P.O. #: _____ Date: _____

Logged By: _____

Address: 2925 E. Patrick Lane #M
City: Las Vegas State: NV Zip Code: 89120
Tel: 702-798-5750 Fax: 702-798-5742

Project Name: Maryland Square Shopping Center
Project #: 085.42620.0001

Client: ATC Associates **Carvino Ave**

Attention: Andrew Stuart

Relinquished by: (Signature and Printed Name) _____ Date: 6/18/13 Time: 9:00

Relinquished by: (Signature and Printed Name) *N. Pungolany* Date: 6/18/13 Time: 9:32

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: **email results to Carvino Ave andrew.stuart@atcassociates.com questions please contact Andrew Stuart 702-798-5750**

Bill To: Accounts Payable
Attn: Andrew Stuart
Co: ATC
Address: 2925 E. Patrick Lane #M
City: Las Vegas State: NV Zip: 89120

Send Report To: _____
Attn: Andrew Stuart
Co: ATC
Address: 2925 E. Patrick Lane #M
City: Las Vegas State: NV Zip: 89120

I hereby authorize ATL to perform the work indicated below:
Project Mgr./Submitter: _____ Date: 6/18/13
Print Name: _____

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)

LAB USE ONLY: LAB No.	Sample ID / Location	Sample Description	Date		Time	Container(s) TAT # Type	SPECIFY APPROPRIATE MATRIX	PRESERVATION	QA/QC RTNE CT	REMARKS
			6/11	6/11						
N010420-21	MW-34		6/11	1103		3 V H				
- 22	MW-35		6/11	1016		3 V H				
- 23	MW-36		6/10	1145		3 V H				
- 24	MW-37		6/10	1047		3 V H				
- 25	MW-38		6/10	950		3 V H				
- 26	MW-39		6/10	1235		3 V H				
- 27	MW-40-30		6/13	1002		5 P V H/W				
- 28	MW-40-35		6/14	1140		5 P V H/W				
- 29	MW-40-40		6/14	1400		5 P V H/W				
- 30	MW-40-45		6/17	925		5 P V H/W				

Circle or Add Analysis(es) Requested:
 8260B (BTEX)M(TBE)(naphthalene)
 8015M (TPH)
 8015B (DPO), Motor Oil(RO)
 VOCs 8260 B
 TO3, TPH/BTEX/M(TBE)
 PCE
 CHROMIUM, SEMIUM, ZINC
 local organic carbon
 geotechnical parameters
 8020 (M(TBE))
 2,5,6 (M(TBE)) + Chloroform

Preservatives:
H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Plastic M=Metal
Urgent 3 Workdays **Critical 2 Workdays** **Routine 7 Workdays**

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
 3151-3153 W. Post Rd.
 Las Vegas, NV 89118
 Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

Method of Transport
 Client ATL ATL
 CA OverN FedEx Other: _____

Sample Condition Upon Receipt
 1. CHILLED 2. SEALED 3. N 4. SEALED Y N
 5. # OF SPLS MATCH COC Y N
 6. CONTAINER INTACT Y N 6. PRESERVED Y N

P.O. #: _____ Date: _____

Logged By: _____

Address: 2925 E. Patrick Lane #M
 City: Las Vegas State: NV Zip Code: 89120
 Tel: 702-798-5750 Fax: 702-798-5742

Project Name: Maryland Square Shopping Center
 Project #: 085.42620.0001

Relinquished by: (Signature and Printed Name) _____ Date: 6/18/13 Time: 9:05
 Relinquished by: (Signature and Printed Name) _____ Date: 6/18/13 Time: 9:05
 Relinquished by: (Signature and Printed Name) _____ Date: 6/18/13 Time: 9:05

Special Instructions/Comments:
email results to Andrew Stuart
andrew.stuart@atlasassociates.com
please contact Andrew Stuart 702-798-5750

Bill To: Accounts Payable
 Attn: Andrew Stuart
 Co: ATC
 Address: 2925 E. Patrick Lane #M
 City: Las Vegas State: NV Zip: 89120

Send Report To:
 Attn: Andrew Stuart
 Co: ATC
 Address: 2925 E. Patrick Lane #M
 City: Las Vegas State: NV Zip: 89120

I hereby authorize ATL to perform the work indicated below:
 Project Mgr/Submitter: _____ Date: 6/18/13
 Print Name: _____

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)

LAB USE ONLY: LAB No.	Sample ID / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		Container(s) TAT # Type	REMARKS
				WATER	AIR		
MW-40-50	MW-40-50	6/17	1042			3 PU VH	
-32	MW-40-55	6/17	1222			3 PU VH	
-33	MW-40-60	6/17	1342			3 PU VH	
-34	Trip Blank 6/10	6/10	830			3 PU VH	
-35	Equipment Blank 6/10	6/10	1155			3 PU VH	
-36	MW-27 DUP	6/10	1325			3 PU VH	
-37	Trip Blank 6/11	6/11	635			3 PU VH	
-38	Field Blank 6/11	6/11	900			3 PU VH	
-39	Equipment Blank 6/11	6/11	942			3 PU VH	
-40	MW-34 DUP	6/11	1103			3 PU VH	

Circle or Add Analysis(es) Requested:
 8208 (Nitrates)
 8208 (BTEX)(MTHB)(naphthalene)
 8015M (TPH)
 8015B (DFO)(Motor Oil/RO)
 PCRA 7 (610B/700)
 VOC's 8260 B
 TO3: TPH/BTEX/MTHB
 8015 TPH
 PCE
 CHROMIUM, SELENIUM, ZINC
 geochemical parameters
 21.6 (MTHB) (MTHB)
 21.6 (MTHB) (MTHB)
 WATER
 GROUND WATER
 WASTEWATER
 AIR

QA/QC
 RTNE CT
 SWRCB Logcode
 OTHER

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pinnt J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 TAT: A = Overnight 5 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
 3151-3153 W. Post Rd.
 Las Vegas, NV 89118
 Tel: (702) 307-2659 • Fax: (702) 307-2691

Client: **ATC Associates** *Cardino ATC*
 Attention: Andrew Stuart
 Project Name: Maryland Square Shopping Center
 Project #: 085.42620.0001

FOR LABORATORY USE ONLY

Method of Transport
 Client ATL CA OverN FedEx Other:
 Sample Condition Upon Receipt
 1. CHILLED 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: 2925 E. Patrick Lane #M City: Las Vegas State: NV Zip Code: 89120
 Tel: 702-798-5750
 Fax: 702-798-5742
 Sampler: 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.
 Received by: (Signature and Printed Name) *Andrew Stuart* Date: 6/18/13 Time: 9:08
 Received by: (Signature and Printed Name) *MICHAEL MURPHY* Date: 6/18/13 Time: 0932
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments:
email results to *andrew.stuart@atcassociates.com* questions please contact Andrew Stuart 702-798-5750
 Bill To: Accounts Payable Attn: Andrew Stuart
 Co: ATC
 Addr: 2925 E. Patrick Lane #M City: Las Vegas State: NV Zip: 89120

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)

LAB USE ONLY:	Sample ID / Location	Date	Time	Container(s)	TAT #	Type	Q A / Q C
N010420-41	Trip Blank 6/12	6/12	710		3	V	
-42	Field Blank 6/12	6/12	0054		3	V	
-43	Equipment Blank 6/12	6/12	1340		3	V	
-44	MW-20 Dup	6/12	1435		3	V	
-45	Equipment Blank 6/14	6/14	1430		3	V	
-46	MW-19T Dup	6/14	1525		3	V	
-47	Field Blank 6/17	6/17	859		3	V	
-48	Trip Blank 6/17	6/17	740		3	V	
-49	Equipment Blank 6/17	6/17	1230		3	V	
-50	MW40 Cont-60 Dup	6/17	1342		3	V	

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃
 Routine 7 Workdays
 Urgent 3 Workdays
 Critical 2 Workdays
 Emergency Next Workday
 TAT: A = Overnight ≤ 24 hrs B = C = D = E
 Container Types: T=Tube V=VOA L=Liter P=Pin P=Plastic M=Metal G=Glass B=Teclar J=Jar

CHAIN OF CUSTODY RECORD



Advanced Technologies Laboratories

3151-3153 W. Post Rd.
Las Vegas, NV 89118

Tel: (702) 307-2659 • Fax: (702) 307-2691

Client: **ATC-Associates** *Cavelino ATC*

Attention: Andrew Stuart

Project Name: _____

Address: 2925 E. Patrick Lane #M

City: Las Vegas

State: NV

Zip Code: 89120

Tel: 702-798-5750

Fax: 702-798-5742

Sampler: _____
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.

Project #: _____

Address: 085.42620.0001

City: Las Vegas

State: NV

Zip Code: 89120

Time: _____ Date: _____

Time: _____ Date: _____

Time: _____ Date: _____

Time: _____ Date: _____

Time: _____ Date: _____

Time: _____ Date: _____

I hereby authorize ATL to perform the work indicated below:

Project Mgr./Submitter: _____

Print Name: _____

Date: _____

Send Report To:

Attn: Andrew Stuart

Co: ATC

Address: 2925 E. Patrick Lane #M

City: Las Vegas

State: NV

Zip: 89120

Bill To:

Attn: Accounts Payable

Co: ATC

Address: 2925 E. Patrick Lane #M

City: Las Vegas

State: NV

Zip: 89120

Special Instructions/Comments:

email results to *andrew.stuart@atcassociates.com* and *andrew.stuart@atcassociates.com* questions please contact Andrew Stuart 702-798-5750

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)

LAB USE ONLY:	Sample ID / Location	Date	Time	Container(s)	TAT #	Type	RESERVATION	Q A / Q C
NOID 725-51	Field Blank 6/14	6/14	1020		3	VH		RTNE <input type="checkbox"/> CT <input type="checkbox"/>
- 52	Trip Blank 6/13	6/13	757		3	VH		SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/>
- 53	Field Blank 6/13	6/13	959		3	VH		OTHER <input type="checkbox"/>
- 54	Trip Blank 6/14	6/14	759		3	VH		REMARKS
- 55	Equipment Blank 6/13	6/13	1337		3	VH		
- 56	MCW/4E-Drop	6/13	1522		3	VH		

8200B (Voliles)	8015M (TPH)	8015B (DPO) (Motor Oil/RO)	VOC's 8260 B	TO3: TPH/BTEX/MTBE	PCE	CHROMIUM, SELENIUM, ZINC	local organic carbon	geotechnical parameters	SOIL	WATER	GROUND WATER	AIR	SPECIFY APPROPRIATE MATRIX	Container(s)	TAT #	Type	RESERVATION	Q A / Q C

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=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

TAT starts 8AM the following day if samples received after 3 PM

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: 6/18/2013 Workorder: N010420
 Rep sample Temp (Deg C): 3.4 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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments: 2 vials for samples MW-1, MW-14, MW-19D2, MW-27, MW-34, MW-35, MW-29 MW-40-60 has headspace <5mm.

Checklist Completed By MBC *msc 6/19/13*

Reviewed By: *[Signature]*

Glen S. Gesmundo

From: Glen Gesmundo [glen@atl-labs.com]
Sent: Thursday, June 20, 2013 11:23 AM
To: 'Andrew Stuart'
Cc: Marlon Cartin
Subject: Maryland Square Shopping Center, 085.42620.0001

Hi Andrew,

For the above project, we are having difficulty analyzing for Hexavalent Chromium for sample **MW-19I**. The sample is colored purple. The IC analysis for hexavalent Chromium also involves colorimetry and I am afraid that the color on the sample might cause false positive detects. Dissolved Cr was also requested on this sample, you will have an idea on the concentration of Cr based on this result but we cannot determine Cr6+.

Let me know if you have question or clarification.

Thanks,

Glen Gesmundo



3151 W. Post Road Las Vegas, NV 89118
www.atl-labs.com
Tel: (702) 307-2659 Ext. 406
Fax: (702) 307-2691

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Maryland Square PCE Site

APPENDIX C
MANN-KENDALL TEND TEST FOR
PLUME STABILITY

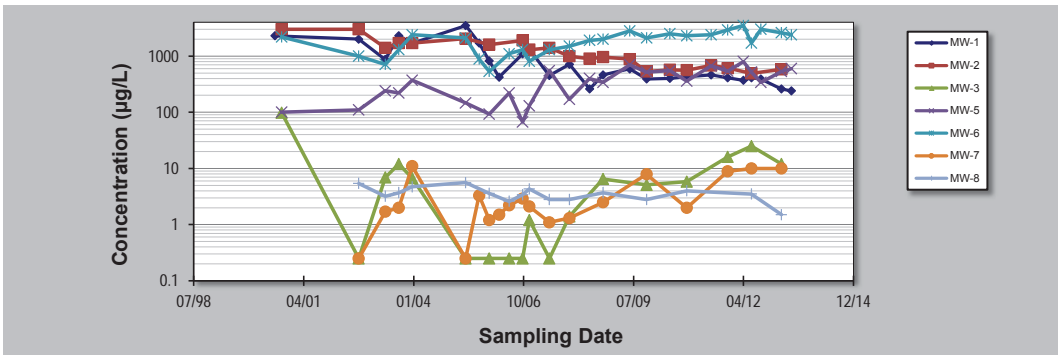
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 28-Jul-13	Job ID: 085.42620.0001
Facility Name: Maryland Square PCE Site	Constituent: PCE
Conducted By: Cardno ATC	Concentration Units: µg/L

Sampling Point ID:	MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8
--------------------	------	------	------	------	------	------	------

Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)							
		MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8	
1	Aug 00	2,300							
2	Oct 00		3,000	98	100	2,200			
3	Sep 02	2,000	3,000	0.25	110	1,000	0.25	5.4	
4	May 03	870	1,400	6.9	240	710	1.7	3.2	
5	Sep 03	2,300	1,700	12	220	1,300	2	3.7	
6	Jan 04	1,700	1,700	6.7	370	2,400	11	4.7	
7	May 05	3,500	2,050	0.25	146	2,090	0.25	5.6	
8	Sep 05	1,700				890	3.3		
9	Dec 05	820	1,600	0.25	93	530	1.2	3.6	
10	Mar 06	420					1.5		
11	Jun 06			0.25	220	1,100	2.2	2.6	
12	Oct 06	1,100	1,900	0.25	67	1,300	2.9	3.4	
13	Dec 06	1,300	1,300	1.2	130	810	2.1	4.3	
14	Mar 07								
15	Jun 07	450	1,400	0.25	550	1,300	1.1	2.8	
16	Sep 07								
17	Dec 07	710	1,000	1.4	170	1,500	1.3	2.8	
18	Mar 08								
19	Jun 08	260	900		400	1,900			
20	Oct 08	460	960	6.5	340	2,000	2.5	3.7	
21	Feb 09								
22	Jun 09	590	880		700	2,800			
23	Sep 09								
24	Nov 09	390	530	5.1	520	2,100	7.9	2.8	
25	Feb 10								
26	Jun 10	400	570		550	2,500			
27	Oct 10								
28	Nov 10	430	560	5.8	360	2,300	2	4	
29	Mar 11								
30	Jun 11	460	680		670	2,400			
31	Sep 11								
32	Nov 11	410	610	16	540	2,900	8.9		
33	Mar 12	370			800	3,500			
34	Jun 12	410	490	25	520	1,700	10	3.5	
35	Sep 12	390			340	3,000			
36	Nov 12								
37	Mar 13	260	580	12	530	2,600	10	1.5	
38	Jun 13	240			600	2400			
39									
40									

Coefficient of Variation:	0.89	0.59	2.07	0.58	0.42	0.97	0.29
Mann-Kendall Statistic (S):	-221	-159	29	148	165	66	-38
Confidence Factor:	>99.9%	>99.9%	85.3%	>99.9%	>99.9%	98.9%	95.2%
Concentration Trend:	Decreasing	Decreasing	No Trend	Increasing	Increasing	Increasing	Decreasing



Notes:

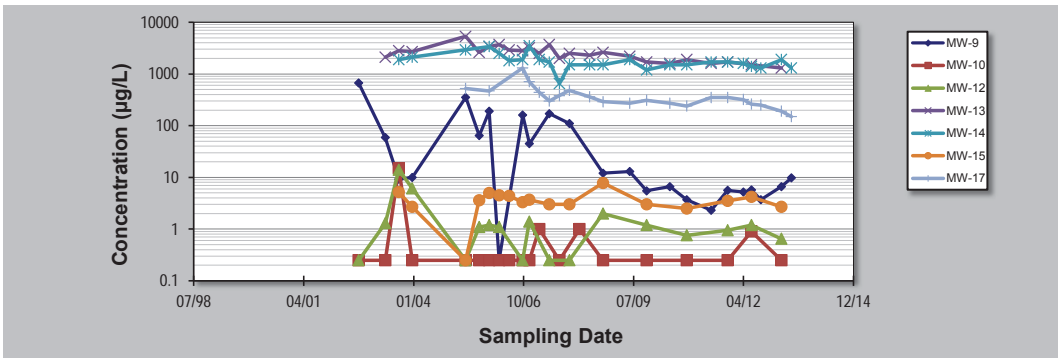
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S=0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 28-Jul-13	Job ID: 085.42620.0001
Facility Name: Maryland Square PCE Site	Constituent: PCE
Conducted By: Cardno ATC	Concentration Units: µg/L

Sampling Point ID:		MW-9	MW-10	MW-12	MW-13	MW-14	MW-15	MW-17
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02	670	0.25	0.25				
4	May 03	59	0.25	1.3	2,100			
5	Sep 03	9.2	15	14	2,800	1,900	5.2	
6	Jan 04	10	0.25	6.1	2,700	2,100	2.7	
7	May 05	353	0.25	0.25	5,310	2,920	0.25	520
8	Sep 05	64	0.25	1.1	2,600		3.6	
9	Dec 05	190	0.25	1.2	3,400	3,400	5	470
10	Mar 06	0.25	0.25	1.1	3,700	2,500	4.5	
11	Jun 06		0.25		2,900	1,800	4.4	
12	Oct 06	160	0.25	0.25	2,800	1,900	3.3	1,300
13	Dec 06	45	0.25	1.4	3,200	3,500	3.7	710
14	Mar 07		1		2,500	1,900		440
15	Jun 07	170		0.25	3,700	1,700	3	300
16	Sep 07		0.25		2,000	650		380
17	Dec 07	110		0.25	2,500	1,500	3	480
18	Mar 08		1					
19	Jun 08				2,300	1,500		360
20	Oct 08	12	0.25	2	2,600	1,500	7.8	290
21	Feb 09							
22	Jun 09	13			2,200	1,900		270
23	Sep 09							
24	Nov 09	5.5	0.25	1.2	1,700	1,200	3	310
25	Feb 10							
26	Jun 10	6.6			1,600	1,500		270
27	Oct 10							
28	Nov 10	3.7	0.25	0.76	1,900	1,500	2.5	240
29	Mar 11							
30	Jun 11	2.3			1,600	1,700		350
31	Sep 11							
32	Nov 11	5.6	0.25	0.95	1,700	1,700	3.5	350
33	Mar 12	5.2				1,600		320
34	Jun 12	5.7	0.9	1.2	1,500	1,400	4.2	260
35	Sep 12	3.7				1,300		250
36	Nov 12							
37	Mar 13	6.6	0.25	0.65	1,300	1,900	2.7	190
38	Jun 13	9.8				1,300		150
39								
40								
Coefficient of Variation:		1.90	3.00	1.73	0.36	0.36	0.43	0.62
Mann-Kendall Statistic (S):		-118	7	-17	-164	-132	-24	-142
Confidence Factor:		99.9%	57.7%	72.5%	>99.9%	99.9%	82.6%	>99.9%
Concentration Trend:		Decreasing	No Trend	No Trend	Decreasing	Decreasing	Stable	Decreasing



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S=0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 - Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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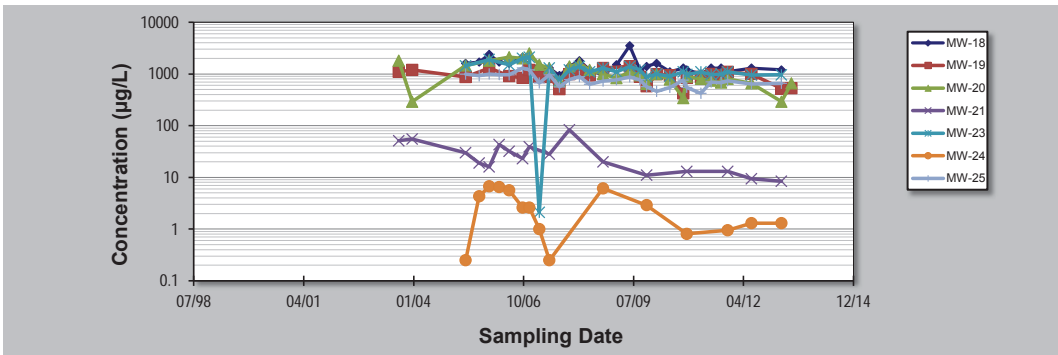
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 28-Jul-13	Job ID: 085.42620.0001
Facility Name: Maryland Square PCE Site	Constituent: PCE
Conducted By: Cardno ATC	Concentration Units: µg/L

Sampling Point ID:	MW-18	MW-19	MW-20	MW-21	MW-23	MW-24	MW-25
--------------------	-------	-------	-------	-------	-------	-------	-------

Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
		MW-18	MW-19	MW-20	MW-21	MW-23	MW-24	MW-25
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03		1,100	1,800	51			
6	Jan 04		1,200	290	55			
7	May 05	1,600	873	1,460	30	1,430	0.25	993
8	Sep 05	1,700			19		4.3	920
9	Dec 05	2,400	1,300	1,800	16	1,900	6.7	1,000
10	Mar 06	1,700			43		6.5	970
11	Jun 06	1,600	910	2,100	32	1,500	5.6	960
12	Oct 06	2,100	840	2,000	23	2,000	2.6	1,300
13	Dec 06	1,400	1,200	2,500	39	2,100	2.6	1,200
14	Mar 07	1,400	890	1,500		2.1	1	670
15	Jun 07	1,300	870	1,300	28	1,300	0.25	960
16	Sep 07	930	510	730		750		560
17	Dec 07	1,400	990	1,400	83	1,200		780
18	Mar 08	1,800	1,200	1,600		1,400		890
19	Jun 08	1,200	930	1,200		1,100		630
20	Oct 08	950	1,300	1,000	20	1,300	6.1	730
21	Feb 09	1,500		830		1,100		770
22	Jun 09	3,500	1,400	1,100		1,400		880
23	Sep 09	1,200	880	940		1,200		770
24	Nov 09	1,400	580	640	11	880	2.9	570
25	Feb 10	1,600	990	990		1,000		460
26	Jun 10	1,100	930	780		900		550
27	Oct 10	1,300	420	340		1,100		760
28	Nov 10	1,200	840	890	13	970	0.81	550
29	Mar 11	1,000	880	800		1,100		420
30	Jun 11	1,300	1,000	740		970		700
31	Sep 11	1,300	950	680		1,000		680
32	Nov 11	1,100	1,100	800	13	1,100	0.95	740
33	Mar 12							
34	Jun 12	1,300	1,000	660	9.4	950	1.3	640
35	Sep 12							
36	Nov 12							
37	Mar 13	1,200	520	290	8.4	960	1.3	660
38	Jun 13		530	660				
39								
40								

Coefficient of Variation:	0.35	0.27	0.51	0.69	0.35	0.82	0.27
Mann-Kendall Statistic (S):	-147	-56	-232	-73	-138	-28	-193
Confidence Factor:	99.8%	86.0%	>99.9%	99.9%	99.9%	90.8%	>99.9%
Concentration Trend:	Decreasing	Stable	Decreasing	Decreasing	Decreasing	Prob. Decreasing	Decreasing



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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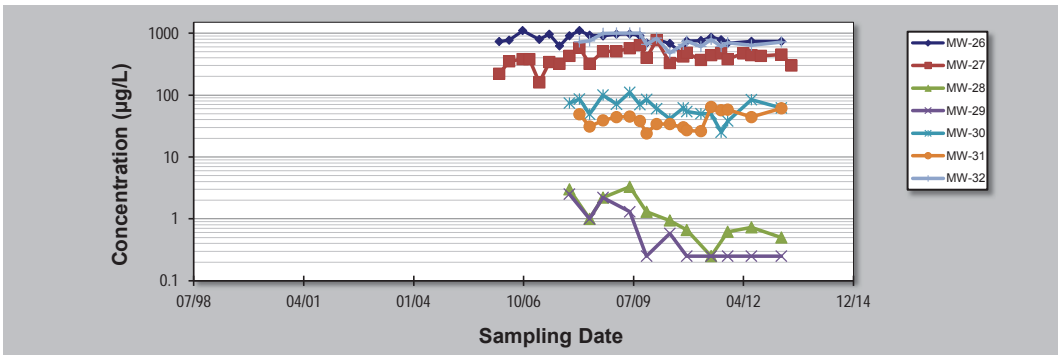
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 28-Jul-13	Job ID: 085.42620.0001
Facility Name: Maryland Square PCE Site	Constituent: PCE
Conducted By: Cardno ATC	Concentration Units: µg/L

Sampling Point ID:	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32
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Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
		MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06	730	220					
11	Jun 06	770	350					
12	Oct 06	1,100	380					
13	Dec 06		380					
14	Mar 07	790	160					
15	Jun 07	960	340					
16	Sep 07	620	320					
17	Dec 07	910	430	3	3	74		
18	Mar 08	1,100	580			86	49	720
19	Jun 08	930	320	1	1.0	49	31	750
20	Oct 08	900	510	2.2	2.2	100	39	990
21	Feb 09	960	510			71	44	1,000
22	Jun 09	970	570	3.3	1.3	110	45	1,000
23	Sep 09	910	640			70	38	1,000
24	Nov 09	690	400	1.3	0.25	85	24	660
25	Feb 10	790	770			60	34	830
26	Jun 10	680	330	0.94	0.58	41	34	480
27	Oct 10	450	420			62	30	660
28	Nov 10	750	480	0.66	0.25	54	27	740
29	Mar 11	760	370			50	26	610
30	Jun 11	860	440	0.25	0.25	50	64	790
31	Sep 11	780	470			25	57	610
32	Nov 11	690	380	0.62	0.25	38	58	700
33	Mar 12		470					
34	Jun 12	740	440	0.73	0.25	84	44	640
35	Sep 12		430					
36	Nov 12							
37	Mar 13	740	450	0.50	0.25	62	61	720
38	Jun 13		300					
39								
40								

Coefficient of Variation:	0.18	0.29	0.79	1.01	0.34	0.31	0.21
Mann-Kendall Statistic (S):	-74	70	-35	-34	-59	16	-42
Confidence Factor:	96.5%	91.3%	99.7%	99.6%	98.7%	72.9%	95.4%
Concentration Trend:	Decreasing	Prob. Increasing	Decreasing	Decreasing	Decreasing	No Trend	Decreasing



Notes:

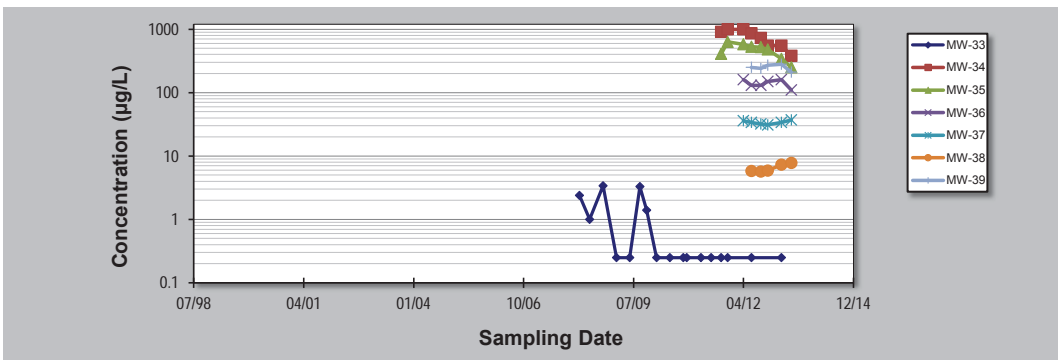
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 28-Jul-13	Job ID: 085.42620.0001
Facility Name: Maryland Square PCE Site	Constituent: PCE
Conducted By: Cardno ATC	Concentration Units: µg/L

Sampling Point ID:		MW-33	MW-34	MW-35	MW-36	MW-37	MW-38	MW-39
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06							
11	Jun 06							
12	Oct 06							
13	Dec 06							
14	Mar 07							
15	Jun 07							
16	Sep 07							
17	Dec 07							
18	Mar 08	2.4						
19	Jun 08	1.0						
20	Oct 08	3.4						
21	Feb 09	0.25						
22	Jun 09	0.25						
23	Sep 09	3.3						
24	Nov 09	1.4						
25	Feb 10	0.25						
26	Jun 10	0.25						
27	Oct 10	0.25						
28	Nov 10	0.25						
29	Mar 11	0.25						
30	Jun 11	0.25						
31	Sep 11	0.25	910	410				
32	Nov 11	0.25	1,000	630				
33	Mar 12	0.25	1,000	580	160	36		
34	Jun 12	0.25	860	530	130	34	5.8	250
35	Sep 12	0.25	730	520	130	32	5.7	240
36	Nov 12	0.25	550	480	150	31	5.9	270
37	Mar 13	0.25	550	340	160	34	7.3	280
38	Jun 13	0.25	380	250	110	37	7.8	210
39								
40								
Coefficient of Variation:		1.30	0.31	0.27	0.14	0.07	0.15	0.11
Mann-Kendall Statistic (S):		-52	-22	-18	-3	0	8	0
Confidence Factor:		98.3%	99.8%	98.4%	64.0%	39.3%	95.8%	40.8%
Concentration Trend:		Decreasing	Decreasing	Decreasing	Stable	Stable	Increasing	Stable



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
 - Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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