First Quarter 2014 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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April 25, 2014

Cardno ATC
Shaping the Future

Executive Summary

April 25, 2014

Herman Kishner Trust
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707 Wilshire Boulevard, 45th Floor
Los Angeles, California 90017

Re: First Quarter 2014 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 First Quarter 2014

Cardno ATC is currently performing quarterly monitoring and sampled 59 of the 59 site groundwater monitoring wells.

Current Phase of Project:	Monitoring and Sampling
Frequency of Sampling:	Groundwater: Select Wells Quarterly (Semi-annual or Annual for 2014)
Frequency of Monitoring:	Groundwater: Select Wells Quarterly (Semi-annual or Annual for 2014)
Purge Water Removed This Quarter:	72.25 gallons
Approximate Depth to Groundwater:	20.51 ft btoc
Groundwater Gradient:	Site Monitoring Network: 0.012 feet/foot
Groundwater Flow Direction:	Site Monitoring Network: East
Groundwater Analytical Methods:	Select VOCs by EPA 8260B, metals by EPA 6020, and hexavalent chromium (Cr(VI)) by EPA 218.6
Monitoring Wells Sampled with PCE Concentrations Greater than 5.0 µg/L:	35 of 59 monitoring points
Maximum PCE Concentration (µg/L):	7,600 (MW-14I)
Monitoring Wells Sampled with PCE Concentrations Greater than 5.0 µg/L Previous Quarter:	37 of 49 monitoring points
Maximum PCE Concentration Previous Quarter (µg/L):	10,000 (MW-14I)

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 ¼ of the Northeast ¼ 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.

Subsurface soil and groundwater conditions were investigated along the eastern boundary of the property as a result of a property transaction, in November of 2000, 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 (µg/L) or parts per billion (ppb).

Multiple soil and groundwater samples were taken from 2000 to 2004 after the initial discovery. Monitoring wells were installed both at the site and extending on to the Boulevard Mall property in a failed attempt to determine the eastern extent of the PCE plume.

Al Phillips the Cleaner (APTC) accepted responsibility for the release in February 2004 and assumed control of assessment activities from the Trust after which all site characterization and monitoring work was conducted by URS Corporation (URS). Converse was retained to review documents prepared by URS on behalf of the Trust.

Monitoring wells were installed in the residential neighbourhood starting in March 2005 east of the Boulevard Mall property. PCE concentrations in these wells were above the MCL levels of 5 µg/L, suggesting the eastern extent of the PCE plume was not defined. The discovery of the plume migration into the residential area raised concerns of possible vapor intrusion affecting residents in the neighbourhood. URS conducted an off-site soil vapor study in the Boulevard Mall parking lot in March 2007 at select locations in the residential area east of the mall. Soil vapor concentrations measured at total depth ranged from below method detection limits at Soil Vapor Boring (SVB)-2, and 11 to 170,000 micrograms per cubic meter (µg/m^3) at SVB-14.

APTC declared bankruptcy in July 2008 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 continued to maintain data consistency.

A permanent injunction was issued on December 27, 2010 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

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.

The revised schedule for the First Quarter 2014 sampling event prescribes sampling at 59 of the 59 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 monitoring well locations.

Select monitoring wells are sampled in 2014 on a quarterly, semi-annual, or annual basis as per agreement with NDEP. 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 2014 sampling schedule has been modified and approved by NDEP.

The NDEP modified the sampling schedule in response to Cardno ATC's request in the "Fourth Quarter 2013 Groundwater Monitoring and Sampling Report," dated January 28, 2014. The letter proposed that the 2014 monitoring be revised to include all site wells as the annual sampling event. The NDEP concurred with Cardno ATC's recommended sampling schedule, with minor changes, in the response letter dated February 21, 2014.

The NDEP approved 2014 annual sampling schedule for monitoring wells in the groundwater monitoring program is as follows:

- First Quarter – MW-1 through MW-3, MW-5 through MW-39, MW-40 (all depths), MW-41, MW-42, MW-43 MW-14I, MW-19I, 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-18, MW-38, MW-41, MW-42, MW-43, MW-14I, MW-19I, MW-6D1, MW-19D1, MW-19D2, MW-19D3, MW-20D2, MW-40 CMT-30, MW-40 CMT-45, and MW-40 CMT-60 (plus any newly installed wells).

- Third Quarter – MW-1, MW-5, MW-6, MW-13, MW-14, MW-18, MW-19, MW-23, MW-25, MW-26, MW-32, MW-38, MW-41, MW-42, MW-43, MW-14I, MW-19I, MW-6D1, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, MW-20D3, MW-40 CMT-30, MW-40 CMT-45, and MW-40 CMT-60 (plus any newly installed wells).

- Fourth Quarter – MW-1, MW-5, MW-6, MW-18, MW-38, MW-41, MW-42, MW-43, MW-14I, MW-19I, MW-6D1, MW-19D1, MW-19D2, MW-19D3, MW-20D2, MW-40 CMT-30, MW-40 CMT-45, and MW-40 CMT-60 (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. 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) for consistency with previous events. Groundwater was pumped at a flow rate of 0.25 L/min. The pump rate was lowered following the stabilization of groundwater parameters 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 properly labeled steel 55-gallon drums 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. 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-19I, MW-20, and all depths of MW-40 CMT was also performed.

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 a duplicate groundwater sample from monitoring well MW-18.

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 and three comments made about sample issues dealing with analysis under EPA 8260B. The sample for MW-19I was purple, most likely due to saturation from the prior nearby potassium permanganate pilot test, and therefore the analysis could not be performed. Other comments made relating to EPA 8260B were:

- Surrogate Toluene-d8 recovery was below the laboratory acceptable limit for sample N012131-024, N012131-026 possibly due to matrix interference. Reanalysis confirms low recovery caused by matrix effect
- Matrix Spike (MS) on QC sample N012131-051AMS is outside recovery criteria for Vinyl Chloride 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 Vinyl Chloride; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

After reanalysis, no laboratory quality control data were flagged outside of established tolerances. The analytical data on water quality for the first 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 12.75 feet bgs (MW-18) to 27.39 feet bgs (MW-16). The average groundwater elevation of monitored wells (excluding MW-40 CMT-35 through CMT-60) was 20.51 feet bgs. There was a 1.02 foot increase when comparing similar monitoring wells that had groundwater measurements for both the Fourth Quarter 2013 and

First Quarter 2014. Based on the first quarter results, the local hydraulic gradient across the site is generally toward the east.

DO readings for across the site ranged from 0.92 to 5.98 milligrams per liter (mg/L). ORP readings from across the site ranged from -157.8 to 626.3 millivolts (mV).

2.2.1 Vertical Gradient Assessment

Cardno ATC utilized measured groundwater elevations to determine vertical gradients within the five sets of clustered wells at the site (MW-1/MW-9, MW-6D, MW-19D, MW-20D, and MW-40 CMT). Vertical gradients are measured to determine the upward or downward flow of groundwater. Clustered wells measured will have a deep and shallow well that are screened at different lengths which shows the vertical movement of the water within the adjacent geologic units. The EPA On-Line Vertical Gradient Calculator (http://www.epa.gov/athens/learn2model/part-two/onsite/vgradient.html) was used to determine the vertical gradient at the various well clusters.

Table 1: Vertical Gradient Calculation, 1st Quarter 2014

Clustered/ Nested Well	Surface Elevation (feet asml)	Depth to Well Screen (feet bgs)	Screen Length (feet)	Depth to Water (feet bgs)	Magnitude (Screen mid-point value)	Flow Direction
MW-1 MW-9	MW-1: 1992.01 MW-9: 1992.25	MW-1: 10 MW-9: 48.5	MW-1: 20 MW-9: 1.5	MW-1: 20.10 MW-9: 20.36	0.0008347	**Down**
MW-6D1 MW-6D2	MW-6D1: 1988.72 MW-6D2: 1988.72	MW-6D1: 50 MW-6D2: 80	MW-6D1: 10 MW-6D2: 10	MW-6D1: 16.20 MW-6D2: 15.90	0.01000	Up
MW-6D2 MW-6D3	MW-6D2: 1988.72 MW-6D3: 1988.72	MW-6D2: 80 MW-6D3: 100	MW-6D2: 10 MW-6D3: 10	MW-6D2: 15.90 MW-6D3: 16.70	0.04000	Down
MW-6D1 MW-6D3	MW-6D1: 1988.72 MW-6D3: 1988.72	MW-6D1: 50 MW-6D3: 100	MW-6D1: 10 MW-6D3: 10	MW-6D1: 16.20 MW-6D3: 16.70	0.01000	Down
MW-19D1 MW-19D2	MW-19D1: 1979.25 MW-19D2: 1979.28	MW-19D1: 31 MW-19D2: 60	MW-19D1: 20 MW-19D2: 10	MW-19D1: 25.91 MW-19D2: 26.97	0.04297	Down
MW-19D2 MW-19D3	MW-19D2: 1979.28 MW-19D3: 1979.32	MW-19D1: 60 MW-19D3: 92	MW-19D1: 10 MW-19D3: 10	MW-19D2: 26.97 MW-19D3: 24.72	0.07165	Up
MW-19D1 MW-19D3	MW-19D1: 1979.25 MW-19D3: 1979.32	MW-19D1: 31 MW-19D3: 92	MW-19D1: 20 MW-19D3: 10	MW-19D1: 25.91 MW-19D3: 24.72	0.02253	Up
MW-20D1 MW-20D2	MW-20D1: 1978.81 MW-20D2: 1978.66	MW-20D1: 25 MW-20D2: 55	MW-20D1: 20 MW-20D2: 10	MW-20D1: 25.70 MW-20D2: 26.05	0.02016	Down
MW-20D2 MW-20D3	MW-20D2: 1978.66 MW-20D3: 1978.69	MW-20D2: 55 MW-20D3: 90	MW-20D2: 10 MW-20D3: 10	MW-20D2: 26.05 MW-20D3: 22.92	0.09036	Up

Clustered/ Nested Well	Surface Elevation (feet asml)	Depth to Well Screen (feet bgs)	Screen Length (feet)	Depth to Water (feet bgs)	Magnitude (Screen mid-point value)	Flow Direction
MW-20D1 MW-20D3	MW-20D1: 1978.81 MW-20D3: 1978.69	MW-20D1: 25 MW-20D3: 90	MW-20D1: 20 MW-20D3: 10	MW-20D1: 25.70 MW-20D3: 22.92	0.04433	Up
MW-40 CMT-30 MW-40 CMT-45	MW-40 CMT-30: 1978.48 MW-40 CMT-45: 1978.48	MW-40 CMT-30: 30 MW-40 CMT-45: 45	MW-40 CMT-30: 0.6 MW-40 CMT-45: 0.6	MW-40 CMT-30: 26.52 MW-40 CMT-45: 26.55	0.002000	**Down**
MW-40 CMT-45 MW-40 CMT-55	MW-40 CMT-45: 1978.48 MW-40 CMT-55: 1978.48	MW-40 CMT-45: 45 MW-40 CMT-55: 55	MW-40 CMT-45: 0.6 MW-40 CMT-55: 0.6	MW-40 CMT-45: 26.55 MW-40 CMT-55: 26.56	0.001000	**Down**
MW-40 CMT-30 MW-40 CMT-55	MW-40 CMT-30: 1978.48 MW-40 CMT-55: 1978.48	MW-40 CMT-30: 30 MW-40 CMT-55: 55	MW-40 CMT-30: 0.6 MW-40 CMT-55: 0.6	MW-40 CMT-30: 26.52 MW-40 CMT-55: 26.56	0.001600	Down

Bold: Direction change from previous quarter

2.3 Groundwater Analytical Results

Cardno ATC collected groundwater samples on March 3rd through 7th and 10th through 13th, 2014 from the existing groundwater monitoring wells (MW-1 through MW-3, MW-5 through MW-39, MW-40 (all depths), MW-41, MW-42, MW-43 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 2: 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	20.10	1971.91	350	<0.50	Decreasing
MW-2	19.15	1964.38	340	1.8	Decreasing
MW-3	20.25	1963.56	11	<0.50	No Trend
MW-5	19.37	1969.32	440	2.2	Increasing
MW-6	20.00	1968.12	2,700	11	Increasing

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-6D1	16.20	1972.52	1.2	<0.50	No Trend
MW-6D2	15.90	1972.82	1.6	<0.50	No Trend
MW-6D3	16.70	1972.02	1.9	<0.50	No Trend
MW-7	18.12	1972.66	1.3	<0.50	Increasing
MW-8	20.45	1971.26	1.6	<0.50	Decreasing
MW-9	20.36	1971.89	11	<0.50	Decreasing
MW-10	21.43	1961.85	<0.50	<0.50	No Trend
MW-11	26.32	1953.55	<0.50	<0.50	N/A[2]
MW-12	16.26	1979.69	0.67	<0.50	No Trend
MW-13	18.37	1964.94	1,500	3.7	Decreasing
MW-14	18.89	1968.44	930	2.2	Decreasing
MW-14I	19.53	1968.01	7,600	32	**No Trend** (Stable 4th Quarter 2013)
MW-15	16.25	1966.49	2.8	<0.50	Stable
MW-16	27.39	1953.14	<0.50	<0.50	N/A[2]
MW-17	19.67	1971.37	69	<0.50	Decreasing
MW-18	12.75	1950.15	230	<0.50	Decreasing
MW-19	26.66	1953.47	910	3.7	**Probably Decreasing** (Decreasing 4th Quarter 2013)
MW-19I	25.62	1952.75	<0.50	<0.50	No Trend
MW-19D1	25.91	1953.34	3.7	<0.50	**Stable** (No Trend 4th Quarter 2013)
MW-19D2	26.97	1952.31	0.53	<0.50	No Trend
MW-19D3	24.72	1954.60	17	<0.50	No Trend
MW-20	26.46	1953.36	170	0.66	Decreasing
MW-20D1	25.70	1953.11	76	<0.50	**Stable** (No Trend 4th Quarter 2013)
MW-20D2	26.05	1952.61	11	<0.50	**Stable** (No Trend 4th Quarter 2013)
MW-20D3	22.92	1955.77	7.9	<0.50	No Trend
MW-21	25.58	1953.67	1.4	<0.50	Decreasing
MW-22	26.95	1948.24	0.58	<0.50	N/A[2]
MW-23	16.63	1945.82	170	0.63	Decreasing
MW-24	14.34	1946.48	2.0	<0.50	**Stable** (Probably Decreasing 4th Quarter 2013)
MW-25	19.48	1939.81	340	0.61	Decreasing
MW-26	17.44	1936.01	210	<0.50	Decreasing
MW-27	14.67	1929.48	220	0.59	No Trend
MW-28	12.87	1930.20	0.69	<0.50	Decreasing

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-29	13.55	1918.80	<0.50	<0.50	Decreasing
MW-30	17.14	1923.45	42	<0.50	**Decreasing** (Probably Decreasing 4th Quarter 2013)
MW-31	16.45	1921.21	35	<0.50	No Trend
MW-32	18.83	1934.07	640	12	Decreasing
MW-33	17.66	1933.32	<0.50	<0.50	Decreasing
MW-34	18.75	1975.13	360	0.73	Decreasing
MW-35	19.72	1971.65	92	<0.50	Decreasing
MW-36	19.50	1935.80	62	<0.50	**Probably Decreasing** (Stable 4th Quarter 2013)
MW-37	18.44	1911.54	30	<0.50	**Stable** (No Trend 4th Quarter 2013)
MW-38	14.65	1894.73	7.3	<0.50	**Increasing** (Probably Increasing 4th Quarter 2013)
MW-39	24.87	1942.68	59	<0.50	**Stable** (No Trend 4th Quarter 2013)
MW-40 CMT-30	26.52	1951.97	4.5	<0.50	**Probably Decreasing** (Decreasing 4th Quarter 2013)
MW-40 CMT-35	26.47	1952.02	2.6	<0.50	No Trend
MW-40 CMT-40	26.50	1951.99	27	<0.50	Decreasing
MW-40 CMT-45	26.55	1951.94	24	<0.50	**Probably Decreasing** (Stable 4th Quarter 2013)
MW-40 CMT-50	26.49	1952.00	72	0.89	Stable
MW-40 CMT-55	26.56	1951.93	130	3.1	Stable
MW-40 CMT-60	26.54	1951.95	360	6.5	**Probably Decreasing** (Decreasing 4th Quarter 2013)
MW-41	14.55	1894.34	2.1	<0.50	N/A[1]
MW-42	16.01	1894.30	<0.50	<0.50	N/A[1]
MW-43	16.11	1942.22	<0.50	<0.50	N/A[1]

Notes: [1]Unable to evaluate trend without at least four sampling events of data
Notes: [2]Mann-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 sampled and dtw measurements not taken
Amsl: Above Mean Sea Level
Bold: Trend change from previous quarter

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 1893.73 feet above mean sea level (amsl) (MW-38) to 1979.69 feet amsl (MW-12). Groundwater elevations are summarized in Tables 1, 1-A, and 2-A.

Groundwater elevations increased across groundwater monitoring wells located on the Maryland Square property by 0.26 feet compared with similar wells with Fourth Quarter 2013 data. Groundwater elevations across the Boulevard Mall property increased by an average of 1.11 feet. Groundwater elevations increased across

groundwater monitoring wells located on the surrounding streets and golf course area by 1.22 feet when compared with similar wells with Fourth 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 monitoring wells except MW-10, MW-11, MW-19I, MW-29, MW-33, MW-42, and MW-43. PCE was detected at concentrations ranging from 0.53 µg/L (MW-19D2) to 7,600 µg/L (MW-14I). PCE concentrations identified by the laboratory in the groundwater samples collected from wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-9, MW-13, MW-14, MW-14I, MW-17, MW-18, MW-19, MW-19D3, MW-20, MW-20D1, MW-20D2, MW-20D3, MW-23, MW-25, MW-26, MW-27, MW-30, MW-31, MW-32, MW-34 through MW-39, and MW-40 CMT-40 through MW-40 CMT-60 exceeded the maximum contaminant levels (MCL) for PCE in groundwater of 5 µg/L.

Additional monthly sampling was conducted in January and February at monitoring well MW-19D. Additional testing was recommended at the well following pilot testing activities utilizing potassium permanganate. Pilot testing activities seemed to have unintended consequences in the movement of contamination due to the injection that warranted further investigation. The following table shows the results of testing following pilot testing activities that occurred in March 2013

Table 3: Summary of MW-19D Groundwater Testing, 1st Quarter 2013 to 1st Quarter 2014

Well ID	Date	PCE (µg/L)	TCE (µg/L)
MW-19D1	03/08/13	300	2.9
	06/13/13	690	4.2
	09/09/13	990	4.2
	11/08/13	620	3.5
	01/27/14	490	2.4
	02/19/14	210	1.1
	03/12/14	3.7	<0.50
MW-19D2	03/08/13	170	1.5
	06/13/13	<0.50	<0.50
	09/09/13	<0.50	<0.50
	11/08/13	<0.50	<0.50
	01/27/14	<0.50	<0.50
	02/19/14	<0.50	<0.50
	03/12/14	0.53	<0.50
MW-19D3	03/08/13	0.50	<0.50
	06/13/13	0.68	<0.50
	09/09/13	710	4.8
	11/08/13	160	0.75
	01/27/14	32	<0.50
	02/19/14	36	<0.50
	03/12/14	17	<0.50

Shaded row represents results prior to pilot testing

After pilot testing, by the Third Quarter 2013 sampling event, PCE concentrations had increased significantly at MW-19D1 and MW-19D3 while decreasing significantly at MW-19D2. After monthly and quarterly monitoring of MW-19D, it appears that PCE concentrations have either stabilized or are decreasing from the high points observed during the Third Quarter 2013 sampling.

A duplicate sample was collected from MW-18. MW-18 PCE concentrations were measured at 230 µg/L and 230 µg/L, a relative percent difference (RPD) of 0.0%. The duplicate sample result did not show significant statistical variation based on the levels of the concentrations.

The Mann-Kendall Trend Test for Plume Stability was used to determine whether the plume is increasing, probably increasing, decreasing, probably increasing, stable, or showing no trend at each particular well. At least four quarters of sampling data is needed for the test to determine whether the plume is increasing or decreasing at a well, so the wells installed this year were not included in the anaylsis. A confidence factor greater than 95% was needed to state whether PCE concentrations at a given well are increasing or decreasing. A confidence factor between 90% and 95% was needed to state PCE concentrations at a given well are increasing or decreasing. Past sample data was gathered for each well. Results of the Mann-Kendall Test indicated that the PCE plume was decreasing at twenty one wells and increasing at four wells. The Mann-Kendall Test also showed that the plume was probably decreasing at five wells, probably increasing at zero well, stable at nine wells, and showed no trend at fourteen wells (seventeen including MW-11, MW-16, and MW-22 which weren't analysed due to historically low readings).

There are currently three approximate vertical zones that monitoring wells are grouped in at the site. PCE concentrations and plume size varied significantly based on its location among the three zones. 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 is considered to be wells with screen intervals and pump inlet levels from 40 feet bgs to 55 feet bgs, and the lower zone is considered to be wells with screen intervals and pump inlet levels greater than 55 feet bgs.

Trichloroethene (TCE) was detected at concentrations ranging from 0.59 µg/L to 32 µg/L in the groundwater samples collected from wells MW-2, MW-5, MW-6, MW-13, MW-14, MW-14I, MW-19, MW-20, MW-23, MW-25, MW-27, MW-32, MW-34, and MW-40 CMT-50 through 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 (11 µg/L), MW-14I (32 µg/L), MW-32 (12. µg/L), and MW-40 CMT-60 (6.5 µg/L).

Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-6 (2.3 µg/L), and MW-14I (17 µg/L), and MW-40 CMT-60 (2.2 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 ($KMnO_4$) and PulseOx. The following table shows Tetra Tech data along with concentrations detected during Cardno ATC's successive sampling events.

Table 4: Summary of Metals Concentrations in Select Wells, 1st Quarter 2013 to 1st Quarter 2014

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
	09/09/13	840	4.0	<0.50	1.8	1.9
	11/07/13	440	3.3	<0.50	1.3	1.7
	03/07/14	910	3.2	<0.50	1.7	2.0
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

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
	05/02/13	0.61	1.2	20,000	43	NA
	06/12/13	<0.50	0.34	62,000	87	NA*
	09/09/13	<0.50	0.24	26,000	12	NA*
	11/08/13	<0.50	1.1	48,000	290	NA*
	03/12/14	<0.50	<0.10	51,000	300	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
	09/09/13	570	3.2	<0.50	1.1	1.2
	11/07/13	530	2.6	<0.50	<1.0	1.3
	03/12/14	170	3.6	64	5.1	3.5
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
	09/04/13	2.1	2.3	43	55	120
	11/06/13	1.3	3.6	77	110	110
	03/06/14	4.5	3.6	83	15	17
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
	09/04/13	9.6	9.6	450	<1.0	0.23
	11/06/13	12	7.8	430	<1.0	<0.20
	03/06/14	2.6	4.6	370	<1.0	0.31
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
	09/04/13	37	2.7	100	22	25
	11/06/13	51	1.9	61	14	15
	03/06/14	27	1.9	360	1.3	2.0
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
	09/04/13	110	2.4	100	7.6	8.3
	11/06/13	77	1.5	110	6.0	6.1
	03/06/14	24	1.8	160	4.0	5.1
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
	09/11/13	24	4.3	43	<1.0	0.39
	11/06/13	120	1.9	250	<1.0	0.35
	03/06/14	72	2.0	120	<1.0	0.25
MW-40 CMT-55	03/25/13	390	1.5	NA	ND	NA

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
(PulseOx Pilot Test, downgradient)	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
	09/11/13	38	3.4	38	<1.0	0.49
	11/06/13	110	2.4	69	20	11
	03/06/14	130	1.2	380	4.7	5.1
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
	09/11/13	20	2.5	18	<1.0	0.92
	11/06/13	190	0.96	43	3.2	3.7
	03/06/14	360	1.3	470	4.4	1.3

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 trivalent and hexavalent 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. 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). Total chromium and hexavalent chromium levels have decreased in three of wells analysed compared to the previous quarter, increased in one well, and remained stable in six wells. Hexavalent chromium levels ranged from 0.25 µg/L to 17 µg/L. Monitoring well MW-19I (300 µg/L) exceeded the MCL of 100 µg/L for total chromium in groundwater. No MCL has been established for CR(VI), but NDEP has set a basic comparison level (BCL) of 100 µg/L in groundwater, which none of the monitoring wells exceeded. Literature suggests that the increase of chromium levels may be a temporary condition. With the exception of MW-19I, MW-40-CMT-55, and MW-40 CMT-60, monitoring wells affected by the pilot testing appear to have returned to pre-pilot testing conditions. Metals will continue to be monitored in MW-19I, MW-40-CMT-55, and MW-40 CMT-60 until pre-pilot test conditions are identified.

3 Summary

Cardno ATC provides the following summary based on the results of the First Quarter 2014 groundwater sampling event:

- Tetrachloroethene (PCE) was detected at concentrations ranging from 0.53 µg/L to 7,600 µg/L. The MCL for PCE in groundwater is 5 µg/L. PCE concentrations are summarized in the following table:

Table 5: Summary of PCE Concentrations in Monitoring Wells across the Site, 1st Quarter 2014

Non Detect (<0.50 µg/L)	>0.50 µg/L to <5.0 µg/L	5.0 µg/L to 7,600 µg/L	
MW-10	MW-6D1	MW-1	MW-25
MW-11	MW-6D2	MW-2	MW-26
MW-16	MW-6D3	MW-3	MW-27
MW-19I	MW-7	MW-5	MW-30
MW-29	MW-8	MW-6	MW-31
MW-33	MW-12	MW-9	MW-32
MW-42	MW-15	MW-13	MW-34
MW-43	MW-19D1	MW-14	MW-35
	MW-19D2	MW-14I	MW-36
	MW-21	MW-17	MW-37
	MW-22	MW-18	MW-38
	MW-24	MW-19	MW-39
	MW-28	MW-19D3	MW-40 CMT-40
	MW-40 CMT-30	MW-20	MW-40 CMT-45
	MW-40 CMT-35	MW-20D1	MW-40 CMT-50
	MW-41	MW-20D2	MW-40 CMT-55
		MW-20D3	MW-40 CMT-60
		MW-23	

- Trichloroethene (TCE) was detected at concentrations ranging from 0.59 µg/L to 32 µg/L. The MCL for TCE in groundwater is 5 µg/L. TCE concentrations are summarized in the following table:

Table 6: Summary of TCE Concentrations in Monitoring Wells across the Site, 1st Quarter 2014

Non Detect (<0.50 µg/L)		>0.5 µg/L to <5.0 µg/L	5.0 µg/L to 32 µg/L
MW-1	MW-21	MW-2	MW-6
MW-3	MW-22	MW-5	MW-14I
MW-6D1	MW-24	MW-13	MW-32
MW-6D2	MW-26	MW-14	MW-40 CMT-60
MW-6D3	MW-28	MW-19	
MW-7	MW-29	MW-20	
MW-8	MW-30	MW-23	
MW-9	MW-31	MW-25	
MW-10	MW-33	MW-27	
MW-11	MW-35	MW-34	
MW-12	MW-36	MW-40 CMT-50	
MW-15	MW-37	MW-40 CMT-55	
MW-16	MW-38		
MW-17	MW-39		

Non Detect (<0.50 µg/L)		>0.5 µg/L to <5.0 µg/L	5.0 µg/L to 32 µg/L
MW-18	MW-40 CMT-30		
MW-19I	MW-40 CMT-35		
MW-19D1	MW-40 CMT-40		
MW-19D2	MW-40 CMT-45		
MW-19D3	MW-41		
MW-20D1	MW-42		
MW-20D2	MW-43		
MW-20D3			

- Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-6 (2.3 µg/L), and MW-14I (17 µg/L), and MW-40 CMT-60 (2.2 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 (2.0 µg/L), MW-20 (3.5 µg/L), MW-40 CMT-30 (17 µg/L), MW-40 CMT-35 (0.31 µg/L), MW-40 CMT-40 (2.0 µg/L), MW-40 CMT-45 (5.1 µg/L), MW-40-CMT-50 (0.25 µg/L), MW-40 CMT-55 (5.1 µg/L), and MW-40 CMT-60 (1.3 µg/L). Tested monitoring wells were below the NDEP basic comparison level (BCL) of 110 µg/L in groundwater. However, the total chromium concentration measured in MW-19I (300 µg/L) exceeded the MCL of 100 µg/L in groundwater. MW-19I was not able to be analysed for hexavalent chromium content due to the color of the groundwater sample.

3.1 Recommendations

Cardno ATC recommends continuing monitoring and sampling of the site monitoring wells in accordance with the NDEP approved 2014 schedule.

After approximately one year of metals testing, with the exception of MW-19I, MW-40-CMT-55, and MW-40 CMT-60, monitoring wells affected by the pilot testing appear to have returned to pre-pilot testing conditions. Metals will continue to be monitored in MW-19I, MW-40-CMT-55, and MW-40 CMT-60 until pre-pilot test conditions are identified.

Cardno ATC recommends continuing quarterly monitoring of MW-19D to monitor conditions.

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

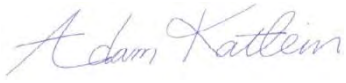
This First Quarter 2014 Groundwater Monitoring Report for Maryland Square PCE Site located at 3661 South Maryland Parkway, Las Vegas, Nevada, has been prepared in accordance with Nevada Administrative Code (NAC), Chapter 459, Section 9717.

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
Senior 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

Cardno ATC

Shaping the Future

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	Mar 14	1992.01	20.10	1971.91	10-30	1.71	2.2	1.4	**350**	<0.50	<0.50
MW-7	Sep 02	Mar 14	1990.78	18.12	1972.66	10-30	4.18	2.1	90.3	1.3	<0.50	<0.50
MW-8	Sep 02	Mar 14	1991.71	20.45	1971.26	10-30	5.41	2.0	88.7	1.6	<0.50	<0.50
MW-9	Sep 02	Mar 14	1992.25	20.36	1971.89	48.5-50	4.07	0.9	74.8	**11**	<0.50	<0.50
MW-12	Sep 02	Mar 14	1995.95	16.26	1979.69	13.5-33.5	4.42	2.1	47.7	0.67	<0.50	<0.50
MW-17	Nov 03	Mar 14	1991.04	19.67	1971.37	15-30	2.24	2.1	46.5	**69**	<0.50	<0.50
MW-34	Dec 11	Mar 14	1993.88	18.75	1975.13	--	3.75	2.2	80.8	**360**	0.73	<0.50
MW-35	Dec 11	Mar 14	1991.37	19.72	1971.65	--	5.38	2.1	89.3	**92**	<0.50	<0.50
Project Monitoring Wells Located on Boulevard Mall Property												
MW-2	Oct 00	Mar 14	1983.53	19.15	1964.38	10-32	1.59	2.0	-64.8	**340**	1.8	<0.50
MW-3	Oct 00	Mar 14	1983.81	20.25	1963.56	10-31	1.99	2.8	149.2	**11**	<0.50	<0.50
MW-4	Oct 00	Mar 12	1989.86	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-5	Oct 00	Mar 14	1988.69	19.37	1969.32	10-32	5.06	2.0	-84.6	**440**	2.2	<0.50
MW-6	Oct 00	Mar 14	1988.12	20.00	1968.12	10-32	4.76	1.9	-108.3	**2,700**	**11**	2.3
MW-6D1	Jan 13	Mar 14	1988.72	16.20	1972.52	50-60	4.30	0.3	86.9	1.2	<0.50	<0.50
MW-6D2	Jan 13	Mar 14	1988.72	15.90	1972.82	80-90	4.35	0.3	88.4	1.6	<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	Mar 14	1988.72	16.70	1972.02	100-110	5.37	0.3	61.1	1.9	<0.50	<0.50
MW-10	Sep 02	Mar 14	1983.28	21.43	1961.85	10-30	4.71	1.9	-77.8	<0.50	<0.50	<0.50
MW-11	Sep 02	Mar 14	1979.87	26.32	1953.55	13.5-33.5	0.92	2.1	-19.4	<0.50	<0.50	<0.50
MW-13	May 03	Mar 14	1983.31	18.37	1964.94	9-29	3.62	2.1	-157.8	**1,500**	3.7	<0.50
MW-14	Nov 03	Mar 14	1987.33	18.89	1968.44	15-40	5.98	2.1	-114.2	**930**	2.2	<0.50
MW-14I	Jul 12	Mar 14	1987.54	19.53	1968.01	40-55	4.44	0.7	134.2	**7,600**	**32**	17
MW-15	Nov 03	Mar 14	1982.74	16.25	1966.49	15-32	2.93	2.0	66.2	2.8	<0.50	<0.50
MW-16	Nov 03	Mar 14	1980.53	27.39	1953.14	19-32	2.53	1.8	23.0	<0.50	<0.50	<0.50
MW-19	Nov 03	Mar 14	1980.13	26.66	1953.47	19-35	3.17	2.0	159.5	**910**	3.7	<0.50
MW-19D1	Jan 13	Jan 14	1979.25	25.81	1953.44	31-51	4.80	0.7	274.0	**490**	2.4	<0.50
MW-19D1	Jan 13	Feb 14	1979.25	25.83	1953.42	31-51	3.69	0.4	230.2	**210**	1.1	<0.50
MW-19D1	Jan 13	Mar 14	1979.25	25.91	1953.34	31-51	4.05	0.3	239.4	3.7	<0.50	<0.50
MW-19D2	Jan 13	Jan 14	1979.28	26.66	1952.62	60-70	3.47	1.3	530.6	<0.50	<0.50	<0.50
MW-19D2	Jan 13	Feb 14	1979.28	26.85	1952.43	60-70	2.11	1.3	501.8	<0.50	<0.50	<0.50
MW-19D2	Jan 13	Mar 14	1979.28	26.97	1952.31	60-70	3.98	1.4	508.5	0.53	<0.50	<0.50
MW-19D3	Jan 13	Jan 14	1979.32	24.87	1954.45	92-102	4.78	0.3	368.0	**32**	<0.50	<0.50
MW-19D3	Jan 13	Feb 14	1979.32	24.67	1954.65	92-102	4.59	0.3	344.4	**36**	<0.50	<0.50
MW-19D3	Jan 13	Mar 14	1979.32	24.72	1954.60	92-102	4.40	0.3	79.5	**17**	<0.50	<0.50
MW-19I	Jul 12	Mar 14	1978.37	25.62	1952.75	34-54	3.63	2.2	626.3	<0.50	<0.50	<0.50
MW-20	Nov 03	Mar 14	1979.82	26.46	1953.36	19-35	3.85	2.0	344.8	**170**	0.66	<0.50
MW-20D1	Jan 13	Mar 14	1978.81	25.70	1953.11	25-45	4.86	0.6	75.7	**76**	<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	Mar 14	1978.66	26.05	1952.61	55-65	5.42	0.3	68.3	**11**	<0.50	<0.50
MW-20D3	Jan 13	Mar 14	1978.69	22.92	1955.77	90-100	4.78	0.3	277.1	**7.9**	<0.50	<0.50
MW-21	Nov 03	Mar 14	1979.25	25.58	1953.67	19-36	2.74	2.0	429.6	1.4	<0.50	<0.50
MW-40 CMT-30	Jul 12	Mar 14	1978.49	26.52	1951.97	30-30.6	3.76	2.0	102.5	4.5	<0.50	<0.50
MW-40 CMT-35	Jul 12	Mar 14	1978.49	26.47	1952.02	35-35.6	3.56	1.7	127.5	2.6	<0.50	<0.50
MW-40 CMT-40	Jul 12	Mar 14	1978.49	26.50	1951.99	40-40.6	3.22	1.8	45.8	**27**	<0.50	<0.50
MW-40 CMT-45	Jul 12	Mar 14	1978.49	26.55	1951.94	45-45.6	4.67	1.8	56.9	**24**	<0.50	<0.50
MW-40 CMT-50	Jul 12	Mar 14	1978.49	26.49	1952.00	50-50.6	3.34	1.7	40.7	**72**	0.89	<0.50
MW-40 CMT-55	Jul 12	Mar 14	1978.49	26.56	1951.93	55-55.6	3.94	1.6	-69.0	**130**	3.1	<0.50
MW-40 CMT-60	Jul 12	Mar 14	1978.49	26.54	1951.95	60-60.6	5.53	1.7	-83.5	**360**	**6.5**	2.2
Project Monitoring Wells Located on Surrounding Streets and Golf Course												
MW-18	Nov 03	Mar 14	1962.90	12.75	1950.15	5-26	4.60	2.1	246.8	**230**	<0.50	<0.50
MW-22	Mar 05	Mar 14	1975.19	26.95	1948.24	15-36	4.97	2.2	16.8	0.58	<0.50	<0.50
MW-23	Mar 05	Mar 14	1962.45	16.63	1945.82	5-26	2.53	2.1	226.1	**170**	0.63	<0.50
MW-24	Mar 05	Mar 14	1960.82	14.34	1946.48	5-26	2.35	1.9	41.9	2.0	<0.50	<0.50
MW-25	Mar 05	Mar 14	1959.29	19.48	1939.81	5-26	2.67	2.1	229.4	**340**	0.61	<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 Surrounding Streets and Golf Course												
MW-26	Mar 06	Mar 14	1953.45	17.44	1936.01	10-36	4.78	1.4	270.0	**210**	<0.50	<0.50
MW-27	Mar 06	Mar 14	1944.15	14.67	1929.48	10-36	4.29	2.2	15.2	**220**	0.59	<0.50
MW-28	Oct 07	Mar 14	1943.07	12.87	1930.20	15-36	1.83	2.3	66.1	0.69	<0.50	<0.50
MW-29	Oct 07	Mar 14	1932.35	13.55	1918.80	15-36	3.62	2.4	169.8	<0.50	<0.50	<0.50
MW-30	Oct 07	Mar 14	1940.59	17.14	1923.45	20-41	3.45	1.9	166.4	**42**	<0.50	<0.50
MW-31	Mar 08	Mar 14	1937.66	16.45	1921.21	13.5-33.6	2.28	2.4	92.3	**35**	<0.50	<0.50
MW-32	Mar 08	Mar 14	1952.90	18.83	1934.07	13.5-33.7	1.00	2.1	72.5	**640**	12	<0.50
MW-33	Mar 08	Mar 14	1950.98	17.66	1933.32	13.5-33.8	4.92	2.2	44.8	<0.50	<0.50	<0.50
MW-36	Jan 12	Mar 14	1955.30	19.50	1935.80	17-38	4.15	2.1	146.8	**62**	<0.50	<0.50
MW-37	Jan 12	Mar 14	1929.98	18.44	1911.54	17-38	4.64	2.3	112.6	**30**	<0.50	<0.50
MW-38	Apr 12	Mar 14	1908.38	14.65	1893.73	15-36	2.24	2.4	91.7	**7.3**	<0.50	<0.50
MW-39	Apr 12	Mar 14	1967.55	24.87	1942.68	15-36	4.92	2.1	115.7	**59**	<0.50	<0.50
MW-41	Aug 13	Mar 14	1908.89	14.55	1894.34	10-35	2.75	2.2	63.9	2.1	<0.50	<0.50
MW-42	Sep 13	Mar 14	1910.31	16.01	1894.30	10-35	1.54	2.4	40.7	<0.50	<0.50	<0.50
MW-43	Sep 13	Mar 14	1958.33	16.11	1942.22	10-35	1.60	1.9	44.6	<0.50	<0.50	<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 = milllivolts
NTU = Nephelometric Turbudity 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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-1	Aug 00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Oct 00	1991.81	17.54	1974.27	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 02	1992.04	17.90	1974.14	NM	NM	NM	NM	NM	NM	NM	2,000	ND	ND	ND
	May 03	1992.04	18.70	1973.34	NM	NM	NM	NM	NM	NM	NM	870	ND	ND	ND
	Sep 03	1992.04	18.97	1973.07	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Jan 04	1992.04	19.30	1972.74	7.0	3.5	NM	0.9	22.50	NM	NM	1,700	ND	ND	ND
	May 05	1992.04	15.24	1976.8	7.0	4.0	441.0	5.4	26.00	NM	110	3,500	ND	ND	ND
	Sep 05	1992.04	16.74	1975.3	7.1	4.2	64.0	7.0	27.50	2.7	129	1,700	ND	ND	ND
	Dec 05	1992.04	17.61	1974.43	7.0	5.1	290.0	2.0	26.90	3.2	404	820	ND	ND	ND
	Mar 06	1992.04	18.42	1973.62	NM	5.6	>999	NM	23.10	3.7	545	420	ND	ND	ND
	Jun 06	1992.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1992.04	18.30	1973.74	6.3	3.7	81.0	4.6	26.70	2.4	129	1,100	ND	ND	ND
	Dec 06	1992.04	18.88	1973.16	6.7	4.4	>999	5.1	26.90	2.8	111	1,300	ND	ND	ND
	Mar 07	1992.04	20.08	1971.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1992.04	19.81	1972.23	7.0	2.3	611.0	6.2	25.70	1.4	468	450	ND	ND	ND
	Sep 07	1992.04	18.39	1973.65	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1992.04	19.01	1973.03	6.4	3.9	15.0	5.5	22.20	2.5	223	710	ND	ND	ND
	Mar 08	1992.04	20.03	1972.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1992.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	260	ND	ND	ND
	Oct 08	1992.01	19.82	1972.19	6.6	3.7	62.4	1.1	27.10	2.4	130	460	ND	ND	ND
	Feb 09	1992.01	19.65	1972.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1992.01	19.88	1972.13	7.1	3.7	39.6	1.6	26.20	2.4	101	NS	NS	NS	NS
	Jul 09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	590	ND	ND	ND
	Sep 09	1992.01	19.90	1970.11	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1992.01	20.33	1971.68	6.3	3.4	-10.0	1.5	26.90	2.2	126	390	ND	ND	ND
	Feb 10	1992.01	20.04	1971.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1992.01	19.98	1972.03	7.0	3.3	0.0	3.2	26.13	NM	NM	400	ND	ND	ND
	Oct 10	1992.01	19.44	1972.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1992.01	19.54	1972.47	6.7	3.5	1.2	1.4	27.56	NM	212	430	ND	ND	ND
	Mar 11	1992.01	20.10	1971.91	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1992.01	20.18	1971.83	7.2	3.6	0.0	1.7	25.58	NM	259	460	ND	ND	ND
	Sep 11	1992.01	19.85	1972.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1992.01	19.65	1972.36	7.0	3.4	NM	1.3	25.97	2.2	266	410	ND	ND	ND
	Mar 12	1992.01	20.41	1971.60	7.2	3.5	5.4	1.3	25.48	2.3	-70	370	NS	NS	NS
*	Jun 12	1992.01	19.18	1972.83	7.3	3.5	15.9	3.0	25.97	2.3	90	410	ND	ND	ND
	Sep 12	1992.01	19.97	1972.04	7.6	3.6	NM	1.2	27.28	2.3	98	390	ND	ND	ND
	Nov 12	1992.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1992.01	20.35	1971.66	6.97	3.9	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	3.9	NM	1.72	25.43	2.5	78	240	<0.50	<0.50	<0.50
	Sep 13	1992.01	20.52	1971.49	7.06	3.8	NM	0.76	26.95	2.4	-14	240	<0.50	<0.50	<0.50
	Nov 13	1992.01	20.31	1971.70	5.97	3.5	2.9	0.31	25.51	2.2	166	270	<0.50	<0.50	<0.50
	Mar 14	1992.01	20.10	1971.91	7.23	3.3	28.7	1.71	24.14	2.2	1	350	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-2	Oct 00	1983.79	15.52	1968.27	NM	NM	NM	NM	NM	NM	NM	3,000	18.0	18.0	ND
	Sep 02	1983.99	16.62	1967.37	NM	NM	NM	NM	NM	NM	NM	3,000	13.0	13.0	ND
	May 03	1983.99	17.15	1966.84	NM	NM	NM	NM	NM	NM	NM	1,400	ND	ND	ND
	Sep 03	1983.97	17.70	1966.27	NM	NM	NM	NM	NM	NM	NM	1,700	ND	ND	ND
	Jan 04	1983.97	18.25	1965.72	7.1	3.1	NM	1.1	23.20	NM	NM	1,700	ND	ND	ND
	May 05	1983.97	14.65	1969.32	6.9	3.5	698.0	4.8	23.40	NM	193	2,050	17.0	9.7	ND
	Dec 05	1983.97	16.00	1967.97	6.6	4.8	360.0	2.7	25.40	3.1	264	2,900	ND	ND	ND
	Mar 06	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1983.97	17.55	1966.42	NM	3.7	728.0	7.0	24.90	2.4	116	1,600	ND	ND	ND
	Oct 06	1983.97	17.25	1966.72	6.1	3.5	20.0	5.1	24.40	2.2	161	1,900	ND	ND	ND
	Dec 06	1983.97	17.60	1966.37	6.8	4.2	28.0	4.9	24.50	2.7	241	1,300	ND	ND	ND
	Mar 07	1983.97	18.84	1965.13	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.97	19.01	1964.96	7.0	3.5	539.0	5.7	24.40	2.3	305	1,400	ND	ND	ND
	Sep 07	1983.97	17.94	1966.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.97	18.04	1965.93	6.3	3.6	144.0	6.9	21.80	2.3	314	1,000	ND	ND	ND
	Mar 08	1983.97	18.82	1965.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	900	ND	ND	ND
	Oct 08	1983.97	18.54	1965.43	6.9	3.5	44.7	3.4	24.80	2.3	103	960	3.4	1.2	ND
	Feb 09	1983.97	18.68	1965.29	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.97	18.95	1965.02	7.0	3.7	15.4	1.9	24.50	2.4	116	880	3.2	1.1	ND
	Sep 09	1983.97	18.95	1965.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.97	19.32	1964.65	5.6	3.3	280.0	1.9	24.40	2.1	155	530	2.4	ND	ND
	Feb 10	1983.97	19.68	1964.29	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.97	19.08	1964.89	7.0	3.1	14.8	3.5	24.19	NM	NM	570	2.1	0.8	ND
	Oct 10	1983.97	18.76	1965.21	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.97	18.78	1965.19	6.9	3.4	32.8	3.0	24.11	NM	92	560	2.4	0.7	ND
	Mar 11	1983.97	19.19	1964.78	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.97	19.50	1964.47	7.2	3.4	25.9	2.6	24.47	NM	273	680	2.2	0.6	ND
	Sep 11	1983.97	19.11	1964.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.97	19.08	1964.89	7.0	3.3	NM	2.7	23.55	2.1	168	610	2.1	0.66	NS
	Mar 12	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.53	19.11	1964.42	7.2	3.3	57.1	2.6	23.57	2.2	87	490	2	0.6	ND
	Sep 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.53	19.27	1964.26	7.3	3.7	36.9	2.0	24.28	2.4	83	720	2.3	0.9	<0.50
	Mar 14	1983.53	19.15	1964.38	7.3	3.1	39.2	1.6	23.05	2.0	-65	340	1.8	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-3	Oct 00	1984.19	15.95	1968.24	NM	NM	NM	NM	NM	NM	NM	98	ND	ND	ND
	Sep 02	1984.46	17.20	1967.26	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1984.46	17.70	1966.76	NM	NM	NM	NM	NM	NM	NM	6.9	ND	ND	ND
	Sep 03	1984.46	18.35	1966.08	NM	NM	NM	NM	NM	NM	NM	12	ND	ND	ND
	Jan 04	1984.46	19.25	1965.18	6.9	2.9	NM	1.0	22.40	NM	NM	6.7	ND	ND	ND
	May 05	1984.46	15.22	1969.21	7.0	2.9	NM	2.5	26.00	NM	149	ND	ND	ND	ND
	Dec 05	1984.46	16.45	1967.98	6.6	4.7	100.0	0.9	27.30	3.0	33	ND	ND	ND	ND
	Mar 06	1984.46	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1984.46	18.38	1966.05	NM	3.8	285.0	5.6	26.40	2.4	-32	ND	ND	ND	ND
	Oct 06	1984.46	17.88	1966.55	5.9	3.9	26.0	2.0	26.70	2.5	279	ND	ND	ND	ND
	Dec 06	1984.46	18.26	1966.17	6.7	4.8	272.0	2.9	26.70	3.1	9	1.2	ND	ND	ND
	Mar 07	1984.46	19.86	1964.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1984.46	20.23	1964.2	7.1	3.7	605.0	3.6	25.90	2.4	43	ND	ND	ND	ND
	Sep 07	1984.46	18.99	1965.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1984.46	18.99	1965.44	6.1	3.9	55.1	2.2	21.90	2.5	135	1.4	ND	ND	ND
	Mar 08	1984.46	19.94	1964.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1984.46	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1984.41	19.46	1964.95	6.7	3.8	44.2	0.4	27.50	2.4	99	6.5	ND	ND	ND
	Feb 09	1984.41	19.80	1964.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1984.41	20.20	1964.21	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1984.41	20.16	1964.25	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1984.41	20.48	1963.93	6.0	3.8	180.0	1.3	26.60	2.4	143	5.1	ND	ND	ND
	Feb 10	1984.41	21.07	1963.34	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1984.41	13.91	1970.50	6.8	3.5	2.2	2.0	27.36	NM	NM	NS	NS	NS	NS
	Oct 10	1984.41	19.95	1964.46	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1984.41	19.91	1964.50	6.7	3.9	12.5	0.6	27.29	NM	106	5.8	ND	ND	ND
	Mar 11	1984.41	20.47	1963.94	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1984.41	20.86	1963.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1984.41	20.45	1963.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1984.41	20.35	1964.06	6.7	4.5	NM	3.3	26.17	NM	-38	16	ND	ND	NS
	Mar 12	1984.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.81	20.43	1963.38	7.0	4.0	102.0	2.6	25.50	2.6	122	25	ND	ND	ND
	Sep 12	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1983.81	20.25	1963.56	7.2	4.3	107.0	2.0	24.79	2.8	149	11	<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 (ºC)	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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-5	Oct 00	1988.93	16.20	1972.73	NM	NM	NM	NM	NM	NM	NM	100	ND	ND	ND
	Sep 02	1989.18	17.00	1972.18	NM	NM	NM	NM	NM	NM	NM	110	ND	ND	ND
	May 03	1989.18	17.80	1971.38	NM	NM	NM	NM	NM	NM	NM	240	ND	ND	ND
	Sep 03	1989.18	18.07	1971.11	NM	NM	NM	NM	NM	NM	NM	220	ND	ND	ND
	Jan 04	1989.18	18.65	1970.53	6.7	2.6	NM	1.2	22.30	NM	NM	370	ND	ND	ND
	May 05	1989.18	14.87	1974.31	7.1	2.6	NM	4.6	25.40	NM	184	146	ND	ND	ND
	Dec 05	1989.18	16.80	1972.38	6.8	5.3	>999	1.5	26.80	3.3	377	93	ND	ND	ND
	Mar 06	1989.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.18	17.40	1971.78	NM	3.8	>999	6.9	26.60	2.4	126	220	ND	ND	ND
	Oct 06	1989.18	17.46	1971.72	6.2	3.5	21.0	4.8	26.70	2.2	99	67	ND	ND	ND
	Dec 06	1989.18	18.01	1971.17	6.8	4.5	134.0	5.4	26.50	2.9	93	130	ND	ND	ND
	Mar 07	1989.18	19.30	1969.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.18	19.12	1970.06	7.0	3.4	375.0	6.5	25.20	2.2	460	550	ND	ND	ND
	Sep 07	1989.18	17.85	1971.33	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.18	18.33	1970.85	6.3	3.8	28.3	5.7	24.40	2.4	159	170	ND	ND	ND
	Mar 08	1989.18	19.31	1969.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	400	ND	ND	ND
	Oct 08	1989.15	18.99	1970.16	6.8	3.5	21.4	4.8	27.40	2.3	119	340	2.7	1.2	ND
	Feb 09	1989.15	18.99	1970.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.15	19.17	1969.98	7.0	3.6	0.0	5.6	26.20	2.3	125	700	4.6	1.3	ND
	Sep 09	1989.15	19.14	1970.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.15	19.55	1969.6	5.8	3.2	-6.0	3.8	27.10	2.1	132	520	3.9	1.4	ND
	Feb 10	1989.15	19.57	1969.58	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.15	19.21	1969.94	7.1	3.1	7.0	6.7	25.60	NM	273	550	2.9	1.3	ND
	Oct 10	1989.15	18.67	1970.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.15	18.85	1970.30	7.0	5.4	2.0	4.7	25.64	NM	104	360	2.4	1.0	ND
	Mar 11	1989.15	19.41	1969.74	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.15	19.50	1969.65	6.9	3.5	14.0	4.9	26.58	NM	412	670	2.7	1.1	ND
	Sep 11	1989.15	19.19	1969.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.15	19.22	1969.93	6.9	4.0	NM	3.8	25.54	NM	-30	540	2.5	1.1	ND
	Mar 12	1989.15	19.74	1969.41	7.2	3.3	123.0	5.6	23.51	2.4	-38	800	NS	NS	NS
*	Jun 12	1988.69	19.25	1969.44	7.3	3.3	50.1	6.0	25.30	2.1	106	520	2.5	1.2	ND
	Sep 12	1988.69	18.25	1970.44	7.3	3.3	NM	5.3	26.25	2.2	129	340	2.2	0.95	ND
	Nov 12	1988.69	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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
	Sep 13	1988.69	19.60	1969.09	7.0	3.4	NM	4.3	26.63	2.2	167	830	3.7	1.3	<0.50
	Nov 13	1988.69	19.52	1969.17	7.8	3.6	9.7	4.1	25.37	2.3	90	690	2.8	1.2	<0.50
	Mar 14	1988.69	19.37	1969.32	7.3	3.1	18.3	5.1	24.90	2.0	-85	440	2.2	<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 (ºC)	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
	Sep 13	1988.12	20.25	1967.87	7.0	3.3	NM	3.0	29.86	2.2	90	2,500	11	11	<0.50
	Nov 13	1988.12	20.14	1967.98	7.8	3.5	16.2	3.1	25.27	2.3	97	3,100	12	3.5	<0.50
	Mar 14	1988.12	20.00	1968.12	7.2	2.9	152.0	4.8	24.30	1.9	-108	2,700	11	2.3	<0.50

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

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
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
	Sep 13	1988.72	21.40	1967.32	7.4	0.9	NM	4.4	27.20	0.6	61	58	<0.50	<0.50	<0.50
	Nov 13	1988.72	19.24	1969.48	6.9	0.6	49.3	5.0	23.81	0.4	84	3.2	<0.50	<0.50	<0.50
	Mar 14	1988.72	16.20	1972.52	7.4	0.5	62.4	4.3	26.16	0.3	87	1.2	<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
	Sep 13	1988.72	21.61	1967.11	7.4	0.7	NM	5.0	26.61	0.5	58	33	<0.50	<0.50	<0.50
	Nov 13	1988.72	18.94	1969.78	7.5	0.6	18.0	NM	23.22	0.4	24	3.3	<0.50	<0.50	<0.50
	Mar 14	1988.72	15.90	1972.82	7.3	0.5	52.3	4.4	24.76	0.3	88	1.6	<0.50	<0.50	<0.50
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
	Sep 13	1988.72	24.89	1963.83	7.2	0.6	NM	2.2	28.92	0.4	112	2.0	<0.50	<0.50	<0.50
	Nov 13	1988.72	22.16	1966.56	6.9	0.5	43.6	5.7	23.58	0.3	78	3.0	<0.50	<0.50	<0.50
	Mar 14	1988.72	16.70	1972.02	7.3	0.5	86.4	5.4	24.62	0.3	61	1.9	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-7	Sep 02	1990.28	18.27	1972.01	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1990.28	16.60	1973.68	NM	NM	NM	NM	NM	NM	NM	1.7	ND	ND	ND
	Sep 03	1990.25	16.79	1973.46	NM	NM	NM	NM	NM	NM	NM	2.0	ND	ND	ND
	Jan 04	1990.25	17.32	1972.93	7.0	2.2	NM	0.9	22.40	NM	NM	11	ND	ND	ND
	May 05	1990.25	13.86	1976.39	7.1	1.8	NM	4.0	24.80	NM	129	ND	ND	ND	ND
	Sep 05	1990.25	14.97	1975.28	7.0	4.6	140.0	6.2	26.60	3.0	144	3.3	ND	ND	ND
	Dec 05	1990.25	15.45	1974.80	6.7	5.3	5.0	1.8	23.80	3.4	472	1.2	ND	ND	ND
	Mar 06	1990.25	16.41	1973.84	4.7	6.7	428.0	NM	22.40	4.2	634	1.5	ND	ND	ND
	Jun 06	1990.25	16.50	1973.75	NM	4.1	>999	6.6	26.20	2.6	-14	2.2	ND	ND	ND
	Oct 06	1990.25	16.50	1973.75	6.2	3.7	>999	4.4	25.00	2.3	92	2.9	ND	ND	ND
	Dec 06	1990.25	16.87	1973.38	6.9	4.8	>999	5.7	25.10	3.0	65	2.1	ND	ND	ND
	Mar 07	1990.25	18.19	1972.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1990.25	18.08	1972.17	7.1	3.6	450.0	6.3	25.10	2.2	129	1.1	ND	ND	ND
	Sep 07	1990.25	16.31	1973.94	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1990.25	16.60	1973.65	6.2	4.0	0.0	2.3	22.50	2.6	161	1.3	ND	ND	ND
	Mar 08	1990.25	17.93	1972.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1990.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1990.22	17.57	1972.65	6.6	3.8	204.0	3.5	26.70	2.4	134	2.5	ND	ND	ND
	Feb 09	1990.22	17.52	1972.70	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1990.22	17.92	1972.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1990.22	18.13	1972.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1990.22	18.50	1971.72	5.8	3.4	46.0	3.2	26.70	2.2	160	7.9	ND	ND	ND
	Feb 10	1990.22	18.36	1971.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1990.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1990.22	17.54	1972.68	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1990.22	17.65	1972.57	6.9	3.7	230.8	4.9	26.17	NM	98	2.0	ND	ND	ND
	Mar 11	1990.22	18.19	1972.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1990.22	18.40	1971.82	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1990.22	18.02	1972.20	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1990.22	17.86	1972.36	7.0	3.5	NM	3.7	25.20	2.2	302	8.9	ND	ND	ND
	Mar 12	1990.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1989.78	17.78	1972.00	7.3	3.5	8.0	4.8	27.56	2.3	-42	10	ND	ND	ND
	Sep 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1990.78	18.40	1972.38	6.1	3.4	53.0	1.64	26.34	2.17	165	8.4	<0.50	<0.50	<0.50
	Mar 14	1990.78	18.12	1972.66	7.3	3.3	39.0	4.18	24.49	2.11	90	1.3	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-8	Sep 02	1994.25	18.55	1975.70	NM	NM	NM	NM	NM	NM	NM	5.4	ND	ND	ND
	May 03	1994.25	19.50	1974.75	NM	NM	NM	NM	NM	NM	NM	3.2	ND	ND	ND
	Sep 03	1994.23	19.55	1974.68	NM	NM	NM	NM	NM	NM	NM	3.7	ND	ND	ND
	Jan 04	1994.23	19.91	1974.32	7.0	2.2	NM	1.0	22.00	NM	NM	4.7	ND	ND	ND
	May 05	1994.23	15.51	1978.72	7.0	1.8	NM	3.6	27.70	NM	107	5.6	5.6	ND	ND
	Dec 05	1994.23	18.48	1975.75	6.7	4.2	>999	2.1	24.10	2.7	483	3.6	ND	ND	ND
	Mar 06	1994.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1994.23	18.89	1975.34	NM	3.7	>999	6.9	27.40	2.3	185	2.6	ND	ND	ND
	Oct 06	1994.23	19.12	1975.11	6.2	3.4	>999	5.9	26.70	2.2	108	3.4	ND	ND	ND
	Dec 06	1994.23	19.60	1974.63	6.2	3.4	>999	5.9	26.70	2.2	108	4.3	ND	ND	ND
	Mar 07	1994.23	20.56	1973.67	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1994.23	20.31	1973.92	7.1	3.5	259.0	7.3	27.30	2.3	287	2.8	ND	ND	ND
	Sep 07	1994.23	19.14	1975.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1994.23	19.81	1974.42	6.5	3.7	0.0	3.5	25.50	2.4	158	2.8	ND	ND	ND
	Mar 08	1994.23	20.61	1973.62	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1994.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1994.22	20.79	1973.43	6.8	3.5	421.0	5.2	26.90	2.2	154	3.7	ND	ND	ND
	Feb 09	1994.22	20.29	1973.93	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1994.22	20.44	1973.78	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1994.22	20.41	1973.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1994.22	20.71	1973.51	6.7	3.2	450.0	5.0	26.80	2.0	133	2.8	ND	ND	ND
	Feb 10	1994.22	20.86	1973.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1994.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1994.22	19.68	1974.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1994.22	19.94	1974.28	7.0	3.5	39.5	5.3	26.65	NM	98	4	ND	ND	ND
	Mar 11	1994.22	20.41	1973.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1994.22	20.50	1973.72	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1994.22	20.27	1973.95	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 12	1994.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1991.71	19.32	1972.39	7.4	3.2	93.1	6.6	27.55	2.1	17	3.5	ND	ND	ND
	Sep 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1991.71	20.60	1971.11	6.1	3.2	95.0	2.3	26.12	2.1	194	2.2	<0.50	<0.50	<0.50
	Mar 14	1991.71	20.45	1971.26	7.3	3.1	92.9	5.4	24.07	2.0	89	1.6	<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 (ºC)	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
	Sep 13	1992.25	20.69	1971.56	7.3	1.4	NM	2.4	27.88	0.9	-81	6.6	<0.50	<0.50	<0.50
	Nov 13	1992.25	20.53	1971.72	6.4	1.3	35.3	0.6	25.32	0.8	56	11	<0.50	<0.50	<0.50
	Mar 14	1992.25	20.36	1971.89	7.3	1.4	13.8	4.1	24.73	0.9	75	11	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-10	Sep 02	1983.81	18.51	1965.30	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1983.81	18.65	1965.16	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Sep 03	1983.81	19.45	1964.36	NM	NM	NM	NM	NM	NM	NM	15	ND	ND	ND
	Jan 04	1983.81	20.32	1963.49	7.0	3.1	NM	1.0	24.40	NM	NM	ND	ND	ND	ND
	May 05	1983.81	16.76	1967.05	6.8	3.2	25.0	1.5	28.10	NM	-253	ND	ND	ND	ND
	Sep 05	1983.81	16.95	1966.86	7.0	2.9	28.0	3.9	27.90	1.9	-239	ND	ND	ND	ND
	Dec 05	1983.81	17.64	1966.17	6.7	3.7	57.0	1.5	23.90	2.3	-140	ND	ND	ND	ND
	Mar 06	1983.81	19.25	1964.56	5.7	1.8	153.0	NM	21.30	1.2	-154	ND	ND	ND	ND
	Jun 06	1983.81	17.90	1965.91	NM	2.1	>999	3.5	28.10	1.5	-303	ND	ND	ND	ND
	Oct 06	1983.81	19.00	1964.81	6.2	1.4	86.0	1.6	27.10	0.9	-272	ND	ND	ND	ND
	Dec 06	1983.81	19.21	1964.60	6.8	3.9	144.0	3.9	26.60	2.5	-321	1	ND	ND	ND
	Mar 07	1983.81	20.84	1962.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.81	21.39	1962.42	7.0	3.5	>999	2.7	27.30	2.1	-179	ND	ND	ND	ND
	Sep 07	1983.81	20.38	1963.43	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.81	20.26	1963.55	6.9	3.6	0.0	0.6	24.50	2.3	-170	1	ND	ND	ND
	Mar 08	1983.81	21.06	1962.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1983.78	20.45	1963.33	6.8	2.9	100.0	0.0	27.70	1.9	-226	ND	ND	ND	ND
	Feb 09	1983.78	20.90	1962.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.78	21.42	1962.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1983.78	21.46	1962.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.78	21.67	1962.11	6.3	2.6	-10.0	0.2	27.40	1.6	-330	ND	ND	ND	ND
	Feb 10	1983.78	22.47	1961.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1983.78	21.23	1962.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.78	21.10	1962.68	7.1	1.0	1.0	0.1	28.00	NM	-274	ND	ND	ND	ND
	Mar 11	1983.78	21.76	1962.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.78	22.18	1961.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1983.78	21.75	1962.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.78	21.62	1962.16	6.9	1.3	NM	0.2	26.91	NM	-335	ND	ND	ND	ND
	Mar 12	1983.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.28	21.76	1961.52	7.4	3.0	11.0	1.0	27.50	2.0	-283	0.9	ND	ND	ND
	Sep 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1983.28	21.43	1961.85	7.3	3.0	76.1	4.7	27.18	1.9	-78	<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 (ºC)	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
	Sep 13	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1979.87	26.32	1953.55	7.2	3.2	13.2	0.9	24.93	2.1	-19	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-12	Sep 02	1996.59	14.90	1981.69	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1996.59	15.07	1981.52	NM	NM	NM	NM	NM	NM	NM	1.3	ND	ND	ND
	Sep 03	1996.59	15.30	1981.29	NM	NM	NM	NM	NM	NM	NM	14	ND	ND	ND
	Jan 04	1996.59	15.40	1981.19	7.0	2.2	NM	NM	22.40	NM	NM	6.1	ND	ND	ND
	May 05	1996.59	12.34	1984.25	6.8	2.6	NM	3.2	24.90	NM	219	ND	ND	ND	ND
	Sep 05	1996.59	13.45	1983.14	7.0	4.2	160.0	5.0	25.60	2.7	95	1.1	ND	ND	ND
	Dec 05	1996.59	14.20	1982.39	6.7	5.0	210.0	2.0	22.50	3.2	523	1.2	ND	ND	ND
	Mar 06	1996.59	15.00	1981.59	NM	6.7	91.0	NM	23.50	4.2	503	1.1	ND	ND	ND
	Jun 06	1996.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1996.59	14.71	1981.88	6.3	3.9	>999	3.9	26.10	2.5	112	ND	ND	ND	ND
	Dec 06	1996.59	15.05	1981.54	6.6	4.4	>999	6.2	25.30	2.8	206	1.4	ND	ND	ND
	Mar 07	1996.59	16.55	1980.04	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1996.59	16.31	1980.28	7.1	3.8	>999	3.5	25.50	2.4	-39	ND	ND	ND	ND
	Sep 07	1996.59	14.27	1982.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1996.59	15.04	1981.55	6.3	3.9	286.0	2.6	24.70	2.5	207	ND	ND	ND	ND
	Mar 08	1996.59	16.51	1980.08	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1996.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1996.48	15.73	1980.75	6.7	3.8	366.0	0.8	26.90	2.4	119	2	ND	ND	ND
	Feb 09	1996.48	15.61	1980.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1996.48	16.26	1980.22	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1996.48	16.29	1980.19	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1996.48	16.76	1979.72	6.0	3.5	370.0	1.5	27.60	2.2	54	1.2	ND	ND	ND
	Feb 10	1996.48	16.92	1979.56	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1996.48	15.58	1980.90	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1996.48	15.85	1980.63	6.8	3.6	20.4	1.6	26.18	NM	109	0.76	ND	ND	ND
	Mar 11	1996.48	16.49	1979.99	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1996.48	16.66	1979.82	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1996.48	15.93	1980.55	7.0	3.5	NM	2.0	24.82	2.3	315	0.95	ND	ND	ND
	Mar 12	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1995.95	15.37	1980.58	7.3	3.5	15.3	2.8	28.24	2.3	-18	1.2	ND	ND	ND
	Sep 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1995.95	16.66	1979.29	6.0	3.4	79.0	1.1	24.57	2.2	189	0.86	<0.50	<0.50	<0.50
	Mar 14	1995.95	16.26	1979.69	7.3	3.3	83.0	4.4	23.31	2.1	48	0.67	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-13	May 03	1984.23	17.25	1966.98	NM	NM	NM	NM	NM	NM	NM	2,100	ND	ND	ND
	Sep 03	1984.23	17.60	1966.63	NM	NM	NM	NM	NM	NM	NM	2,800	ND	ND	ND
	Jan 04	1984.23	18.00	1966.23	6.6	3.3	NM	1.1	22.20	NM	NM	2,700	ND	ND	ND
	May 05	1984.23	14.76	1969.47	7.0	2.1	>999	4.2	24.50	NM	118	5,310	ND	ND	ND
	Sep 05	1984.23	15.60	1968.63	7.1	4.0	270.0	6.9	25.40	2.5	144	2,600	ND	ND	ND
	Dec 05	1984.23	16.05	1968.18	6.7	5.0	330.0	2.2	24.90	3.2	250	3,400	ND	ND	ND
	Mar 06	1984.23	17.24	1966.99	5.5	3.6	44.0	NM	22.80	2.3	68	3,700	ND	ND	ND
	Jun 06	1984.23	17.40	1966.83	NM	3.7	425.0	7.1	24.20	2.4	120	2,900	NS	NS	NS
	Oct 06	1984.23	17.15	1967.08	6.2	3.6	50.0	3.8	24.60	2.3	169	2,800	ND	ND	ND
	Dec 06	1984.23	17.47	1966.76	6.8	4.3	94.0	4.2	24.50	2.7	330	3,200	ND	ND	ND
	Mar 07	1984.23	18.58	1965.65	6.9	3.5	308.0	9.5	24.00	2.3	514	2,500	ND	ND	ND
	Jun 07	1984.23	18.66	1965.57	7.0	3.5	0.0	6.1	23.60	2.2	411	3,700	ND	ND	ND
	Sep 07	1984.23	17.41	1966.82	6.7	3.3	3.0	4.7	27.70	2.1	228	2,000	ND	ND	ND
	Dec 07	1984.23	17.50	1966.73	6.4	3.7	19.7	6.5	21.30	2.4	282	2,500	ND	ND	ND
	Mar 08	1984.23	18.31	1965.92	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1984.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Oct 08	1984.18	18.25	1965.93	6.8	3.5	50.3	3.1	24.80	2.2	87	2,600	5.3	ND	ND
	Feb 09	1984.18	18.28	1965.90	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1984.18	18.41	1965.77	7.0	3.8	15.7	3.0	24.40	2.4	120	2,200	2.9	ND	ND
	Sep 09	1984.18	18.63	1965.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1984.18	19.05	1965.13	6.0	3.4	0.0	2.0	25.20	2.1	135	1,700	3.7	ND	ND
	Feb 10	1984.18	19.22	1964.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1984.18	18.72	1965.46	7.0	3.2	5.2	2.9	25.27	NM	NM	1,600	3.2	ND	ND
	Oct 10	1984.18	18.44	1965.74	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1984.18	18.45	1965.73	6.9	3.5	2.0	2.3	23.79	NM	90	1,900	3.9	ND	ND
	Mar 11	1984.18	18.75	1965.43	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1984.18	19.15	1965.03	7.1	3.5	4.0	2.7	24.74	NM	284	1,600	3.2	ND	ND
	Sep 11	1984.18	18.64	1965.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1984.18	18.67	1965.51	6.9	3.7	NM	1.6	23.97	2.4	113	1,700	2.4	ND	ND
	Mar 12	1984.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.31	18.45	1964.86	7.2	3.5	19.6	1.9	23.36	2.3	86	1,500	3.7	ND	ND
	Sep 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.31	18.50	1964.81	7.5	3.9	19.7	0.9	23.77	2.5	104	1,800	3.5	<0.50	<0.50
	Mar 14	1983.31	18.37	1964.94	7.2	3.2	12.2	3.6	23.95	2.1	-158	1,500	3.7	<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 (ºC)	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
	Sep 13	1987.33	19.16	1968.17	7.0	3.7	NM	2.8	26.13	2.4	91	1,400	2.5	<0.50	<0.50
	Nov 13	1987.33	18.96	1968.37	7.8	3.9	28.9	2.6	25.17	3.5	96	1,500	2.7	<0.50	<0.50
	Mar 14	1987.33	18.89	1968.44	7.3	3.0	165.0	6.0	24.70	2.1	-114	930	2.2	<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	1987.54	19.95	1967.59	7.5	1.4	NM	4.2	30.76	0.9	101	5,500	27	3.8	<0.50
	Sep 13	1987.54	19.66	1967.88	7.4	1.4	NM	2.9	35.26	0.9	82	3,700	23	1.6	<0.50
	Nov 13	1987.54	19.53	1968.01	7.8	1.4	6.3	4.0	24.38	0.9	102	10,000	38	17	<0.50
	Mar 14	1987.54	19.53	1968.01	7.3	1.1	11.3	4.4	25.36	0.7	134	7,600	32	17	<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 (ºC)	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
	Sep 13	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1982.74	16.25	1966.49	7.2	3.1	62.6	2.9	26.32	2.0	66	2.8	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-16	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Jan 04	1980.63	26.22	1954.41	7.0	2.3	NM	0.7	22.40	NM	NM	ND	ND	ND	ND
	May 05	1980.63	23.41	1957.22	7.1	2.9	NM	1.1	25.20	NM	-4	ND	ND	ND	ND
	Sep 05	1980.63	24.12	1956.51	7.0	3.4	520.0	3.5	24.60	2.3	-31	ND	ND	ND	ND
	Dec 05	1980.63	24.21	1956.42	6.7	3.8	>999	1.3	25.30	2.4	48	ND	ND	ND	ND
	Mar 06	1980.63	25.06	1955.57	5.2	5.7	199.0	NM	23.80	3.6	162	ND	ND	ND	ND
	Jun 06	1980.63	26.05	1954.58	NM	3.4	>999	5.6	27.10	2.2	-64	ND	ND	ND	ND
	Oct 06	1980.63	25.67	1954.96	6.3	3.4	32.0	2.0	24.60	2.2	-145	ND	ND	ND	ND
	Dec 06	1980.63	25.56	1955.07	6.5	3.6	271.0	2.9	24.40	1.3	-52	ND	ND	ND	ND
	Mar 07	1980.63	26.33	1954.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1980.63	27.28	1953.35	6.7	3.3	282.0	2.2	25.00	2.1	94	ND	ND	ND	ND
	Sep 07	1980.63	27.03	1953.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1980.63	26.46	1954.17	6.5	3.4	0.0	1.9	24.90	2.2	82	ND	ND	ND	ND
	Mar 08	1980.63	26.33	1954.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1980.63	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1980.61	27.19	1953.42	6.9	3.2	68.0	0.0	24.90	2.1	38	ND	2.8	ND	ND
	Feb 09	1980.61	26.52	1954.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.61	27.30	1953.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1980.61	27.86	1952.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1980.61	27.99	1952.62	5.7	3.0	100.0	0.4	26.00	1.9	-96	1.9	ND	ND	ND
	Feb 09	1980.61	28.43	1952.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1980.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1980.61	27.95	1952.66	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1980.61	27.68	1952.93	6.6	3.1	2.5	0.2	26.52	NM	140	ND	ND	ND	ND
	Mar 11	1980.61	27.49	1953.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1980.61	28.22	1952.39	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1980.61	28.36	1952.25	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1980.61	28.17	1952.44	6.9	3.5	NM	0.2	24.40	NM	-74	ND	ND	ND	ND
	Mar 12	1980.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1980.53	28.51	1952.02	7.2	2.9	NM	1.2	25.13	1.9	-23	ND	ND	ND	ND
	Sep 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1980.53	27.39	1953.14	7.3	2.8	1.8	2.5	24.61	1.8	23	<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 (ºC)	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
	Sep 13	1991.04	20.18	1970.86	7.1	3.7	NM	1.4	25.61	2.4	-86	130	<0.50	<0.50	<0.50
	Nov 13	1991.04	19.90	1971.14	6.0	3.2	1.7	0.4	24.10	2.1	154	120	<0.50	<0.50	<0.50
	Mar 14	1991.04	19.67	1971.37	7.2	3.2	2.0	2.2	23.49	2.1	47	69	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-18	May 05	1962.87	8.71	1954.16	7.1	3.9	>999	5.6	24.30	NM	139	1,600	ND	ND	ND
	Sep 05	1962.87	9.69	1953.18	7.1	4.1	3.0	6.2	26.30	2.6	88	1,700	ND	ND	ND
	Dec 05	1962.87	9.70	1953.17	6.8	4.7	NM	2.0	25.20	3.0	420	2,400	ND	ND	ND
	Mar 06	1962.87	10.21	1952.66	5.2	6.2	3.0	NM	23.30	3.9	237	1,700	NS	NS	NS
	Jun 06	1962.87	11.64	1951.23	NM	3.6	304.0	6.2	25.40	2.3	166	1,600	NS	NS	NS
	Oct 06	1962.87	11.21	1951.66	6.3	3.5	0.0	4.1	25.50	2.2	127	2,100	ND	ND	ND
	Dec 06	1962.87	10.98	1951.89	6.8	4.2	0.0	4.3	24.70	2.7	297	1,400	ND	ND	ND
	Mar 07	1962.87	11.36	1951.51	7.0	3.4	23.0	7.5	22.80	2.2	286	1,400	ND	ND	ND
	Jun 07	1962.87	12.53	1950.34	7.0	3.5	24.0	5.5	23.90	2.2	394	1,300	ND	ND	ND
	Sep 07	1962.87	12.45	1950.42	6.8	3.3	22.0	5.4	29.30	2.1	210	930	ND	ND	ND
	Dec 07	1962.87	11.54	1951.33	6.3	3.6	0.0	5.8	21.60	2.3	232	1,400	ND	ND	ND
	Mar 08	1962.87	11.15	1951.72	6.9	3.5	0.2	4.3	21.20	2.2	212	1,800	ND	ND	ND
	Jun 08	1962.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	ND	ND	ND
	Oct 08	1962.86	11.96	1950.90	5.5	3.5	14.3	7.8	25.50	2.2	196	950	3.7	ND	ND
	Feb 09	1962.86	11.48	1951.38	6.7	3.3	0.0	3.8	22.70	2.1	90	1,500	5.2	ND	ND
	Jun 09	1962.86	12.36	1950.50	7.3	3.5	20.2	3.5	23.90	2.3	131	3,500	5.1	ND	ND
	Sep 09	1962.86	13.24	1949.62	6.6	3.9	18.9	4.3	28.00	2.5	136	1,200	ND	ND	ND
	Nov 09	1962.86	13.27	1949.59	5.9	3.3	40.0	3.6	25.80	2.1	132	1,400	4.1	ND	ND
	Feb 10	1962.86	13.37	1949.49	6.9	3.3	9.0	4.0	23.30	2.1	134	1,600	4.8	ND	ND
	Jun 10	1962.86	12.90	1949.96	7.1	3.1	-0.9	8.0	25.10	NM	NM	1,100	3.5	ND	ND
	Oct 10	1962.86	13.43	1949.43	6.7	3.3	-0.7	4.4	26.19	2.2	528	1,300	3.4	ND	ND
	Nov 10	1962.86	13.20	1949.66	6.8	3.3	0.2	4.0	25.79	NM	192	1,200	3.8	ND	ND
	Mar 11	1962.86	12.43	1950.43	7.5	3.4	25.7	7.8	22.14	NM	118	1,000	2.7	ND	ND
	Jun 11	1962.86	13.32	1949.54	7.4	3.4	0.7	4.4	24.99	NM	234	1,300	2.9	ND	ND
	Sep 11	1962.86	13.61	1949.25	7.0	3.4	39.0	6.2	26.60	2.2	276	1,300	3.2	ND	ND
	Nov 11	1962.86	13.39	1949.47	7.0	3.2	NM	4.0	24.97	2.1	178	1,100	3.3	ND	ND
	Mar 12	1962.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1962.9	13.80	1949.10	7.3	3.2	6.1	4.8	25.23	2.1	115	1,300	3.4	ND	ND
	Sep 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1962.9	13.62	1949.28	6.8	3.6	8.3	3.6	25.49	2.4	152	780	<0.50	<0.50	<0.50
	Mar 14	1962.9	12.75	1950.15	7.3	3.2	58.1	4.6	19.23	2.1	247	230	<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 (ºC)	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	1980.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	520	3.2	<0.50	<0.50
	Jun 13	1980.13	27.46	1952.67	7.2	3.4	NM	4.9	28.16	2.2	119	530	3.4	<0.50	<0.50
	Sep 13	1980.13	27.94	1952.19	7.2	3.2	NM	4.7	27.22	2.1	255	840	3.2	<0.50	<0.50
	Nov 13	1980.13	27.48	1952.65	6.3	3.1	65.8	3.2	26.49	2.0	228	440	3.2	<0.50	<0.50
	Mar 14	1980.13	26.66	1953.47	7.3	3.0	72.1	3.2	24.47	2.0	160	910	3.7	<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 (ºC)	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	1967.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	710	5.2	0.74	<0.50
	Jun 13	1967.55	26.42	1941.13	7.3	3.4	NM	4.4	26.1	2.1	589	<0.50	<0.50	<0.50	<0.50
	Sep 13	1978.37	26.92	1951.45	7.0	3.9	NM	5.2	28.5	2.5	650	<0.50	<0.50	<0.50	<0.50
	Nov 13	1978.37	26.47	1951.90	4.3	4.2	20.8	4.3	25.6	2.7	579	<0.50	<0.50	<0.50	<0.50
	Mar 14	1978.37	25.62	1952.75	7.3	3.4	69.4	3.6	23.0	2.2	626	<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	1979.25	27.73	1951.52	7.3	3.0	NM	4.7	27.42	1.9	3	690	4.2	<0.50	<0.50
	Sep 13	1979.25	27.17	1952.08	7.0	3.2	NM	4.3	26.23	2.1	485	990	4.2	<0.50	<0.50
	Nov 13	1979.25	26.70	1952.55	7.3	2.4	28.1	4.7	24.24	1.7	385	620	3.5	<0.50	<0.50
	Jan 14	1979.25	25.81	1953.44	7.3	1.1	NM	4.8	23.10	0.7	274	490	2.4	<0.50	<0.50
	Feb 14	1979.25	25.83	1953.42	7.4	0.5	NM	3.7	23.68	0.4	230	210	1.1	<0.50	<0.50
	Mar 14	1979.25	25.91	1953.34	7.4	0.5	52.8	4.1	23.31	0.3	239	3.7	<0.50	<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	1979.28	27.85	1951.43	7.4	2.7	NM	2.0	26.09	1.8	607	<0.50	<0.50	<0.50	<0.50
	Sep 13	1979.28	28.50	1950.78	7.2	2.4	NM	2.6	25.10	1.6	565	<0.50	<0.50	<0.50	<0.50
	Nov 13	1979.28	27.71	1951.57	7.5	2.6	18.0	3.3	24.83	1.7	485	<0.50	<0.50	<0.50	<0.50
	Jan 14	1979.28	26.66	1952.62	7.4	2.0	NM	3.5	22.53	1.3	531	<0.50	<0.50	<0.50	<0.50
	Feb 14	1979.28	26.85	1952.43	7.4	2.1	NM	2.1	23.04	1.3	502	<0.50	<0.50	<0.50	<0.50
	Mar 14	1979.28	26.97	1952.31	7.4	2.1	28.0	4.0	23.12	1.4	509	0.53	<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	1979.32	25.53	1953.79	7.7	0.5	NM	4.0	28.15	0.3	68	0.68	<0.50	<0.50	<0.50
	Sep 13	1979.32	28.80	1950.52	6.9	3.2	NM	4.9	24.91	2.1	133	710	4.8	<0.50	<0.50
	Nov 13	1979.32	25.42	1953.90	7.6	1.0	10.3	4.1	24.27	0.7	424	160	0.75	<0.50	<0.50
	Jan 14	1979.32	24.87	1954.45	7.4	0.5	NM	4.8	22.46	0.3	368	32	<0.50	<0.50	<0.50
	Feb 14	1979.32	24.67	1954.65	7.4	0.5	NM	4.6	22.68	0.3	344	36	<0.50	<0.50	<0.50
	Mar 14	1979.32	24.72	1954.60	7.4	0.5	17.0	4.4	23.47	0.3	80	17	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-20	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,800	ND	ND	ND
	Jan 04	1979.99	25.50	1954.49	6.9	2.1	NM	1.1	22.60	NM	NM	290	2.8	ND	ND
	May 05	1979.99	22.58	1957.41	7.2	1.3	NM	5.0	23.60	NM	131	1,460	ND	ND	ND
	Dec 05	1979.99	23.55	1956.44	6.8	4.4	NM	0.8	20.50	2.8	272	1,800	ND	ND	ND
	Mar 06	1979.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1979.99	25.48	1954.51	NM	3.8	736.0	6.9	28.60	2.1	70	2,100	ND	ND	ND
	Oct 06	1979.99	25.04	1954.95	6.1	2.6	>999	4.1	23.70	1.8	234	2,000	ND	ND	ND
	Dec 06	1979.99	24.85	1955.14	6.8	4.1	284.0	4.3	23.90	2.6	245	2,500	ND	ND	ND
	Mar 07	1979.99	26.63	1953.36	6.9	3.3	999.0	9.8	23.80	2.2	530	1,500	ND	ND	ND
	Jun 07	1979.99	26.76	1953.23	7.0	3.5	>999	5.4	23.80	2.2	346	1,300	ND	ND	ND
	Sep 07	1979.99	26.30	1953.69	6.8	3.3	248.0	4.4	32.50	2.1	207	730	ND	ND	ND
	Dec 07	1979.99	25.38	1954.61	6.3	3.8	24.6	5.4	21.90	2.4	180	1,400	ND	ND	ND
	Mar 08	1979.99	25.12	1954.87	6.9	3.5	33.0	4.0	23.60	2.3	184	1,600	NS	NS	NS
	Jun 08	1979.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	ND	ND	ND
	Oct 08	1979.95	26.05	1953.90	7.3	3.5	-5.0	2.3	25.20	NM	181	1,000	3.5	ND	ND
	Feb 09	1979.95	25.57	1954.38	6.6	3.5	247.0	2.5	23.40	2.2	99	830	ND	ND	ND
	Jun 09	1979.95	26.45	1953.50	6.9	3.7	>-5.0	2.2	23.90	2.3	140	1,100	3.3	ND	ND
	Sep 09	1979.95	27.21	1952.74	6.5	4.1	386.0	2.5	25.70	2.6	146	940	ND	ND	ND
	Nov 09	1979.95	27.30	1952.65	5.8	3.4	380.0	1.9	25.30	2.2	142	640	2.2	ND	ND
	Feb 10	1979.95	27.54	1952.41	6.9	3.3	38.0	2.5	24.30	2.0	130	990	3.3	ND	ND
	Jun 10	1979.95	27.86	1952.09	7.0	3.2	1.4	3.5	24.59	NM	NM	780	2.4	ND	ND
	Oct 10	1979.95	27.35	1952.60	6.4	3.3	39.3	2.9	26.58	2.2	519	340	1.8	ND	ND
	Nov 10	1979.95	27.12	1952.83	6.6	3.4	0.9	3.0	25.50	NM	194	890	2.6	ND	ND
	Mar 11	1979.95	26.59	1953.36	6.9	3.5	49.7	3.4	25.69	NM	237	800	2.3	ND	ND
	Jun 11	1979.95	27.40	1952.55	6.8	3.5	3.1	3.5	31.92	NM	452	740	1.9	ND	ND
	Sep 11	1979.95	27.56	1952.39	6.9	3.6	20.0	3.4	26.50	2.2	182	680	1.8	ND	ND
	Nov 11	1979.95	27.35	1952.60	7.0	3.3	NM	2.8	24.35	2.2	131	800	1.9	ND	ND
	Mar 12	1979.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.82	27.62	1952.20	7.4	3.3	40.1	3.7	25.17	2.2	87	660	2.1	ND	ND
	Sep 12	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	7.2	3.7	NM	4.7	26.67	2.4	192	660	2.1	<0.50	<0.50
	Sep 13	1979.82	27.70	1952.12	7.0	3.5	NM	4.5	26.41	2.3	428	570	1.8	<0.50	<0.50
	Nov 13	1979.82	27.28	1952.54	6.1	3.4	21.8	2.5	25.53	2.2	245	530	1.4	<0.50	<0.50
	Mar 14	1979.82	26.46	1953.36	7.3	3.1	22.0	3.9	25.92	2.0	345	170	0.66	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-20D1	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	69	2.8	3.6	<0.50
	Jun 13	1978.81	26.17	1952.64	7.3	3.0	NM	5.2	27.38	2.0	115	110	<0.50	<0.50	<0.50
	Sep 13	1978.81	27.01	1951.80	7.1	3.4	NM	4.8	27.83	2.2	113	100	0.56	<0.50	<0.50
	Nov 13	1978.81	26.60	1952.21	7.1	3.3	83.3	4.5	25.16	2.2	57	260	0.86	<0.50	<0.50
	Mar 14	1978.81	25.70	1953.11	7.4	0.9	70.4	4.9	25.09	0.6	76	76	<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	1978.66	26.23	1952.43	7.4	0.8	NM	4.6	25.83	0.5	107	64	<0.50	<0.50	<0.50
	Sep 13	1978.66	26.90	1951.76	7.0	3.5	NM	4.2	27.95	2.3	114	210	0.77	<0.50	<0.50
	Nov 13	1978.66	26.92	1951.74	6.7	2.5	9.0	4.3	24.88	1.6	75	160	1.0	0.81	<0.50
	Mar 14	1978.66	26.05	1952.61	7.4	0.5	11.1	5.4	23.88	0.3	68	11	<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	1978.69	26.17	1952.52	7.1	0.5	NM	3.9	24.81	0.3	119	<0.50	<0.50	<0.50	<0.50
	Sep 13	1978.69	27.28	1951.41	7.1	3.0	NM	4.9	33.54	1.9	100	25	<0.50	0.80	<0.50
	Nov 13	1978.69	26.57	1952.12	6.9	1.4	31.9	4.0	24.89	0.9	81	62	<0.50	<0.50	<0.50
	Mar 14	1978.69	22.92	1955.77	7.4	0.5	61.1	4.8	23.65	0.3	277	7.9	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-21	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51	ND	ND	ND
	Jan 04	1979.56	24.72	1954.84	6.9	2.0	NM	1.1	22.30	NM	NM	55	ND	ND	ND
	May 05	1979.56	21.76	1957.80	7.1	2.8	NM	2.9	24.60	NM	131	30	ND	ND	ND
	Sep 05	1979.56	22.70	1956.86	7.1	4.7	39.0	4.1	25.80	2.6	109	19	2.4	1.5	ND
	Dec 05	1979.56	22.85	1956.71	6.6	4.6	>999	0.5	24.30	2.9	264	16	1.8	1.3	ND
	Mar 06	1979.56	23.46	1956.10	5.5	3.6	140.0	NM	23.00	2.3	309	43	ND	ND	ND
	Jun 06	1979.56	24.68	1954.88	NM	3.5	>999	4.7	28.50	2.3	112	32	ND	ND	ND
	Oct 06	1979.56	24.35	1955.21	6.2	3.5	>999	2.0	24.10	2.2	79	23	ND	ND	ND
	Dec 06	1979.56	24.15	1955.41	6.7	4.5	617.0	2.7	24.00	2.9	89	39	ND	ND	ND
	Mar 07	1979.56	24.87	1954.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1979.56	25.95	1953.61	7.0	3.4	>999	4.2	24.20	2.2	373	28	ND	ND	ND
	Sep 07	1979.56	25.44	1954.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1979.56	24.34	1955.22	6.2	3.7	>999	4.4	19.30	2.4	117	83	ND	ND	ND
	Mar 08	1979.56	24.19	1955.37	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1979.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1979.54	24.80	1954.74	7.2	3.4	545.0	0.0	24.50	NM	173	20	ND	ND	ND
	Feb 09	1979.54	24.73	1954.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1979.54	25.53	1954.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1979.54	26.39	1953.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1979.54	26.40	1953.14	6.0	3.4	90.0	0.9	24.90	2.2	119	11	ND	ND	ND
	Feb 10	1979.54	26.14	1953.40	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1979.54	26.32	1953.22	6.6	3.5	2.6	0.3	25.18	NM	202	13	ND	ND	ND
	Mar 11	1979.54	25.68	1953.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1979.54	26.57	1952.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1979.54	26.67	1952.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1979.54	26.47	1953.07	6.8	4.0	NM	0.2	24.75	NM	-38	13	ND	ND	ND
	Mar 12	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.25	26.77	1952.48	7.3	3.4	8.6	1.0	26.21	2.2	-127	9.4	ND	ND	ND
	Sep 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1979.25	25.58	1953.67	7.2	3.1	61.2	2.7	23.96	2.0	430	1.4	<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 (ºC)	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
	Sep 13	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1975.19	26.95	1948.24	7.3	3.3	120.0	5.0	24.37	2.2	17	0.58	<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 (ºC)	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
	Sep 13	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1962.45	17.57	1944.88	6.7	3.7	5.1	2.1	24.32	2.4	152	900	1.8	<0.50	<0.50
	Mar 14	1962.45	16.63	1945.82	7.2	3.2	46.2	2.5	18.77	2.1	226	170	0.63	<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 (ºC)	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
	Sep 13	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1960.82	14.34	1946.48	7.3	3.0	10.2	2.4	20.18	1.9	42	2.0	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-25	May 05	1960.74	16.01	1944.73	7.0	4.0	>999	4.3	23.60	NM	141	993	ND	ND	ND
	Sep 05	1960.74	17.45	1943.29	7.0	4.2	30.0	5.1	26.20	2.7	57	920	ND	ND	ND
	Dec 05	1960.74	16.85	1943.89	6.6	5.3	0.0	1.4	24.70	3.3	417	1,000	ND	ND	ND
	Mar 06	1960.74	17.30	1943.44	5.2	6.7	94.0	NM	23.60	4.2	255	970	ND	ND	ND
	Jun 06	1960.74	18.64	1942.10	NM	3.9	228.0	5.7	23.50	2.5	376	960	ND	ND	ND
	Oct 06	1960.74	18.75	1941.99	6.2	3.7	0.0	3.1	23.60	2.4	106	1,300	ND	ND	ND
	Dec 06	1960.74	18.61	1942.13	6.7	4.5	0.0	3.8	23.90	2.8	429	1,200	ND	ND	ND
	Mar 07	1960.74	17.72	1943.02	7.0	3.7	>999	7.5	23.30	2.4	258	670	ND	ND	ND
	Jun 07	1960.74	19.31	1941.43	7.0	3.7	50.0	4.5	23.00	2.4	485	960	ND	ND	ND
	Sep 07	1960.74	19.96	1940.78	6.7	3.5	15.0	3.6	27.00	2.3	195	560	ND	ND	ND
	Dec 07	1960.74	18.92	1941.82	6.3	3.9	0.0	4.8	19.40	2.5	168	780	ND	ND	ND
	Mar 08	1960.74	17.87	1942.87	6.9	3.7	11.9	2.5	24.40	2.3	170	890	ND	ND	ND
	Jun 08	1960.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	630	ND	ND	ND
	Oct 08	1960.73	19.84	1940.89	6.8	3.7	30.2	2.3	23.50	2.4	-94	730	1.5	ND	ND
	Feb 09	1960.73	18.07	1942.66	6.7	3.5	0.0	2.1	23.70	2.3	66	770	ND	ND	ND
	Jun 09	1960.73	19.35	1941.38	7.2	3.7	6.9	1.2	24.10	2.4	127	880	2.0	ND	ND
	Sep 09	1960.73	18.60	1942.13	6.5	4.2	14.2	2.5	25.90	2.7	136	770	ND	ND	ND
	Nov 09	1960.73	20.65	1940.08	5.8	3.5	66.0	2.2	24.70	2.2	140	570	1.3	ND	ND
	Feb 10	1960.73	19.81	1940.92	6.8	3.5	9.0	2.2	22.50	2.2	122	460	2.3	ND	ND
	Jun 10	1960.73	19.85	1940.88	7.0	3.3	-0.1	5.5	26.26	NM	NM	550	0.9	ND	ND
	Oct 10	1960.73	20.85	1939.88	5.9	3.5	-0.7	2.4	24.21	2.3	603	760	0.9	ND	ND
	Nov 10	1960.73	20.62	1940.11	6.7	3.5	0.5	2.8	25.16	NM	182	550	0.9	ND	ND
	Mar 11	1960.73	18.97	1941.76	7.0	3.4	0.0	4.1	20.24	NM	115	420	0.6	ND	ND
	Jun 11	1960.73	19.83	1940.90	7.3	3.6	-1.2	2.4	24.31	NM	216	700	0.8	ND	ND
	Sep 11	1960.73	20.83	1939.90	6.9	3.7	4.0	2.9	24.00	2.3	257	680	0.8	ND	ND
	Nov 11	1960.73	20.62	1940.11	7.0	3.4	NM	2.3	23.26	2.2	166	740	0.82	ND	ND
	Mar 12	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1959.29	21.06	1938.23	6.8	3.9	56.0	2.9	25.20	2.5	89	640	0.88	ND	ND
	Sep 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	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	NM	NS	NS	NS	NS
	Sep 13	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1959.29	20.87	1938.42	6.2	3.9	6.5	1.4	24.38	2.5	114	700	0.88	<0.50	<0.50
	Mar 14	1959.29	19.48	1939.81	5.9	3.3	28.3	2.7	15.90	2.1	229	340	0.61	<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 (ºC)	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
	Sep 13	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1953.45	19.02	1934.43	6.4	4.0	7.0	2.4	24.59	2.6	138	770	0.62	<0.50	<0.50
	Mar 14	1953.45	17.44	1936.01	7.3	2.2	20.3	4.8	21.08	1.4	270	210	<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 (ºC)	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
	Sep 13	1944.15	19.67	1924.48	7.2	2.0	NM	2.4	27.75	1.3	88	350	0.79	<0.50	<0.50
	Nov 13	1944.15	17.49	1926.66	7.2	4.0	7.2	1.7	24.27	2.6	120	420	0.94	<0.50	<0.50
	Mar 14	1944.15	14.67	1929.48	7.2	3.4	29.3	4.3	23.18	2.2	15	220	0.59	<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 (ºC)	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
	Sep 13	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1943.07	12.87	1930.20	7.3	3.5	20.8	1.8	22.59	2.3	66	0.69	<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 (ºC)	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
	Sep 13	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 14	1932.35	13.55	1918.80	7.3	3.6	42.3	3.6	18.53	2.4	170	<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 (ºC)	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
	Sep 13	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1940.59	19.89	1920.70	6.6	3.3	7.6	3.3	22.07	2.1	141	96	0.58	<0.50	<0.50
	Mar 14	1940.59	17.14	1923.45	7.2	2.9	3.8	3.5	21.39	1.9	166	42	<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 (ºC)	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
	Sep 13	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1937.66	18.55	1919.11	6.4	4.2	12.7	2.4	24.30	2.7	192	54	<0.50	<0.50	<0.50
	Mar 14	1937.66	16.45	1921.21	7.2	3.6	16.7	2.3	25.83	2.4	92	35	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
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
	Sep 13	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1952.90	20.68	1932.22	6.6	3.7	8.3	2.5	24.57	2.4	124	610	2.0	<0.50	<0.50
	Mar 14	1952.90	18.83	1934.07	7.3	3.3	72.5	1.0	24.26	2.1	73	640	12	<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 (ºC)	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
	Sep 13	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1950.98	19.40	1931.58	6.9	4.0	7.6	1.4	21.58	2.6	146	<0.50	<0.50	<0.50	<0.50
	Mar 14	1950.98	17.66	1933.32	7.2	3.4	68.8	4.9	18.82	2.2	45	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
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
	Sep 13	1993.88	19.36	1974.52	7.0	3.8	NM	1.6	25.41	2.5	71	440	0.78	<0.50	<0.50
	Nov 13	1993.88	19.14	1974.74	6.1	3.4	20.0	0.9	23.56	2.3	184	500	0.86	<0.50	<0.50
	Mar 14	1993.88	18.75	1975.13	7.3	3.4	10.4	3.8	22.73	2.2	81	360	0.73	<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
	Sep 13	1991.37	20.21	1971.16	7.2	3.6	NM	3.3	25.54	2.3	50	250	<0.50	<0.50	<0.50
	Nov 13	1991.37	19.93	1971.44	6.1	3.8	45.8	1.8	23.47	2.2	184	310	<0.50	<0.50	<0.50
	Mar 14	1991.37	19.72	1971.65	7.3	3.3	323	5.4	23.24	2.1	89	92	<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 (ºC)	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
	Sep 13	1955.30	21.48	1933.82	7.0	3.6	NM	1.7	24.72	2.4	131	140	<0.50	<0.50	<0.50
	Nov 13	1955.30	21.22	1934.08	7.4	3.9	9.4	1.9	23.32	2.5	126	130	<0.50	<0.50	<0.50
	Mar 14	1955.30	19.50	1935.80	7.3	3.1	53.6	4.2	24.34	2.1	147	62	<0.50	<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
	Sep 13	1929.98	19.80	1910.18	7.0	3.8	NM	4.6	21.66	2.5	215	40	<0.50	<0.50	<0.50
	Nov 13	1929.98	19.79	1910.19	6.5	4.0	7.2	4.2	21.71	2.6	335	33	<0.50	<0.50	<0.50
	Mar 14	1929.98	18.44	1911.54	7.4	3.5	33.9	4.6	23.10	2.3	113	30	<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
	Sep 13	1908.38	14.75	1893.63	6.8	3.9	NM	3.8	23.26	2.5	380	6.6	<0.50	<0.50	<0.50
	Nov 13	1908.38	14.97	1893.41	6.5	4.2	19.1	3.3	22.33	2.7	356	7.0	<0.50	<0.50	<0.50
	Mar 14	1908.38	14.65	1893.73	7.2	3.6	6.8	2.2	20.57	2.4	92	7.3	<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
	Sep 13	1967.55	26.34	1941.21	6.9	3.7	NM	2.0	26.67	2.4	122	250	0.76	<0.50	<0.50
	Nov 13	1967.55	26.01	1941.54	6.7	3.9	133	1.4	26.36	2.5	157	260	0.81	<0.50	<0.50
	Mar 14	1967.55	24.87	1942.68	7.3	3.3	120	4.9	28.81	2.1	116	59	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-40 CMT-30	Nov 12	NM	25.28	NM	7.9	3.6	NM	2.6	17.93	2.3	-68	340	1.1	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.7	<0.50	<0.50	<0.50
	Jun 13	1978.49	26.15	1952.34	7.6	3.3	NM	4.7	35.97	2.1	160	10	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.71	1951.78	7.9	2.2	NM	3.0	34.38	1.5	35	2.1	<0.50	<0.50	<0.50
	Nov 13	1978.49	26.35	1952.14	7.6	3.0	9.6	3.0	20.28	1.9	91	1.3	<0.50	<0.50	<0.50
	Mar 14	1978.49	26.52	1951.97	7.6	3.1	73.6	3.8	23.63	2.0	103	4.5	<0.50	<0.50	<0.50
MW-40 CMT-35	Nov 12	NM	25.30	NM	8.1	4.1	NM	1.9	17.84	2.7	-163	260	6.6	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	48	3.1	<0.50	<0.50
	Jun 13	NM	26.15	NM	7.3	3.3	NM	5.0	36.39	2.2	127	3.6	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.71	1951.78	7.1	2.4	NM	3.0	33.82	1.3	55	7.9	0.93	<0.50	<0.50
	Nov 13	1978.49	26.20	1952.29	6.5	2.4	4.3	1.7	23.26	1.6	88	12	2.4	<0.50	<0.50
	Mar 14	1978.49	26.47	1952.02	7.6	2.6	58.7	3.6	23.75	1.7	128	2.6	<0.50	<0.50	<0.50
MW-40 CMT-40	Nov 12	NM	25.34	NM	8.1	3.1	NM	2.0	20.43	2.0	-132	320	1.7	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	270	1.6	<0.50	<0.50
	Jun 13	NM	26.18	NM	7.5	3.2	NM	3.5	37.72	2.1	135	53	0.73	<0.50	<0.50
	Sep 13	1978.49	26.69	1951.80	7.7	2.0	NM	4.0	37.45	1.3	-39	37	0.73	<0.50	<0.50
	Nov 13	1978.49	26.19	1952.30	6.4	2.3	238.0	3.5	26.72	1.5	38	51	0.64	<0.50	<0.50
	Mar 14	1978.49	26.50	1951.99	7.6	2.7	33.8	3.2	23.34	1.8	46	27	<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 (ºC)	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	NM	25.28	NM	8.0	3.3	NM	2.1	20.47	2.1	-159	280	1.9	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	310	1.6	<0.50	<0.50
	Jun 13	NM	26.14	NM	7.7	3.1	NM	4.2	29.10	2.0	203	47	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.66	1951.83	7.2	2.2	NM	2.9	38.22	1.2	-90	110	1.3	<0.50	<0.50
	Nov 13	1978.49	26.16	1952.33	6.3	2.6	5.0	3.0	26.60	1.6	82	77	1.1	<0.50	<0.50
	Mar 14	1978.49	26.55	1951.94	7.6	2.7	67.9	4.7	26.76	1.8	57	24	<0.50	<0.50	<0.50
MW-40 CMT-50	Nov 12	NM	25.28	NM	8.2	3.4	NM	2.0	19.27	2.2	-175	300	2.5	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	280	2.4	<0.50	<0.50
	Jun 13	NM	26.14	NM	7.7	3.2	NM	5.7	29.51	2.1	165	64	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.63	1951.86	7.2	3.4	NM	5.8	29.36	2.3	243	24	<0.50	<0.50	<0.50
	Nov 13	1978.49	26.15	1952.34	6.5	2.5	12.9	1.5	25.67	1.6	29	120	1.8	<0.50	<0.50
	Mar 14	1978.49	26.49	1952.00	7.5	2.6	81.0	3.3	20.48	1.7	41	72	0.89	<0.50	<0.50
MW-40 CMT-55	Nov 12	NM	25.33	NM	8.0	2.9	NM	3.6	20.60	1.9	-55	930	4.0	1.7	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	390	4.1	1.7	<0.50
	Jun 13	NM	26.12	NM	7.5	3.1	NM	4.3	28.93	2.0	178	200	0.57	<0.50	<0.50
	Sep 13	1978.49	26.61	1951.88	7.7	3.2	NM	4.5	31.25	2.4	168	38	1.0	<0.50	<0.50
	Nov 13	1978.49	26.15	1952.34	6.2	2.3	17.2	3.1	26.89	1.4	38	110	0.86	<0.50	<0.50
	Mar 14	1978.49	26.56	1951.93	7.4	2.5	90.3	3.9	31.25	1.6	-69	130	3.1	<0.50	<0.50
MW-40 CMT-60	Nov 12	NM	25.38	NM	8.0	3.2	NM	2.6	18.85	2.1	-128	1,400	11	6.3	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	9.5	6.0	<0.50
	Jun 13	NM	26.16	NM	7.5	3.3	NM	4.9	29.49	2.1	220	1,000	5.9	3.6	<0.50
	Sep 13	1978.49	26.62	1951.87	7.6	3.4	NM	5.0	29.80	2.2	236	20	0.56	<0.50	<0.50
	Nov 13	1978.49	26.16	1952.33	5.9	1.0	619.0	1.7	22.22	0.7	-78	190	3.6	2.5	<0.50
	Mar 14	1978.49	26.54	1951.95	7.4	2.6	65.3	5.5	31.53	1.7	-84	360	6.5	2.2	<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 (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-41	Sep 13	1908.89	14.81	1894.08	6.9	3.7	NM	2.7	26.56	2.8	135	1.7	<0.50	<0.50	<0.50
	Nov 13	1908.89	15.05	1893.84	6.7	3.9	239.0	1.1	21.40	2.2	360	2.6	<0.50	<0.50	<0.50
	Mar 14	1908.89	14.55	1894.34	7.3	3.3	192.0	2.8	20.93	2.2	64	2.1	<0.50	<0.50	<0.50
MW-42	Sep 13	1910.31	16.16	1894.15	7.1	4.1	NM	3.0	24.55	2.7	66	0.53	<0.50	<0.50	<0.50
	Nov 13	1910.31	16.32	1893.99	7.0	4.3	29.4	2.1	21.41	2.8	326	0.60	<0.50	<0.50	<0.50
	Mar 14	1910.31	16.01	1894.30	7.3	3.7	73.8	1.5	20.05	2.4	41	<0.50	<0.50	<0.50	<0.50
MW-43	Sep 13	1958.33	17.14	1941.19	7.1	3.5	NM	3.1	26.33	2.2	45	<0.50	<0.50	<0.50	<0.50
	Nov 13	1958.33	16.96	1941.37	7.0	3.6	163.0	2.2	22.87	2.3	138	<0.50	<0.50	<0.50	<0.50
	Mar 14	1958.33	16.11	1942.22	7.2	3.0	109.0	1.6	22.15	1.9	45	<0.50	<0.50	<0.50	<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 = milllivolts
NTU = Nephelometric Turbudity Units

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

Maryland Square PCE Site

FIGURES

Cardno ATC

Shaping the Future

SITE LOCATION

1 inch = 1,000 feet

Note: Scale and location are approximate

N

SOURCE: Google Earth

SITE VICINITIY MAP

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

PROJECT NUMBER: 085.42620.0001	**DATE:** 12/12	**Figure 1**
APPROVED BY: ADS	**DRAWN BY:** ABK	

Cardno ATC Shaping the Future
2925 East Patrick Lane, Suite M
Las Vegas, Nevada 89120-2457
Ph: (702) 798-5750 *** Fax: (702) 798-5742

115.135° 115.13° 115.125° 115.12° 115.115°

36.125° 36.12°

S. MARYLAND PARKWAY
BOULEVARD MALL
ALGONQUIN DR.
RUBY S. THOMAS ELEMENTARY SCHOOL
COMMANCHE DRIVE
SENECA LN.
CHEROKEE LN.
MARICOPA WAY
SPENCER STREET
SPENCER STREET
GOLF COURSE
PUEBLO WAY
COCHISE LANE
GERONIMO WAY
TIOGA WAY
SOUTH EASTERN AVENUE
PACIFIC STREET
OTTAWA DRIVE
OTTAWA DRIVE
E. TWAIN AVENUE
E. TWAIN AVENUE
ORR PARK
WILLIAM E. ORR MIDDLE SCHOOL
E. KATIE AVENUE
FLAMINGO WASH

MW-35 1971.65
MW-14 1968.44
MW-7 1972.66
MW-15 1966.49
MW-14I 1968.01
MW-17 1971.37
MW-12 1979.69
MW-34 1975.13
MW-1 1971.91
MW-9 1971.89
MW-8 1971.26
MW-5 1969.32
MW-6 1968.12
MW-6D 1972.52
MW-13 1964.94
MW-2 1964.38
MW-3 1963.56
MW-10 1961.85
MW-20D 1953.11
MW-40 CMT 1951.97
MW-22 1948.24
MW-21 1953.67
MW-20 1953.36
MW-19 1953.47
MW-19D 1953.34
MW-19I 1952.75
MW-16 1953.14
MW-11 1953.55
MW-18 1950.15
MW-43 1942.22
MW-23 1945.82
MW-24 1946.48
MW-39 1942.68
MW-25 1939.81
MW-26 1936.01
MW-36 1935.80
MW-32 1934.07
MW-33 1933.32
PW-1
MW-27 1929.48
MW-28 1930.20
MW-29 1918.80
MW-31 1921.21
MW-30 1923.45
PW-2
MW-37 1911.54
MW-41 1894.34
MW-42 1894.30
MW-38 1893.73

1945 1970 1975 1965 1960 1955 1950 1940 1935 1930 1925 1920 1915 1910 1905 1900 1895

LEGEND

MW-1 GROUNDWATER MONITOR WELL
PW–1 PUMPING WELL
1962.16 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
1950 GROUNDWATER ELEVATION CONTOUR (5 FT. INTERVALS)
GROUNDWATER FLOW DIRECTION
NM NOT MEASURED OR NO SURVEY DATA

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

0 500 1000
SCALE, FT

GROUNDWATER POTENTIOMETRIC MAP
MARCH 03 - MARCH 12, 2014
MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NV

PROJECT NUMBER: 85.42620.0001		DATE: 04/21/14	FIGURE 2
APPROVED BY: AS		DRAWN BY: DHK	

Cardno ATC 7115 Amigo Street, Suite 100
Las Vegas, Nevada 89119
Ph: (702) 990-9300 *** Fax: (702) 990-9305

115.135° 115.13° 115.125° 115.12° 115.115°

36.125° 36.12°

S. MARYLAND PARKWAY
BOULEVARD MALL
RUBY S. THOMAS ELEMENTARY SCHOOL
ALGONQUIN DR.
COMMANCHE DRIVE
GOLF COURSE
PUEBLO WAY
SOUTH EASTERN AVENUE
EMERSON AVENUE
PACIFIC STREET
MARICOPA WAY
SPENCER STREET
CHEROKEE LN.
SENECA LN.
OTTAWA DRIVE
GERONIMO WAY
TIOGA WAY
E. TWAIN AVENUE
E. KATIE AVENUE
ORR PARK
WILLIAM E. ORR MIDDLE SCHOOL
FLAMINGO WASH

MW-35 92
MW-14 930
MW-17 69
MW-7 1.3
MW-15 2.8
MW-6 2,700
MW-13 1,500
MW-12 0.67
MW-34 360
MW-1 350
MW-9 11
MW-8 1.6
MW-5 440
MW-14I 7,600
MW-20 170
MW-19 910
MW-19I <0.50
MW-3 11
MW-16 <0.50
MW-2 340
MW-11 <0.50
MW-10 <0.50
MW-21 1.4
MW-22 0.58
MW-18 230
MW-23 170
MW-43 <0.50
MW-39 59
MW-24 2.0
MW-25 340
MW-26 210
MW-36 62
MW-32 640
MW-33 <0.50
MW-27 220
PW-1
MW-30 42
MW-31 35
MW-37 30
MW-41 2.1
MW-38 7.3
MW-42 <0.50
MW-28 0.69
MW-29 <0.50
PW-2

MW-40 CMT

DEPTH	PCE
30	4.5
35	2.6
40	27
45	24
50	72
55	130
60	360

WELL	PCE
MW-20D1	76
MW-20D2	11
MW-20D3	7.9

WELL	PCE
MW-19D1	3.7
MW-19D2	0.53
MW-19D3	17

WELL	PCE
MW-6D1	1.2
MW-6D2	1.6
MW-6D3	1.9

LEGEND

MW-1 GROUNDWATER MONITOR WELL
PW–1 PUMPING WELL
2500 ISOCONTOUR, µg/L
2000 ISOCONTOUR, µg/L
1500 ISOCONTOUR, µg/L
1000 ISOCONTOUR, µg/L
500 ISOCONTOUR, µg/L
100 ISOCONTOUR, µg/L (DASHED WHERE INFERRED
5 ISOCONTOUR, µg/L (DASHED WHERE INFERRED)
540 PCE, µg/L
NS NOT SAMPLED

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

0 500 1000
SCALE, FT

PCE ISOCONCENTRATION MAP
MARCH 03 - MARCH 12, 2014
MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NV

PROJECT NUMBER: 85.42620.0001		DATE: 04/24/14	FIGURE
APPROVED BY: AS		DRAWN BY: DHK	3

Cardno ATC
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

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GROUNDWATER LEVEL DATA

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

PROJECT: Maryland Square LOCATION: _____ PROJECT NUMBER: _____

DATE: 1/24/14 RECORDED BY: NBA MEASURING DEVICE: WLI tape

WEATHER CONDITIONS:

WELL ID	TIME	DEPTH TO GROUNDWATER (feet bTOC)	TOTAL DEPTH (feet bTOC)	CASING DIAMETER (inches)	PSH THICKNESS (feet)	COMMENTS
MW 19D1	841	25.81	50.73	2	NA	
19D2	849	26.66	70.25	2	NA	
19D3	844	24.87	99.50	2	NA	

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-19D1
Sample ID: MW-19D1
Date: 1/27/14

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 50.73 feet
Depth to Water: 25.81 feet 4Q13: 26.70
Constructed Screen Interval 31 feet to 51 feet
Approximate Pump Depth 41.5 Feet bgs 41 Feet btoc

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

Comments: N/A

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	1013	22.33	0.599	0.393	5.44	7.34	338.0	SL. Turbid, No odor
.5	1018	22.96	0.949	0.618	5.02	7.36	316.6	clear, No odor
.75	1023	23.08	1.119	0.733	4.84	7.34	284.7	" "
1.0	1028	23.02	1.121	0.735	4.81	7.33	276.1	" "
1.25	1033	23.10	1.120	0.735	4.80	7.33	274.0	" "

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Permanganate 0.15

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 2.2 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1037 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-19D2
Sample ID: MW-19D2
Date: 12/5/14

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 70.25 feet
Depth to Water: 26.66 feet 4Q13: 27.71
Constructed Screen Interval 60 feet to 70 feet
Approximate Pump Depth 65.5 Feet bgs 65 Feet btoc

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

Comments: NA

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~~	900	20.97	1.979	1.290	4.87	7.41	478.9	Purple, No Odor
.5	905	22.43	2.021	1.314	4.57	7.37	506.6	" "
.75	910	22.96	2.017	1.312	3.48	7.35	521.3	" "
1.0	915	22.62	2.016	1.312	3.44	7.35	528.2	" "
1.25	920	22.53	2.017	1.312	3.47	7.35	530.6	" "

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Permanganate 1.0

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.4 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — NR Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 924 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-19D3
Sample ID: MW-19D3
Date: 1/27/14

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 99.50 feet
Depth to Water: 24.87 feet 4Q13:25.42
Constructed Screen Interval 92 feet to 102 feet
Approximate Pump Depth 96.5 Feet bgs 96 Feet btoc

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

Comments: N/A

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	935	21.50	0.459	0.299	5.87	7.41	421.3	clear, No odor
.5	940	22.42	0.455	0.296	5.01	7.40	392.7	" "
.75	945	22.40	0.455	0.296	4.83	7.39	375.9	" "
1.0	950	22.51	0.454	0.295	4.80	7.39	372.4	" "
1.25	955	22.46	0.454	0.295	4.78	7.38	368.0	" "

Total Water Volume Purged: 1.75 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Permanganate 0.0

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.3 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 959 Sample Collection Time

GROUNDWATER LEVEL D/

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9305 (702) 990-9305 fax

PROJECT: Maryland Square LOCATION: 3661 South Maryland Parkway PROJECT NUMBER: 085.42620.0001

DATE: 2/19 RECORDED BY: DK MEASURING DEVICE: WLI

WEATHER CONDITIONS:

WELL ID	TIME	DEPTH TO GROUNDWATER (feet bTOC)	TOTAL DEPTH (feet bTOC)	CASING DIAMETER (inches)	PSH THICKNESS (feet)	COMMENTS
MW-19D1	857	25.83	50.08	2		
MW-19D2	840	26.85	70.27	2		
MW-19D3	849	24.67	99.49	2		
19D1	927	25.82				
19D2	910	27.76				
19D3	919	23.83				
19D1	957	25.82				
19D2	940	33.12				
19D3	949	23.18				
19D1	1027	25.84				
19D2	1010	28.77				
19D3	1019	22.28				
19D1	1057	25.96				
19D2	1040	26.10				
19D3	1049	23.82				
19D3	1050	23.82				

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NK

Well ID: MW-19D1
Sample ID: MW-19D1
Date: 2/19

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 50.68 feet
Depth to Water: 25.43 feet 4Q13: 26.70
Constructed Screen Interval 31 feet to 51 feet
Approximate Pump Depth 41.5 Feet bgs 41 Feet btoc

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

Comments: Permanganate: 0.0

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	1035	23.34	0.505	0.329	3.75	7.39	251.3	SL. Turbid, No odor
0.50	1040	23.67	0.542	0.352	3.73	7.39	230.7	clear, No odor
0.75	1045	23.67	0.545	0.355	3.71	7.38	230.5	clear, no odor
1.0	1050	23.68	0.547	0.356	3.69	7.37	230.3	clear, No odor
1.25	1055	23.66	0.547	0.357	3.69	7.37	230.2	clear, no odor

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

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.1 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — N/A Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1100 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-19D2
Sample ID: MW-19D2
Date: 2/14

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 70.27 feet
Depth to Water: 26.85 feet 4Q13: 27.71
Constructed Screen Interval 60 feet to 70 feet
Approximate Pump Depth 65.5 Feet bgs 65.0 Feet btoc

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

Comments: permanganate: 1.0

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	850	23.23	2.053	1.335	3.38	7.41	491.3	purple, no odor
0.50	855	23.99	2.064	1.341	2.17	7.39	497.9	Purple, No odor
0.75	900	23.03	2.066	1.345	2.15	7.39	501.7	Purple, no odor
1.0	905	23.03	2.067	1.347	2.12	7.38	501.7	Purple, no odor
1.25	910	23.04	2.068	1.349	2.11	7.38	501.8	Purple, no odor

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.7 PID
N/A Vacuum
922 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-19D3
Sample ID: MW-19D3
Date: 2/19

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 99.49 feet
Depth to Water: 24.67 feet 4Q13:25.42
Constructed Screen Interval 92 feet to 102 feet
Approximate Pump Depth 95.5 Feet bgs 95 Feet btoc

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

Comments: Permanganate: 0.0

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	942	22.80	0.468	0.304	4.83	7.38	391.7	Clear, No odor
0.50	947	22.65	0.465	0.302	4.64	7.40	344.7	Clear, no odor
0.75	952	22.67	0.461	0.300	4.62	7.39	344.5	Clear, no odor
1.0	957	22.67	0.461	0.300	4.60	7.39	344.4	Clear, No odor
1.25	1002	22.68	0.460	0.299	4.59	7.39	344.4	Clear, No odor

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.4 PID
N/A Vacuum
1012 Sample Collection Time

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GROUNDWATER LEVEL DATA

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9305 (702) 990-9305 fax

PROJECT: Maryland Square LOCATION: 3661 S. Maryland Parkway PROJECT NUMBER: 085.42620.0001

RECORDED BY: DK MEASURING DEVICE: WLI

WEATHER CONDITIONS:

WELL ID	DATE	TIME	DEPTH TO GROUNDWATER (feet bTOC)	TOTAL DEPTH (feet bTOC)	COMMENTS
MW-1	3/3	12.51	20.10	25.90	
MW-2	3/4	8.41	19.15	29.41	
MW-3	3/12	910	20.25	29.67	
MW-5	3/4	10.16	19.37	28.91	
MW-6	3/4	1201	20.00	28.87	
MW-6D1	3/5	1214	16.20	59.73	
MW-6D2	3/5	1223	15.90	89.01	
MW-6D3	3/5	1212	16.70	—	
MW-7	3/3	1030	18.12	29.43	
MW-8	3/3	939	20.45	30.23	
MW-9	3/3	1110	20.36	50.01	
MW-10	3/5	1042	21.43	30.12	
MW-11	3/5	950	26.32	32.40	Petr odor in casing
MW-12	3/3	850	16.26	33.24	
MW-13	3/4	929	18.37	25.07	
MW-14	3/4	11:11	18.89	29.72	
MW-14I	3/4	13 02	19.53	54.64	
MW-15	3/5	1130	16.25	27.85	
MW-16	3/5	842	27.39	34.25	
MW-17	3/3	1253	19.67	30.14	
MW-18	3/3	1043	12.75	20.36	
MW-19	3/7	1341	26.66	30.00	
MW-19I	3/12	959	25.62	54.24	
MW-19D1	3/12	1407	25.91	50.72	
MW-19D2	3/7	850	20.47	70.25	
MW-19D3	3/7	1127	24.72	101.20	24.72 24.72
MW-20	3/12	1151	26.46	32.29	
MW-20D1	3/7	1234	25.70	45.21	
MW-20D2	3/7	1132	26.05	65.62	
MW-20D3	3/12	940	22.92	94.97	
MW-21	3/12	1054	25.50	33.84	
MW-22	3/11	1224	26.45	35.06	
MW-23	3/13	1137	16.63	25.28	
MW-24	3/11	941	14.34	20.37	
MW-25	3/13	855	19.40	25.44	
MW-26	3/13	945	17.44	35.32	
MW-27	3/11	1324	14.67	35.24	

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GROUNDWATER LEVEL DATA

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9305 (702) 990-9305 fax

PROJECT: Maryland Square LOCATION: 3661 S. Maryland Parkway PROJECT NUMBER: 085.42620.0001

RECORDED BY: _____ MEASURING DEVICE: WLI

WEATHER CONDITIONS:

WELL ID	DATE	TIME	DEPTH TO GROUNDWATER (feet bTOC)	TOTAL DEPTH (feet bTOC)	COMMENTS
MW-28	3/11	854	12.87	24.46	
MW-29	3/11	810	13.55	34.69	
MW-30	3/10	1253	17.14	39.65	
MW-31	3/10	1200	16.45	33.52	
MW-32	3/11	1421	18.83	33.73	
MW-33	3/11	1036	17.66	33.50	
MW-34	3/3	1417	18.75	29.08	
MW-35	3/3	1334	19.72	27.86	
MW-36	3/10	1359	19.50	37.89	
MW-37	3/10	1059	18.44	37.00	
MW-38	3/10	1007	14.65	34.94	
MW-39	3/10	1457	24.87	37.92	
MW-40 CMT-30	3/6	850	26.52	29.75	
MW-40 CMT-35	3/6	853	26.47	35.0	
MW-40 CMT-40	3/6	855	26.50	39.98	
MW-40 CMT-45	3/6	856	26.55	44.92	
MW-40 CMT-50	3/6	858	26.49	49.90	
MW-40 CMT-55	3/6	904	26.56	54.54	
MW-40 CMT-60	3/6	902	26.54	59.55	
MW-41	3/10	916	14.55	35.26	
MW-42	3/10	930	16.01	35.24	
MW-43	3/11	1127	16.11	35.23	

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-1
Sample ID: MW-1
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 25.90 feet 4Q13: 25.91
Depth to Water: 20.10 feet 4Q13: 20.31
Constructed Screen Interval 10 feet to 30 feet
Approximate Pump Depth 23.5 Feet bgs 23 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	1304	24.24	3.327	2.163	3.14	7.33	-15.1	Clear, No odor
0.5	1309	24.12	3.337	2.169	1.73	7.24	0.8	Clear, No odor, 33.9
0.75	1314	24.14	3.333	2.169	1.71	7.23	1.3	Clear, No odor
1.0	1319	24.13	3.329	2.167	1.70	7.23	1.2	Clear, No odor, 16.8
1.25	1324	24.14	3.326	2.164	1.71	7.23	1.4	Clear, No odor, 38.7

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

Well Security: Locking cap? Y yes ___ no Replaced? ___ yes X no 1.1 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1327 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-2
Sample ID: MW-2
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.41 feet 4Q13: 29.42
Depth to Water: 19.15 feet 4Q13: 19.27
Constructed Screen Interval 10 feet to 32 feet
Approximate Pump Depth 25.2 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.
0.25	853	22.68	3.068	1.994	1.51	7.29	-59.8	Clear, No odor
0.50	858	23.03	3.074	2.001	1.54	7.30	-64.7	Clear, No odor, 82.6 NTU
0.75	905	23.02	3.069	1.996	1.57	7.28	-64.5	Clear, No odor, 63.8
1.0	910	23.04	3.070	1.995	1.54	7.28	-64.7	Clear, No odor, 51.5
1.25	915	23.05	3.070	1.995	1.59	7.28	-64.8	Clear, No odor, 37.2

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 1.1 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 920 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-3
Sample ID: MW-3
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.67 feet 4Q13: 29.70
Depth to Water: 20.25 feet 4Q13: 20.37
Constructed Screen Interval 10 feet to 31 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.
0.25	920	24.91	4.264	2.772	2.04	7.24	146.2	Sl. Turbid, No odor, Brown
0.50	925	24.79	4.274	2.778	2.03	7.23	149.0	Sl. Turbid, No odor 197 NTU
0.75	930	24.77	4.277	2.779	2.01	7.23	149.1	Sl. Turbid, No odor 187 NTU
1.0	935	24.78	4.276	2.778	2.00	7.23	149.3	Sl. Turbid, No odor 119 NTU
1.25	940	24.78	4.275	2.777	1.99	7.22	149.2	Sl. Turbid, No odor 109 NTU
1.5	945	24.79	4.275	2.776	1.99	7.22	149.2	Sl. Turbid, No odor 107 NTU

Total Water Volume Purged: 1.50 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 1.1 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 951 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-5
Sample ID: MW-5
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 28.91 feet 4Q13: 29.04
Depth to Water: 19.37 feet 4Q13: 19.52
Constructed Screen Interval 10 feet to 32 feet
Approximate Pump Depth 24.5 Feet bgs 24 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	1025	24.84	3.072	1.997	5.67	7.29	-169.3	clear no odor
0.50	1030	24.93	3.075	1.999	5.06	7.26	-83.9	clear no odor, 43.3 NTU
0.75	1035	24.91	3.076	2.001	5.07	7.25	-84.2	clear no odor, 33.0
1.0	1040	24.90	3.079	2.002	5.05	7.25	-84.4	clear no odor, 26.2
1.25	1045	24.90	3.078	2.000	5.06	7.25	-84.6	clear, no odor 19.3

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.4 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1050 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-6
Sample ID: MW-6
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 28.37 feet
Depth to Water: 20.00 feet
Constructed Screen Interval 10 feet to 32 feet
Approximate Pump Depth 24.5 Feet bgs 24 Feet btoc

4Q13: 29.10
3Q13: 20.14

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	1211	24.25	2.876	1.870	4.73	7.32	-152.0	Sl. Turbid, No odor
0.50	1216	24.42	2.879	1.874	4.75	7.25	-106.3	Sl. Turbid, No odor 731 NV
0.75	1221	24.27	2,907	1.891	4.91	7.24	-106.6	Sl. Turbid, No odor, 210
1.0	1227	24.29	2,909	1.891	4.90	7.23	-108.9	Sl. Turbid, No odor, 939
1.25	1233	24.31	2.914	1.892	4.77	7.23	-108.5	Sl. Turbid, No odor, 429
1.5	1239	24.30	2.916	1.894	4.76	7.23	-108.3	Sl. Turbid, No odor
1.75	1241	24.30	2.917	1.893	4.76	7.22	-106.3	Sl. Turbid, No odor, 152

Total Water Volume Purged: 1.75 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes X no
Bolts secured? Y yes ___ no — Replaced? ___ yes Y no
Surface Seal? Y yes ___ no — Replaced? ___ yes X no

0.1 PID
N/A Vacuum
1247 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-6D1
Sample ID: MW-6D1
Date: 3/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 59.73 feet 4Q13: 59.73
Depth to Water: 16.20 feet 4Q13: 19.24
Constructed Screen Interval 50 feet to 60 feet
Approximate Pump Depth 55.5 Feet bgs 55 Feet btoc

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

Comments: Previous inconsistent dtw readings

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	1320	26.45	0.536	0.350	4.37	7.39	83.4	Clear, No odor
0.50	1325	26.11	0.541	0.351	4.33	7.39	87.4	Clear, No odor 66.3 mV
0.75	1330	26.14	0.539	0.348	4.33	7.38	87.2	Clear, No odor 63.4 mV
1.0	1335	26.16	0.539	0.347	4.32	7.37	87.1	Clear, No odor 61.9 mV
1.25	1340	26.16	0.535	0.346	4.30	7.36	86.9	Clear, No odor 62.4 mV

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

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes N no
Bolts secured? Y yes ___ no Replaced? ___ yes N no
Surface Seal? Y yes ___ no Replaced? ___ yes N no

0.3 PID
N/A Vacuum
1342 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-6D2
Sample ID: MW-6D2
Date: 3/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 89.01 feet (4Q13: 89.02)
Depth to Water: 15.40 feet (4Q13: 18.94)
Constructed Screen Interval: 80 feet to 90 feet
Approximate Pump Depth: 85.5 Feet bgs 85 Feet btoc

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

Comments: Previous inconsistent dtw readings

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	1351	25.35	0.545	0.358	4.66	7.41	87.3	Clear, No odor
0.50	1356	24.80	0.538	0.350	4.35	7.32	88.1	Clear, No odor 53.6
0.75	1401	24.75	0.535	0.347	4.36	7.32	88.2	Clear, No odor 54.2
1.0	1406	24.75	0.534	0.346	4.36	7.33	88.4	Clear, No odor 50.1
1.25	1411	24.76	0.533	0.346	4.35	7.33	88.4	Clear, No odor 52.3

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

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.2 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — N/A Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1415 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-6D3
Sample ID: MW-6D3
Date: 3/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 110 feet 4Q13:110
Depth to Water: 16.70 feet 4Q13:22.16
Constructed Screen Interval 100 feet to 110 feet
Approximate Pump Depth 105.5 Feet bgs 10.5 Feet btoc

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

Comments: Previous inconsistent dtw readings

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	1234	24.80	0.451	0.293	5.35	7.42	46.7	Sl. Turbid, No odor
0.50	1239	24.62	0.453	0.294	5.37	7.34	60.6	Sl. Turbid, No odor 94.7 NTU
0.75	1244	24.64	0.451	0.293	5.39	7.33	60.8	Sl. Turbid, No odor 97.3 NTU
1.0	1249	24.63	0.450	0.293	5.37	7.34	61.1	Sl. Turbid, No odor 87.6
1.25	1254	24.62	0.450	0.292	5.37	7.34	61.1	Sl. Turbid, No odor 86.4

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.3 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1259 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-7
Sample ID: MW-7
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC

Casing Diameter:	2	inch		2" = 0.16 gal/lin ft.
Depth to Well Bottom:	29.43	feet	4Q13: 29.40	3" = 0.37 gal/lin ft.
Depth to Water:	18.15	feet	4Q13:18.40	4" = 0.67 gal/lin ft.
Constructed Screen Interval	10	feet to	30 feet	
Approximate Pump Depth	24.5	Feet bgs	24.00 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	1038	23.00	3.227	2.096	5.46	7.26	88.5	clear, No odor
0.50	1043	24.18	3.242	2.107	4.27	7.26	102.0	clear, No odor, 104 ntu
0.75	1048	24.36	3.244	2.108	4.18	7.25	91.7	Clear, No odor, 73.3
1.0	1053	24.47	3.246	2.109	4.17	7.25	90.5	clear, no odor, 53.1
1.25	1058	24.49	3.250	2.114	4.18	7.25	90.3	clear, No odor, 39.0

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

Well Security:
Locking cap? ___ yes X no — need cap — Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

1.1 PID
N/A Vacuum
1103 Sample Collection Time

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Shaping the future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-8
Sample ID: MW-8
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 30.23 feet — 4Q13: 30.22
Depth to Water: 20.45 feet — 4Q13: 20.60
Constructed Screen Interval: 10 feet to 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.
0.25	949	18.46	2.856	1.857	5.81	7.29	92.4	Clear, No odor
0.50	954	23.73	3.055	1.988	5.42	7.26	81.2	Clear, No odor, 274mV
0.75	959	23.79	3.055	1.988	5.42	7.27	81.6	Clear, No odor, 197mV
1.0	1004	23.80	3.055	1.989	5.43	7.26	81.7	Clear NO odor, 179
1.25	1009	23.81	3.060	1.989	5.46	7.26	81.9	Clear, No odor, 126
1.5	1014	24.07	3.061	1.990	5.41	7.25	88.7	clear, no odor, 92.9

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

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.1 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — N/A Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — ~~1016~~ Sample Collection Time
1016

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-9
Sample ID: MW-9
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 50.01 feet 4Q13: 50
Depth to Water: 20.36 feet 4Q13: 20.53
Constructed Screen Interval 48.5 feet to 50 feet
Approximate Pump Depth 49.5 Feet bgs 49 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	1125	24.01	1.314	0.842	5.27	7.37	-53.7	Slt turbid, No odor
0.50	1130	24.56	1.277	0.833	3.53	7.32	-73.2	Clear, No odor, 46.4 ntu
0.75	1135	24.39	1.333	0.868	4.08	7.32	-73.4	Clear, No odor, 27.3
1.00	1140	24.71	1.379	0.896	4.09	7.31	-74.9	Clear, No odor, 17.8
1.25	1145	24.73	1.388	0.903	4.07	7.31	-74.8	Clear, No odor, 13.79

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

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 0.1 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1149 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-10
Sample ID: MW-10
Date: 3/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 30.12 feet 1Q13: 30.19
Depth to Water: 21.43 feet 1Q13: 21.36
Constructed Screen Interval 10 feet to 30 feet
Approximate Pump Depth 26.5 Feet bgs 26 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	1051	26.95	3.054	1.962	5.01	7.35	-89.1	clear, No odor
0.50	1056	27.19	3.040	1.929	4.71	7.36	-77.6	Clear, No odor -79.4
0.75	1101	27.19	3.037	1.926	4.72	7.34	-77.7	Clear, No odor
1.0	1106	27.18	3.036	1.927	4.73	7.34	-77.8	Clear, No odor 77.6
1.25	1111	27.18	3.036	1.925	4.71	7.33	-77.8	Clear, No odor 76.1

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

Well Security:
Locking cap? R yes ___ no Replaced? ___ yes X no
Bolts secured? F yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.2 PID
N/A Vacuum
1117 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-11
Sample ID: MW-11
Date: 3/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 32.40 feet 1Q13: 32.38
Depth to Water: 26.32 feet 1Q13: 25.81
Constructed Screen Interval 13.5 feet to 33.5 feet
Approximate Pump Depth 29.5 Feet bgs 29 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	1005	24.63	3.174	2.065	1.45	7.25	-11.8	Clear, No odor
0.50	1010	24.98	3.220	2.093	0.89	7.25	-19.6	Clear, No odor 1246 NM
0.75	1015	24.95	3.236	2.103	0.93	7.25	-19.5	Clear, No odor 1257
1.0	1020	24.95	3.235	2.101	0.90	7.24	-19.3	Clear, No odor
1.25	1025	24.93	3.232	2.099	0.92	7.24	-19.4	Clear, No odor 1316

Total Water Volume Purged: 1.23 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 276 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no NM Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1030 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DE

Well ID: MW-12
Sample ID: MW-12
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 33.24 feet 4Q13: 33.25
Depth to Water: 16.26 feet 4Q13: 16.66
Constructed Screen Interval 13.5 feet to 33.5 feet
Approximate Pump Depth 29.25 Feet bgs 24.75 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	905	22.41	3.283	2.132	5.17	7.33	34.4	Clear, No odor
0.50	910	23.19	3.278	2.132	5.01	7.30	47.4	Clear, No odor, 124 NTU
0.75	915	23.30	3.255	2.135	4.44	7.29	47.6	Clear, No odor, 89
1.0	920	23.31	3.257	2.137	4.43	7.29	47.6	Clear, No odor, 82.9
1.25	925	23.31	3.290	2.135	4.42	7.29	47.7	Clear, No odor, 93.0

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes Y no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 920 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-13
Sample ID: MW-13
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 25.07 feet 4Q13: 25.12
Depth to Water: 18.31 feet 4Q13: 18.50
Constructed Screen Interval 9 feet to 29 feet
Approximate Pump Depth 22.5 Feet bgs 22 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	943	23.70	3.251	2.112	4.06	7.32	-251.2	Clear, No odor
0.50	948	23.94	3.249	2.113	3.68	7.25	-157.7	Clear, No odor, 65.4
0.75	953	23.93	3.250	2.114	3.65	7.24	-157.9	clear, no odor, 55.9
1.0	958	23.95	3.246	2.115	3.63	7.23	-157.8	Clear, Moderate, 25.6
1.25	1003	23.95	3.248	2.113	3.62	7.23	-157.8	Clear, No odor, 12.2

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

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

2.3 PID
N/A Vacuum
1009 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-14
Sample ID: MW-14
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.72 feet 4Q13: 29.85
Depth to Water: 18.39 feet 4Q13: 18.96
Constructed Screen Interval 15 feet to 40 feet
Approximate Pump Depth 24.5 Feet bgs 24 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	11:19	24.51	3.321	1.965	6.12	7.36	-87.6	Sl cloudy, no odor
0.5	11:24	24.74	3.305	2.113	5.96	7.29	-99.6	Sl. cloudy, no odor, 264 NTU
0.75	11:29	24.67	3.010	2.068	5.98	7.28	-105.1	" " 571
1.0	1134	24.72	3.008	2.075	5.97	7.31	-114.3	Sl cloudy, no odor, 411
1.25	1139	24.73	3.010	2.079	5.96	7.29	-114.2	Sl cloudy, no odor, 394
1.5	1144	24.71	3.014	2.078	5.97	7.29	-114.0	Sl cloudy, no odor, 235
1.75	1149	24.70	3.015	2.080	5.98	7.30	-114.2	Sl cloudy, no odor, 165

Total Water Volume Purged: 1.75 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.4 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1155 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-14I
Sample ID: MW-14I
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 54.64 feet 4Q13: 54.64
Depth to Water: 19.53 feet 4Q13: 19.53
Constructed Screen Interval 40 feet to 55 feet
Approximate Pump Depth 45 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	1312	25.09	1.121	0.730	5.40	7.32	148.3	Clear, No odor
0.50	1317	24.92	1.123	0.730	4.93	7.32	144.1	Clear, No odor
0.75	1323	25.14	1.125	0.731	4.68	7.31	135.6	Clear, NO odor, 17.8 NTU
1.0	1328	25.14	1.126	0.732	4.57	7.32	125.7	Clear, No odor, 10.3
1.25	1333	25.26	1.126	0.732	4.47	7.37	135.6	Clear, no odor, 10.09
1.5	1338	25.36	1.127	0.733	4.44	7.32	134.2	Clear, no odor, 11.31

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 3.4 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1345 Sample Collection Time

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GROUNDWATER COLLECTION LOG

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(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-15
Sample ID: MW-15
Date: 3/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 27.85 feet 1Q13: 28.03
Depth to Water: 16.25 feet 1Q13: 16.41
Constructed Screen Interval 15 feet to 32 feet
Approximate Pump Depth 22.5 Feet bgs 22 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	1137	26.27	3.096	2.011	2.87	7.24	34.1	Clear, No odor
0.50	1142	26.28	3.101	2.016	2.93	7.24	66.3	Clear, No odor 206 NTU
0.75	1147	26.29	3.102	2.012	2.94	7.23	66.5	Clear, No odor 206 NTU
1.0	1152	26.31	3.102	2.014	2.94	7.23	66.4	Clear, No odor 173 NTU
1.25	1157	26.32	3.101	2.012	2.93	7.22	66.2	Clear, No odor 62.6 NTU

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

Well Security:
Locking cap? ✓ yes ___ no Replaced? ___ yes ✓ no 0.2 PID
Bolts secured? ✓ yes ___ no Replaced? ___ yes ✓ no N/A Vacuum
Surface Seal? ✓ yes ___ no Replaced? ___ yes ✓ no 1203 Sample Collection Time

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GROUNDWATER COLLECTION LOG

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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-16
Sample ID: MW-16
Date: 5/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 34.25 feet 1Q13: 34.25
Depth to Water: 27.39 feet 1Q13: 26.86
Constructed Screen Interval 19 feet to 32 feet
Approximate Pump Depth 31.5 Feet bgs 31 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	~~0859~~ 0904	24.37	2.817	1.832	4.04	7.28	28.9	Clear, No odor
0.50	909	24.54	2.825	1.836	2.34	7.28	24.3	Clear, No odor 93.6
0.75	909	24.60	2.823	1.836	2.55	7.27	23.0	Clear, No odor 17.9
1.0	914	24.60	2.828	1.838	2.53	7.26	23.1	Clear, No oder 19.3
1.25	919	24.61	2.826	1.835	2.53	7.25	23.0	Clear, No oder 21.5

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/D Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 924 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-17
Sample ID: MW-17
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 30.14 feet 4Q13: 30.17
Depth to Water: 19.67 feet 4Q13:19.90
Constructed Screen Interval 15 feet to 30 feet
Approximate Pump Depth 25.5 Feet bgs 25.00 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	1214	23.11	3.195	2.078	4.32	7.33	-160.4	Clear, No odor
0.50	1219	23.42	3.203	2.082	2.24	7.24	45.7	Clear, No oder, Slight
0.75	1224	23.43	3.202	2.082	2.22	7.24	45.9	Clear, No oder
1.0	1229	23.46	3.203	2.082	2.20	7.24	46.2	Clear, No odor
1.25	1234	23.47	3.203	2.083	2.22	7.24	46.4	Clear, No oder
1.5	1239	23.49	3.202	2.080	2.24	7.24	46.5	Clear, No odor,

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

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 1.3 PID
Bolts secured? Y yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes X no 1247 Sample Collection Time

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GROUNDWATER COLLECTION LOG

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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-18
Sample ID: MW-18
Date: 3/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 20.36 feet 4Q13: 20.36
Depth to Water: 12.75 feet 4Q13:13.62
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 17.5 Feet bgs 17 Feet btoc

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

Comments: Well bottom is above screen interval

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	1054	18.92	3.166	2.059	4.55	7.20	251.2	Si. Turbid, no odor
0.50	1059	19.19	3.199	2.075	4.53	7.24	246.3	Si. Turbid, no odor 70.8 NTU
0.75	1104	19.22	3.194	2.074	4.57	7.26	246.6	Si. Turbid, no odor 69.5 NTU
1.0	1109	19.23	3.195	2.080	4.58	7.26	246.7	Si. turbid, no odor 60.7 NTU
1.25	1114	19.23	3.195	2.080	4.58	7.26	246.8	Si. Turbid, no odor 54.0 NTU
1.50	1119	19.23	3.196	2.082	4.60	7.27	246.9	Si. Turbid, no odor 58.1 NTU

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.4 PID
N/A Vacuum
1129 Sample Collection Time

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GROUNDWATER COLLECTION LOG

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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: MK

Well ID: MW-19
Sample ID: MW-19
Date: 3/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 30.00 feet 4Q13: 30.02
Depth to Water: 26.66 feet 4Q13: 27.48
Constructed Screen Interval 19 feet to 35 feet
Approximate Pump Depth 28.5 Feet bgs 28 Feet btoc

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

Comments: Well bottom above screen interval

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	1354	24.49	3.007	1.955	4.00	7.40	168.3	SL turbid, No odor 97.2 mV
0.50	1359	24.51	3.009	1.955	3.24	7.37	160.2	SL turbid, No odor 90.6 mV
0.75	1404	24.48	3.006	1.953	3.23	7.37	159.7	SL turbid, No odor 86.2 mV
1.0	1409	24.48	3.003	1.952	3.21	7.35	159.5	SL turbid, No odor 84.3 mV
1.25	1414	24.47	3.004	1.950	3.17	7.34	159.5	SL turb'd, No odor 72.1 mV

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.2 PID
N/A Vacuum
1424 Sample Collection Time

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GROUNDWATER COLLECTION LOG

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(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-19I
Sample ID: MW-19I
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 54.29 feet 4Q13: 54.23
Depth to Water: 25.62 feet 4Q13: 26.47
Constructed Screen Interval 34 feet to 54 feet
Approximate Pump Depth 40.5 Feet bgs 40 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	1009	22.74	3.354	2.180	4.55	7.25	623.7	PINK, NO odor
0.50	1014	22.95	3.357	2.181	3.70	7.25	625.6	PINK, NO odor 89.2 NTU
0.75	1019	22.96	3.357	2.181	3.67	7.25	625.4	PINK, NO odor 71.6 NTU
1.0	1024	22.96	3.359	2.183	3.66	7.25	626.2	PINK, NO odor 73.8 NTU
1.25	1029	22.97	3.361	2.183	3.64	7.25	626.2	PINK, NO odor 72.8 NTU
1.50	1034	22.97	3.360	2.185	3.63	7.25	626.3	PINK, NO odor 69.4 NTU

Total Water Volume Purged: 1.50 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.3 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — N/A Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1044 Sample Collection Time

Permanganate 3.0

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-19D1
Sample ID: MW-19D1
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 50.72 feet 4Q13: 50.74
Depth to Water: 25.91 feet 4Q13: 26.70
Constructed Screen Interval 31 feet to 51 feet
Approximate Pump Depth 41.5 Feet bgs 41 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	1420	23.20	0.465	0.303	4.37	7.40	228.1	Clear, No odor Turbid
0.50	1425	23.29	0.466	0.303	4.10	7.38	239.2	Clear, No odor 79.3 NTU
0.75	1430	23.31	0.467	0.304	4.07	7.36	239.3	Clear, no odor 66.2 NTU
1.0	1435	23.31	0.466	0.303	4.06	7.36	239.3	Clear, No odor 54.1 NTU
1.25	1440	23.31	0.465	0.302	4.05	7.36	239.4	Clear, No odor 52.8 NTU

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

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes X no 0.4 PID
Bolts secured? Y yes ___ no Replaced? ___ yes X no 0.0 Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes X no 1449 Sample Collection Time

permanganate: 0-0

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GROUNDWATER COLLECTION LOG

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Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-19D2
Sample ID: MW-19D2
Date: 3/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 70.25 feet 4Q13: 70.22
Depth to Water: 26.97 feet 4Q13: 27.71
Constructed Screen Interval 60 feet to 70 feet
Approximate Pump Depth 65.5 Feet bgs 65 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	859	22.66	2.067	1.346	6.17	7.39	459.7	Pink Purple, No odor
0.50	904	23.13	2.068	1.344	4.02	7.35	508.2	Pink, No odor 30.2 NTU
0.75	909	23.11	2.073	1.353	3.98	7.37	508.4	Pink, No odor 28.6 NTU
1.0	914	23.12	2.074	1.355	3.97	7.36	508.5	Pink, No odor 32.1 NTU
1.25	919	23.12	2.074	1.353	3.98	7.36	508.5	Pink, No odor 28.0 NTU

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

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.3 PID
0.0 Vacuum
925 Sample Collection Time

Remaining: 0.5

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
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Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-19D3
Sample ID: MW-19D3
Date: 3/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 101.86 feet — 4Q13: 102
Depth to Water: 24.72 feet — 4Q13:25.42
Constructed Screen Interval 92 feet to 102 feet
Approximate Pump Depth 97.5 Feet bgs 97 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	1138	23.39	0.460	0.299	4.57	7.37	85.1	Clear, No odor
0.50	1143	23.48	0.456	0.297	4.45	7.36	79.8	Clear No odor 31.2 NTU
0.75	1148	23.45	0.456	0.297	4.43	7.36	79.6	Clear No odor 20.5 NTU
1.0	1153	23.46	0.454	0.296	4.41	7.35	79.5	Clear No odor 19.4 NTU
1.25	1158	23.47	0.457	0.299	4.40	7.35	79.5	Clear No odor 16.8 NTU

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

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no
Bolts secured? X yes ___ no — Replaced? ___ yes X no
Surface Seal? X yes ___ no — Replaced? ___ yes X no

0.1 PID
0.0 Vacuum
1217 Sample Collection Time
Permanganate 0.0

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GROUNDWATER COLLECTION LOG

CARDNO ATC
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Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: TK

Well ID: MW-20
Sample ID: MW-20
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 32.29 feet 4Q13: 32.30
Depth to Water: 26.46 feet 4Q13: 27.28
Constructed Screen Interval 19 feet to 35 feet
Approximate Pump Depth 29.5 Feet bgs 29 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	1202	25.36	3.053	2.004	4.35	7.37	344.1	SL turbid, weak 79.4 NTU
0.5	1207	25.91	3.115	2.026	3.98	7.34	344.5	SL turbid, no odor 63.1 NTU
0.75	1212	25.92	3.117	2.029	3.96	7.32	344.7	SL turbid, no odor 62.7 NTU
1.0	1217	25.92	3.118	2.030	3.95	7.31	344.8	SL turbid, weak odor 41.3 NTU
1.25	1222	25.92	3.118	2.032	3.85	7.31	344.6	SL turbid, no odor 22.8

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

Well Security:
Locking cap? Y yes X no strewn
Bolts secured? Y yes ___ no
Surface Seal? Y yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.5 PID
N/A Vacuum
1227 Sample Collection Time

Permanganate 0.5

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Shaping the Future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: BF

Well ID: MW-20D1
Sample ID: MW-20D1
Date: 3/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 45.29 feet 4Q13: 45.27
Depth to Water: 25.70 feet 4Q13: 26.6
Constructed Screen Interval 25 feet to 45 feet
Approximate Pump Depth 36.5 Feet bgs 36 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	1252	25.10	0.857	0.558	5.12	7.42	79.2	Slightly, No odor
0.50	1257	25.00	0.920	0.594	4.95	7.38	78.9	clear, No odor
0.75	1302	25.08	0.924	0.602	4.87	7.36	76.0	Clear, No odor
1.0	1307	25.09	0.923	0.600	4.87	7.36	75.8	Clear, No odor
1.25	1312	25.09	0.921	0.599	4.86	7.35	75.7	Clear, No odor

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

Well Security:
Locking cap? A yes ____no Replaced? ____yes B no
Bolts secured? B yes ____no Replaced? ____yes B no
Surface Seal? A yes ____no Replaced? ____yes B no

0.1 PID
N/A Vacuum
1324 Sample Collection Time

Rearranged Seq 0-0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-20D2
Sample ID: MW-20D2
Date: 3/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 85.62 feet 4Q13: 65.64
Depth to Water: 26.05 feet 4Q13: 26.92
Constructed Screen Interval 55 feet to 65 feet
Approximate Pump Depth 60.5 Feet bgs 60 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	1038	23.74	0.508	0.331	5.54	7.42	61.2	Clear, no odor
0.50	1043	23.93	0.514	0.332	5.37	7.38	67.9	clear, No odor 23.5 NTU
0.75	1048	23.87	0.512	0.333	5.41	7.37	68.2	clear, No odor 15.04 NTU
1.0	1053	23.97	0.513	0.333	5.41	7.37	68.3	Clear, No odor 1.82 NTU
1.25	1058	23.98	0.514	0.334	5.42	7.36	68.3	Clear, No odor 11.11 NTU

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

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes X no 0.1 PID
Bolts secured? Y yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes X no 1115 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-20D3
Sample ID: MW-20D3
Date: 3/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 99.97 feet 4Q13: 100
Depth to Water: 27.92 feet 4Q13: 26.57
Constructed Screen Interval 90 feet to 100 feet
Approximate Pump Depth 96.5 Feet bgs 95 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	950	23.64	0.516	0.335	4.82	7.47	316.1	Clear, No odor
0.50	955	23.66	0.518	0.336	4.79	7.42	277.4	Clear, No odor 78.9 NTU
0.75	1000	23.66	0.514	0.334	4.79	7.42	277.2	Clear, No odor 69.7 NTU
1.0	1005	23.65	0.512	0.333	4.78	7.41	277.0	Clear, No odor 67.4 NTU
1.25	1010	23.65	0.512	0.331	4.78	7.41	277.1	Clear, No odor 64.1 NTU

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

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes ___ no — 0.1 PID
Bolts secured? Y yes ___ no — Replaced? ___ yes X no — NM Vacuum
Surface Seal? Y yes ___ no — Replaced? ___ yes Y no — 1320 Sample Collection Time

Permanganate: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-21
Sample ID: MW-21
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 33.84 feet 1Q13: 33.88
Depth to Water: 25.59 feet 1Q13: 25.03
Constructed Screen Interval 19 feet to 36 feet
Approximate Pump Depth 30.5 Feet bgs 30 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	1103	23.94	3.135	2.030	3.83	7.27	436.4	Sl. turbid, no odor
0.50	1108	23.93	3.105	2.015	2.70	7.25	429.9	Sl. turbid, no odor 79.8 NTU
0.75	1113	23.94	3.107	2.021	2.73	7.25	429.7	Sl. turbid, no odor 74.3 NTU
1.0	1118	23.96	3.108	2.022	2.74	7.24	429.7	Sl. turbid, no odor 67.6 NTU
1.25	1123	23.96	3.108	2.023	2.74	7.24	429.6	Sl. turbid, no odor 61.2 NTU

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.5 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1135 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: MK

Well ID: MW-22
Sample ID: MW-22
Date: 3/11

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 35.06 feet 1Q13: 35.06
Depth to Water: 26.45 feet 1Q13: 26.27
Constructed Screen Interval 15 feet to 36 feet
Approximate Pump Depth 31.5 Feet bgs 31 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	1243	23.98	3.336	2.167	5.32	7.35	-72.1	clear, No odor
0.50	1248	24.33	3.327	2.163	5.01	7.35	12.8	clear, No odor 147 NTU
0.75	1253	24.35	3.328	2.163	5.00	7.35	16.9	clear No odor 154 NTU
1.0	1259	24.36	3.331	2.164	4.98	7.34	16.8	clear, No odor 132 NTU
1.25	1303	24.36	3.331	2.165	4.97	7.34	16.8	clear, No odor 122 NTU
1.5	1308	24.37	3.333	2.166	4.97	7.33	16.9	clear, No odor 120 NTU

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

Well Security:
Locking cap? X yes ___ no
Bolts secured? X yes ___ no
Surface Seal? X yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.0 PID
N/A Vacuum
1314 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: JK

Well ID: MW-23
Sample ID: MW-23
Date: 3/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 25.26 feet 4Q13: 25.29
Depth to Water: 18.63 feet 4Q13: 17.57
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 21.5 Feet bgs 21 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	1149	18.60	3.159	2.055	3.01	7.29	222.4	clear, No odor
0.50	1154	18.73	3.165	2.057	2.58	7.26	225.7	clear, No odor 87.3 NTU
0.75	1159	18.75	3.166	2.058	2.55	7.25	225.8	clear, No odor 85.4 NTU
1.0	1204	18.76	3.164	2.056	2.54	7.24	226.0	clear, No odor 67.1 NTU
1.25	1209	18.70	3.164	2.057	2.54	7.24	226.1	clear, No odor 54.3 NTU
1.5	1214	18.77	3.164	2.057	2.53	7.24	226.1	clear, No odor 46.2 NTU

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

Well Security:
Locking cap? Y yes ___ no
Bolts secured? X yes ___ no
Surface Seal? Y yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.1 PID
N/A Vacuum
1220 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-24
Sample ID: MW-24
Date: 3/11

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 20.37 feet 1Q13: 20.37
Depth to Water: 14.34 feet 1Q13: 13.62
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 17.5 Feet bgs 17 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	953	19.98	1.649	1.05	3.14	7.36	-7.3	Clear, No odor
0.50	958	20.11	2.990	1.947	2.33	7.28	37.4	Clear, No odor 8.61
0.75	1003	20.15	2.990	1.945	2.36	7.28	42.2	Clear, No odor 12.27
1.0	1008	20.17	2.992	1.946	2.35	7.27	42.1	Clear, No odor 12.53
1.25	1013	20.17	2.993	1.946	2.34	7.27	41.9	Clear, No odor 11.92
1.5	1018	20.18	2.994	1.947	2.35	7.27	41.9	Clear, No odor 10.24

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.1 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1024 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-25
Sample ID: MW-25
Date: 3/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 25.94 feet 4Q13: 25.97
Depth to Water: 19.48 feet 4Q13: 20.87
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 23.5 Feet bgs 23 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	906	16.11	3.204	2.083	3.94	5.92	513.4	Clear, No odor
0.50	911	15.87	3.258	2.118	2.70	5.88	513.6	Clear, No odor 68.7 mV
0.75	916	15.89	3.261	2.125	2.67	5.87	229.7	Clear, No odor 56.2 mV
1.0	921	15.89	3.264	2.126	2.66	5.87	229.5	Clear, No odor 51.4 mV
1.25	926	15.90	3.266	2.129	2.66	5.88	229.5	Clear, No odor 32.9 mV
1.50	931	15.90	3.265	2.130	2.67	5.89	229.4	Clear, No odor 28.3 mV

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Cleaned meter probe after first (2) readings, DO readings seem abnormal

Well Security:
Locking cap? Y yes ___ no
Bolts secured? Y yes ___ no
Surface Seal? Y yes ___ no

Replaced? ___ yes N no
Replaced? ___ yes N no
Replaced? ___ yes N no

0.2 PID
N/A Vacuum
937 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-26
Sample ID: MW-26
Date: 3/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 35.32 feet 4Q13: 35.31
Depth to Water: 17.44 feet 4Q13: 19.02
Constructed Screen Interval 10 feet to 36 feet
Approximate Pump Depth 26.5 Feet bgs 26 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	957	21.37	3.320	2.134	4.50	7.25	264.7	Clear, No odor
0.50	1002	21.06	2.145	1.392	4.50	7.32	260.7	Clear, No odor 31.9NTU
0.75	1007	21.07	2.148	1.395	4.79	7.32	260.8	Clear, No odor 27.9NTU
1.0	1012	21.08	2.148	1.396	4.77	7.31	260.5	Clear, No odor 22.4NTU
1.25	1017	21.08	2.150	1.395	4.77	7.30	260.4	Clear, No odor 21.1NTU
1.50	1022	21.08	2.151	1.396	4.78	7.30	270.0	Clear, No odor 20.3NTU

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

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes N no 0.2 PID
Bolts secured? Y yes ___ no Replaced? ___ yes N no N/E Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes N no 1030 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-27
Sample ID: MW-27
Date: 3/14

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 35.24 feet 4Q13: 35.24
Depth to Water: 14.67 feet 4Q13: 17.49
Constructed Screen Interval 10 feet to 36 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.
0.25	1337	23.17	3.372	2.192	3.01	7.30	-25.1	Clear, No odor
0.50	1342	23.19	3.412	2.220	4.32	7.25	15.7	Clear, No odor 72.9 MV
0.75	1347	23.18	3.418	2.222	4.30	7.24	15.5	Clear, No odor 55.4 MV
1.0	1352	23.17	3.420	2.223	4.28	7.24	15.4	Clear, No odor 32.9 MV
1.25	1357	23.17	3.421	2.224	4.27	7.24	15.2	Clear, No odor 37.2 MV
1.5	1402	23.18	3.422	2.225	4.29	7.23	15.2	Clear, No odor 29.3 MV
					[illegible]	<		

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments: DTW increase 2.82" from last qtr, measured 3x's

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.4 PID
N/A Vacuum
1412 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-28
Sample ID: MW-28
Date: 3/11

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 34.46 feet 1Q13: 34.44
Depth to Water: 12.87 feet 1Q13: 12.50
Constructed Screen Interval 15 feet to 36 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.
0.25	903	22.38	3.516	2.286	1.62	7.27	63.8	clear, No odor
0.50	908	22.60	3.515	2.286	1.97	7.28	62.4	Clear, No odor 54.6 NTU
0.75	913	22.59	3.514	2.285	1.85	7.27	66.2	Clear, No odor 21.4 NTU
1.0	918	22.58	3.514	2.284	1.93	7.27	66.1	Clear, No odor 18.9 NTU
1.25	923	22.59	3.513	2.283	1.93	7.27	66.1	Clear, No odor 22.4 NTU
1.5	928	22.59	3.512	2.283	1.93	7.27	66.1	Clear, No odor 20.5 NTU

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

Well Security:
Locking cap? X yes ___ no
Bolts secured? Y yes ___ no
Surface Seal? X yes ___ no
Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes ___ no

0.3 PID
N/A Vacuum
934 Sample Collection Time

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Shaping the future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-29
Sample ID: MW-29
Date: 3/11

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 34.69 feet 1Q13: 34.71
Depth to Water: 13.55 feet 1Q13: 13.30
Constructed Screen Interval 15 feet to 36 feet
Approximate Pump Depth 26 Feet bgs 25.5 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	820	17.59	3.649	2.373	3.62	7.27	191.1	Clear, No odor
0.50	825	18.54	3.564	2.372	3.65	7.26	170.0	Clear, No odor 62.3 NTU
0.75	830	18.51	3.566	2.370	3.62	7.26	170.1	Clear, No odor 49.3 NTU
1.0	835	18.52	3.567	2.371	3.62	7.26	169.9	Clear, No odor 46.7 NTU
1.25	840	18.53	3.569	2.371	3.63	7.26	169.9	Clear, No odor 44.5 NTU
1.5	845	18.53	3.570	2.372	3.62	7.25	169.8	Clear, No odor 42.3 NTU

Total Water Volume Purged: 1.50 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments:

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes V no 0.1 PID
Bolts secured? Y yes ___ no Replaced? ___ yes Y no N/A Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes Y no 849 Sample Collection Time

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Shaping the future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-30
Sample ID: MW-30
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 39.65 feet 4Q13: 39.68
Depth to Water: 17.14 feet 4Q13: 19.89
Constructed Screen Interval 20 feet to 41 feet
Approximate Pump Depth 30-5 Feet bgs 30 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	1307	21.35	2.928	1.903	2.89	7.22	164.3	Clear, No odor
0.50	1312	21.41	2.914	1.893	3.45	7.21	166.5	Clear, No odor 6.00 NTU
0.75	1317	21.38	2.920	1.892	3.47	7.21	166.2	Clear, No odor 3.74 NTU
1.0	1322	21.38	2.922	1.893	3.47	7.21	166.3	Clear, No odor 5.31 NTU
1.25	1327	21.39	2.921	1.894	3.46	7.21	166.4	Clear, No odor 3.55 NTU
1.50	1332	21.39	2.920	1.896	3.45	7.20	166.4	Clear, No odor 3.79 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments: DTW √ 3x = 17.14

Well Security:
Locking cap? √ yes ____ no Replaced? ____ yes √ no 0.4 PID
Bolts secured? √ yes ____ no Replaced? ____ yes √ no N/A Vacuum
Surface Seal? √ yes ____ no Replaced? ____ yes √ no 1341 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-31
Sample ID: MW-31
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 33.52 feet 4Q13: 33.55
Depth to Water: 16.45 feet 4Q13: 18.55
Constructed Screen Interval 13.5 feet to 33.6 feet
Approximate Pump Depth 25.5 Feet bgs 25.0 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	1207	26.80	3.647	2.368	3.52	7.33	107.3	Clear, Neither
0.50	1212	25.79	3.634	2.361	3.29	7.26	93.1	Clear, No odor 2.22 NTU
0.75	1217	25.83	3.633	2.359	2.26	7.24	92.4	Clear, No odor 1.95 NTU
1.0	1222	25.84	3.634	2.360	2.26	7.23	92.3	Clear, No odor 1.80 NTU
1.25	1227	25.83	3.632	2.358	2.27	7.22	92.3	Clear, No odor 1.72 NTU
1.50	1232	25.83	3.631	2.356	2.28	7.22	92.3	Clear, No odor 1.67 NTU

Total Water Volume Purged: Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments: DTW ✓ 3x : 16.45

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes Y no
Surface Seal? Y yes ___ no Replaced? ___ yes Y no

0.3 PID
N/A Vacuum
1239 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-32
Sample ID: MW-32
Date: 3/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 33.73 feet 4Q13: 33.73
Depth to Water: 18.83 feet 4Q13: 20.68
Constructed Screen Interval 13.5 feet to 33.7 feet
Approximate Pump Depth 26.5 Feet bgs 26 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	1432	24.12	3.284	2.134	1.04	7.27	-25.7	Clear, No odor
0.50	1437	24.29	3.280	2.135	1.00	7.28	-51.9	Clear, No odor 102 NTU
0.75	1442	24.25	3.283	2.136	1.01	7.28	-52.3	Clear, No odor 84 NTU
1.0	1447	24.25	3.284	2.134	0.99	7.28	-52.4	Clear, No odor 68 NTU
1.25	1452	24.26	3.283	2.133	1.01	7.28	-52.5	Clear, No odor 75.7 NTU
1.50	1457	24.26	3.282	2.134	1.00	7.28	-52.5	Clear, No odor 72.5 NTU

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.3 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1505 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-33
Sample ID: MW-33
Date: 3/11

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 33.50 feet 4Q13: 33.52
Depth to Water: 17.66 feet 4Q13: 19.40
Constructed Screen Interval 13.5 feet to 33.8 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.
0.25	1047	18.84	3.350	2.179	5.01	7.27	27.3	Clear No odor
0.50	1052	18.90	3.410	2.214	4.92	7.25	44.4	Clear, No odor 55.3 NTU
0.75	1057	18.81	3.412	2.215	4.93	7.23	44.6	Clear, No odor 64.7 NTU
1.0	1102	18.82	3.412	2.216	4.92	7.22	44.6	Clear No odor 72.4 NTU
1.25	1107	18.82	3.414	2.217	4.91	7.22	44.7	Clear, No odor 67.9 NTU
1.5	1112	18.82	3.414	2.218	4.92	7.21	44.8	Clear, No odor 68.8 NTU

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

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes N no — 0.0 PID
Bolts secured? Y yes ___ no — Replaced? ___ yes N no — N/A Vacuum
Surface Seal? N yes ___ no — Replaced? ___ yes N no — 1120 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-34
Sample ID: MW-34
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 24.08 feet 4Q13: 29.07
Depth to Water: 18.75 feet 4Q13: 19.14
Constructed Screen Interval: feet to feet
Approximate Pump Depth: 24.5 Feet bgs 24 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	1428	22.09	3.394	2.207	3.74	7.25	81.5	Clear, No odor
0.50	1433	22.74	3.404	2.212	3.73	7.25	81.3	Clear, No odor, 20.6 NTU
0.75	1438	22.72	3.404	2.212	3.74	7.26	81.1	Clear, No odor
1.0	1442	22.73	3.403	2.212	3.75	7.26	80.4	Clear, No odor, 15.2
1.25	1447	22.73	3.405	2.213	3.75	7.26	80.8	Clear, No odor, 10.4

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

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

1.1 PID
N/A Vacuum
1455 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-35
Sample ID: MW-35
Date: 3/3

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 27.86 feet 4Q13: 27.87
Depth to Water: 19.72 feet 4Q13: 19.43
Constructed Screen Interval feet to feet
Approximate Pump Depth 24.5 Feet bgs 24.0 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	1343	22.44	3.072	1.999	5.01	7.36	-102.2	Sl. Turbid, no odor
0.50	1348	23.20	3.286	2.136	5.37	7.27	89.4	Sl. Turbid, no odor, Slight
0.75	1353	23.25	3.282	2.134	5.38	7.29	89.4	Sl. turbid, NO odor, Slight
1.0	1358	23.23	3.282	2.132	5.39	7.29	89.5	sl. turbid, No odor, Slight
1.25	1403	23.24	3.283	2.130	5.38	7.29	89.3	Sl. turbid, No odor, Slight

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

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes X no
Bolts secured? Y yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.3 PID
N/A Vacuum
1407 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-36
Sample ID: MW-36
Date: 3/12

Purging Equipment:
Sampling Equipment: Low Flow Bladder Pump
Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 37.88 feet
Depth to Water: 19.58 feet
Constructed Screen Interval: 17 feet to 38 feet
Approximate Pump Depth: 29.5 Feet bgs 29 Feet btoc

4Q13: 37.86
4Q13: 21.22

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	1412	25.18	3,124	2,043	4.12	7.35	153.0	clear, No odor
0.50	1417	24.37	3,131	2,052	4.23	7.29	147.2	clear, No odor 72.5 NTU
0.75	1422	24.35	3,134	2,054	4.17	7.29	146.6	Clear, No odor 63.9 NTU
1.0	1427	24.34	3,132	2,052	4.15	7.26	146.7	Clear, No odor 60.2 NTU
1.25	1432	24.34	3,131	2052	4.15	7.25	146.8	Clear No odor 53.6 NTU
1.5	1437							

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

N/A Well Volumes

Well Security:
Locking cap? X yes ___ no
Bolts secured? X yes ___ no
Surface Seal? X yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.4 PID
N/A Vacuum
1442 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Well ID: MW-37
Sample ID: MW-37
Date: 3/10

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

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

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 37.00 feet — 4Q13: 37.03
Depth to Water: 18.44 feet — 4Q13: 19.79
Constructed Screen Interval: 17 feet to 38 feet
Approximate Pump Depth: 28.5 Feet bgs — 28 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	1108	23.13	3.474	2.259	4.53	7.41	144.6	Clear, No odor
0.50	1113	23.06	3.490	2.270	4.65	7.39	113.0	Clear, No odor 52.1 NTU
0.75	1118	23.09	3.494	2.272	4.67	7.37	112.8	Clear, No odor 50.2
1.0	1123	23.10	3.492	2.273	4.65	7.36	112.7	Clear, No odor 39.4
1.25	1128	23.10	3.491	2.275	4.65	7.36	112.6	Clear, No odor 37.6
1.50	1133	23.10	3.491	2.275	4.64	7.36	112.6	Clear, No odor 33.9

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments: DTW 3x same reading. 18.44

Well Security:
Locking cap? X yes ___ no
Bolts secured? X yes ___ no
Surface Seal? X yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.7 PID
N/A Vacuum
1142 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: MK

Well ID: MW-38
Sample ID: MW-38
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 34.94 feet 4Q13: 34.93
Depth to Water: 14.65 feet 4Q13: 14.97
Constructed Screen Interval 15 feet to 36 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.
0.25	1014	20.17	3.610	2.348	4.30	7.25	83.6	Clear, No odor
0.50	1024	20.54	3.618	2.351	2.21	7.25	92.1	Clear, No odor 32.3
0.75	1029	20.56	3.620	2.353	2.23	7.25	91.8	Clear, No odor 14.25
1.0	1034	20.57	3.623	2.355	2.24	7.24	91.7	Clear, No odor 12.14
1.25	1039	20.57	3.622	2.352	2.24	7.24	91.7	Clear, No odor 6.80

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

Well Security:
Locking cap? X yes ___ no
Bolts secured? X yes ___ no
Surface Seal? ___ yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.3 PID
N/A Vacuum
1047 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-39
Sample ID: MW-39
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 37.92 feet 4Q13: 37.95
Depth to Water: 24.67 feet 4Q13: 26.01
Constructed Screen Interval 15 feet to 36 feet
Approximate Pump Depth 34.5 Feet bgs 31 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	1506	28.86	3.228	2.098	4.24	7.40	122.3	SL turbid No odor
0.50	1511	28.80	3.277	2.130	4.91	7.35	118.3	clear, No odor 173 mV
0.75	1516	28.82	3.271	2.128	4.93	7.32	116.1	clear, no odor 156 mV
1.0	1521	28.81	3.270	2.129	4.93	7.33	115.9	clear, NO odor 132 mV
1.25	1526	28.81	3.270	2.128	4.92	7.33	115.7	clear, NO odor, 120 mV

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

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.3 PID
N/A Vacuum
1532 Sample Collection Time

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Shaping the future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-40 CMT 30
Sample ID: MW-40 CMT 30
Date: 3/6

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 29.73 feet — 4Q13: 29.73
Depth to Water: 26.52 feet — 4Q13: 26.35
Constructed Screen Interval: 30 feet to 30.6 feet
Approximate Pump Depth: 30.5 Feet bgs — 30.35 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.
—	948	23.40	3.058	1.989	3.94	7.65	104.3	Clear, No odor
—	953	23.57	3.060	1.987	3.72	7.63	103.1	Clear, No odor 87.9mV
—	958	23.56	3.066	1.993	3.77	7.63	103.0	Clear, No odor 70.4mV
—	1003	23.60	3.070	1.995	3.73	7.63	102.7	Clear, no odor 72.6mV
~	1008	23.63	3.074	1.998	3.76	7.63	102.5	Clear, no odor 73.6mV

Total Water Volume Purged: 1 Gallons = L — N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes — no
Bolts secured? X yes — no
Surface Seal? X yes — no

Replaced? ____ yes X no
Replaced? ____ yes X no
Replaced? ____ yes X no

0.0 PID
N/A Vacuum
1012 Sample Collection Time

Permanganate: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-40 CMT 35
Sample ID: MW-40 CMT 35
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 35 feet 4Q13: 34.97
Depth to Water: 26.47 feet 4Q13: 26.20
Constructed Screen Interval 35 feet to 35.6 feet
Approximate Pump Depth 35.75 Feet bgs 35.75 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.
—	1048	23.39	2.588	1.682	4.86	7.65	160.0	Clear, No odor
—	1053	23.73	2.605	1.693	3.64	7.61	128.0	Clear, No odor 67.3NTU
—	1058	23.75	2.611	1.699	3.58	7.59	127.8	Clear, No odor 61.4NTU
—	1103	23.75	2.616	1.701	3.56	7.59	127.5	Clear, No odor 58.7NTU

Total Water Volume Purged: MW 1 L Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ____ no
Bolts secured? X yes ____ no
Surface Seal? X yes ____ no

Replaced? ____ yes X no
Replaced? ____ yes X no
Replaced? ____ yes X no

0.1 PID
N/A Vacuum
1105 Sample Collection Time
Permanganate; D.O

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-40 CMT 40
Sample ID: MW-40 CMT 40
Date: 3/12

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 39.98 feet 4Q13: 39.95
Depth to Water: 26.50 feet 4Q13: 26.19
Constructed Screen Interval 40 feet to 40.6 feet
Approximate Pump Depth 40.73 Feet bgs 40.25 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.
—	1123	23.22	2.729	1.774	3.28	7.58	44.2	Clear, No odor
—	1128	23.24	2.730	1.774	3.26	7.58	46.0	Clear, No odor 67.3 NTU
—	1133	23.30	2.728	1.772	3.29	7.59	45.8	Clear, No odor 37.9 NTU
—	1138	23.32	2.731	1.775	3.25	7.59	45.6	Clear, No odor 35.6 NTU
—	1143	23.34	2.732	1.777	3.22	7.59	45.8	Clear, No odor 33.8 NTU

Total Water Volume Purged: 1 L Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no
Bolts secured? X yes ___ no
Surface Seal? X yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.0 PID
N/A Vacuum
1159 Sample Collection Time

Permanganate, 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-40 CMT 45
Sample ID: MW-40 CMT 45
Date: 3/6

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 44.92 feet 4Q13: 44.91
Depth to Water: 26.55 feet 4Q13: 26.16
Constructed Screen Interval 45 feet to 45.6 feet
Approximate Pump Depth 45.25 Feet bgs 44.75 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.
	1219	26.51	2.722	1.770	4.62	7.61	56.4	Sl. Turbid, No odor
	1224	26.60	2.724	1.771	4.70	7.60	56.3	Sl. Turbid, No odor 84.8 NTU
	1229	26.83	2.737	1.779	4.74	7.59	56.8	Clear, No odor 80.7 NTU
	1234	26.74	2.739	1.781	4.71	7.58	56.8	Clear, No odor 73.7 NTU
	1239	26.76	2.742	1.782	4.67	7.57	56.9	Clear, No odor 67.9 NTU

Total Water Volume Purged: 1 L Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? Y yes ____ no Replaced? ____ yes Y no
Bolts secured? Y yes ____ no Replaced? ____ yes Y no
Surface Seal? Y yes ____ no Replaced? ____ yes Y no

0.3 PID
N/A Vacuum
1245 Sample Collection Time
permanent 0.6

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-40 CMT 50
Sample ID: MW-40 CMT 50
Date: 3/6

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 49.90 feet 4Q13: 49.85
Depth to Water: 26.49 feet 4Q13: 26.15
Constructed Screen Interval 50 feet to 50.6 feet
Approximate Pump Depth ____ Feet bgs 49.30 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.
	1527	26.34	2.619	1.701	3.93	7.50	50.8	clear No odor
	1532	26.40	2.623	1.702	3.66	7.49	42.8	clear, No odor Vented
	1537	26.42	2.620	1.705	3.43	7.50	41.6	clear No odor 80 mV
	1542	20.45	2.621	1.703	3.58	7.48	41.3	Clear, No odor 73 mV
	1547	20.48	2.623	1.704	3.34	7.46	40.7	Clear, No odor 81 mV

Total Water Volume Purged: 1 ~~Gallons~~ L = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ____ no
Bolts secured? X yes ____ no
Surface Seal? X yes ____ no

Replaced? ____ yes X no
Replaced? ____ yes X no
Replaced? ____ yes X no

0.0 PID
N/R Vacuum
1550 Sample Collection Time
Pump purge: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-40 CMT 55
Sample ID: MW-40 CMT 55
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 54.89 feet 4Q13: 54.79
Depth to Water: 26.56 feet 4Q13: 26.15
Constructed Screen Interval 55 feet to 55.6 feet
Approximate Pump Depth ____ Feet bgs 54.78 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.
	1342	29.98	2.521	1.639	2.20	7.34	-85.2	Clear, no odor 77.3 NTU
	1347	31.12	2.526	1.642	4.01	7.33	-79.3	Clear, no odor 73.3 NTU
	1352	31.14	2.530	1.644	3.97	7.34	-79.0	Clear, no odor 99.2 NTU
	1357	31.22	2.531	1.645	3.97	7.35	-69.3	Clear, no odor 84.6
	1402	31.25	2.530	1.644	3.94	7.36	-69.0	Clear, no odor 90.3

Total Water Volume Purged: 1 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ____ no
Bolts secured? X yes ____ no
Surface Seal? X yes ____ no

Replaced? ____ yes X no
Replaced? ____ yes X no
Replaced? ____ yes X no

0.1 PID
N/A Vacuum
1412 Sample Collection Time
Permanganate, 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DF

Well ID: MW-40 CMT 60
Sample ID: MW-40 CMT 60
Date: 3/6

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 59.85 feet 4Q13: 59.82
Depth to Water: 26.54 feet 4Q13: 26.16
Constructed Screen Interval 60 feet to 60.6 feet
Approximate Pump Depth ____ Feet bgs 59.79 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.
		31.37	2.587	1.681	5.67	7.35	-79.2	Clear, No odor [illegible]
		31.43	2.589	1.684	5.61	7.38	-83.4	Clear, No odor 158mV
		31.51	2.594	1.684	5.54	7.37	-83.4	Clear, No odor 74mV
		31.54	2.594	1.686	5.51	7.36	-83.7	Clear, No Odor 62mV
		31.53	2.599	1.690	5.53	7.38	-83.5	Clear, No odor 105mV

Total Water Volume Purged: 1 ~~Gallons~~ L = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

0.0 PID
N/A Vacuum
1320 Sample Collection Time

Permanganate: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-41
Sample ID: MW-41
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 35.26 feet 4Q13: 35.27
Depth to Water: 14.55 feet 4Q13: 15.05
Constructed Screen Interval 10 feet to 35 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.
0.25	927	19.51	3.296	2.143	4.01	7.27	63.2	Clear, No odor
0.5	932	20.39	3.339	2.170	2.79	7.24	64.3	Clear, No odor 227 MV
0.75	937	20.92	3.343	2.173	2.77	7.24	64.1	Clear, No odor 207 MV
1.0	942	20.92	3.342	2.173	2.75	7.25	64.1	Clear, No odor 238 MV
1.25	947	20.93	3.344	2.173	2.74	7.25	63.9	Clear, No odor 205 MV
1.50	952	20.93	3.345	2.174	2.75	7.25	63.9	Clear, No odor 192 MV

Total Water Volume Purged: 1.50 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no
Bolts secured? X yes ___ no
Surface Seal? X yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes X no

0.5 PID
N/A Vacuum
952 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-42
Sample ID: MW-42
Date: 3/10

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 35.24 feet 4Q13: 35.23
Depth to Water: 16.01 feet 4Q13: 16.32
Constructed Screen Interval 10 feet to 35 feet
Approximate Pump Depth 26.5 Feet bgs 26 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	838	20.19	3.710	2.412	2.21	7.26	51.8	Sl. turbid, No odor
0.50	843	20.10	3.714	2.412	1.54	7.27	41.0	Clear, No odor 98.5 mV
0.75	848	20.06	3.712	2.411	1.52	7.27	40.8	Clear, No odor 79.8 mV
1.0	853	20.05	3.714	2.412	1.53	7.28	40.7	Clear, No odor 75.2 mV
1.25	858	20.05	3.715	2.414	1.54	7.28	40.7	Clear, No odor 73.8 mV

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

Well Security:
Locking cap? Y yes ___ no
Bolts secured? Y yes ___ no
Surface Seal? Y yes ___ no

Replaced? ___ yes X no
Replaced? ___ yes X no
Replaced? ___ yes ___ no

0.4 PID
N/A Vacuum
904 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-43
Sample ID: MW-43
Date: 3/11

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 35.23 feet 4Q13: 35.26
Depth to Water: 16.11 feet 4Q13: 16.96
Constructed Screen Interval 10 feet to 35 feet
Approximate Pump Depth 26.5 Feet bgs 26 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	1139	21.51	2.971	1.931	2.15	7.24	52.5	Slt Turbid, No odor
0.50	1143	22.10	2.984	1.940	1.72	7.24	45.0	Slt turbid, No odor
0.75	1148	22.11	2.987	1.942	1.68	7.24	44.8	Slt Turbid, No odor
1.0	1153	22.14	2.987	1.941	1.66	7.24	44.7	Slt Turbid, No odor
1.25	1158	22.14	2.987	1.940	1.63	7.23	44.6	Slt Turbid, No odor
1.5	1203	22.15	2.985	1.939	1.60	7.23	44.6	Slt Turbid, No odor

Total Water Volume Purged: 1.50 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.2 PID
N/A Vacuum
1210 Sample Collection Time

Maryland Square PCE Site

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Cardno ATC
Shaping the Future

January 31, 2014

Andrew Stuart
Cardno ATC
7115 Amigo Street Suite 100
Las Vegas, NV 89119
TEL: (702) 990-9300
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

Workorder No.: N011880

RE: Maryland Square, 085.42620.0001

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on January 27, 2014 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Liburdi for

Jose Tenorio Jr.
Laboratory Director

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011880

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.

Advanced Technology Laboratories, Inc.

Date: *31-Jan-14*

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011880
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011880-001A	MW-19D1	Groundwater	1/27/2014 10:37:00 AM	1/27/2014	
N011880-002A	MW-19D2	Groundwater	1/27/2014 9:24:00 AM	1/27/2014	
N011880-003A	MW-19D3	Groundwater	1/27/2014 9:59:00 AM	1/27/2014	

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D1
Lab Order:	N011880	**Collection Date:**	1/27/2014 10:37:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N011880-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140128A**	QC Batch: **P14VW016**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	1/28/2014 09:49 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	1/28/2014 09:49 PM
Tetrachloroethene	490	2.3	10		µg/L	20	1/28/2014 07:02 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	1/28/2014 09:49 PM
Trichloroethene	2.4	0.075	0.50		µg/L	1	1/28/2014 09:49 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	1/28/2014 09:49 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	1/28/2014 09:49 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	20	1/28/2014 07:02 PM
Surr: 4-Bromofluorobenzene	107	0	80-120		%REC	1	1/28/2014 09:49 PM
Surr: 4-Bromofluorobenzene	105	0	80-120		%REC	20	1/28/2014 07:02 PM
Surr: Dibromofluoromethane	101	0	73-128		%REC	1	1/28/2014 09:49 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	20	1/28/2014 07:02 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	1/28/2014 09:49 PM
Surr: Toluene-d8	98.7	0	80-120		%REC	20	1/28/2014 07:02 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D2
Lab Order:	N011880	**Collection Date:**	1/27/2014 9:24:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N011880-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140128A**	QC Batch: **P14VW016**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	1/28/2014 06:38 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	1/28/2014 06:38 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	1/28/2014 06:38 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	1/28/2014 06:38 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	1/28/2014 06:38 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	1/28/2014 06:38 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	1/28/2014 06:38 PM
Surr: 4-Bromofluorobenzene	105	0	80-120		%REC	1	1/28/2014 06:38 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	1/28/2014 06:38 PM
Surr: Toluene-d8	90.9	0	80-120		%REC	1	1/28/2014 06:38 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-19D3
Lab Order:	N011880	**Collection Date:**	1/27/2014 9:59:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N011880-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140128A**	QC Batch: **P14VW016**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	1/28/2014 09:25 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	1/28/2014 09:25 PM
Tetrachloroethene	32	0.12	0.50		µg/L	1	1/28/2014 09:25 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	1/28/2014 09:25 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	1/28/2014 09:25 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	1/28/2014 09:25 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	1/28/2014 09:25 PM
Surr: 4-Bromofluorobenzene	107	0	80-120		%REC	1	1/28/2014 09:25 PM
Surr: Dibromofluoromethane	100	0	73-128		%REC	1	1/28/2014 09:25 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	1/28/2014 09:25 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		

CLIENT: Cardno ATC
Work Order: N011880
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140128BLCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92157**
Client ID: **LCSW** Batch ID: **P14VW016** TestNo: **EPA 8260B** Analysis Date: **1/28/2014** SeqNo: **1728361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.880	0.50	20.00	0	114	69	125				
cis-1,2-Dichloroethene	21.990	0.50	20.00	0	110	74	120				
Tetrachloroethene	20.960	0.50	20.00	0	105	80	120				
trans-1,2-Dichloroethene	21.370	0.50	20.00	0	107	74	120				
Trichloroethene	21.180	0.50	20.00	0	106	80	120				
Vinyl chloride	23.690	0.50	20.00	0	118	72	120				
Surr: 1,2-Dichloroethane-d4	25.240		25.00		101	70	127				
Surr: 4-Bromofluorobenzene	26.700		25.00		107	80	120				
Surr: Dibromofluoromethane	26.040		25.00		104	73	128				
Surr: Toluene-d8	25.310		25.00		101	80	120				

Sample ID: **P140128BLCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92157**
Client ID: **LCSS02** Batch ID: **P14VW016** TestNo: **EPA 8260B** Analysis Date: **1/28/2014** SeqNo: **1728362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.020	0.50	20.00	0	110	69	125	22.88	3.83	20	
cis-1,2-Dichloroethene	21.280	0.50	20.00	0	106	74	120	21.99	3.28	20	
Tetrachloroethene	20.190	0.50	20.00	0	101	80	120	20.96	3.74	20	
trans-1,2-Dichloroethene	21.190	0.50	20.00	0	106	74	120	21.37	0.846	20	
Trichloroethene	19.740	0.50	20.00	0	98.7	80	120	21.18	7.04	20	
Vinyl chloride	23.100	0.50	20.00	0	116	72	120	23.69	2.52	20	
Surr: 1,2-Dichloroethane-d4	25.720		25.00		103	70	127		0	20	
Surr: 4-Bromofluorobenzene	26.720		25.00		107	80	120		0	20	
Surr: Dibromofluoromethane	26.150		25.00		105	73	128		0	20	
Surr: Toluene-d8	24.860		25.00		99.4	80	120		0	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N011880
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140128BMB3** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92157**
Client ID: **PBW** Batch ID: **P14VW016** TestNo: **EPA 8260B** Analysis Date: **1/28/2014** SeqNo: **1728363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.240		25.00		101	70	127				
Surr: 4-Bromofluorobenzene	26.280		25.00		105	80	120				
Surr: Dibromofluoromethane	26.590		25.00		106	73	128				
Surr: Toluene-d8	25.170		25.00		101	80	120				

Sample ID: **N011885-001AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92157**
Client ID: **ZZZZZZ** Batch ID: **P14VW016** TestNo: **EPA 8260B** Analysis Date: **1/28/2014** SeqNo: **1728368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.170	0.50	20.00	0	106	65	128				
cis-1,2-Dichloroethene	21.300	0.50	20.00	0	106	73	120				
Tetrachloroethene	19.910	0.50	20.00	0	99.6	76	120				
trans-1,2-Dichloroethene	20.600	0.50	20.00	0	103	72	122				
Trichloroethene	20.070	0.50	20.00	0	100	76	120				
Vinyl chloride	23.080	0.50	20.00	0	115	67	120				
Surr: 1,2-Dichloroethane-d4	26.520		25.00		106	70	127				
Surr: 4-Bromofluorobenzene	27.940		25.00		112	80	120				
Surr: Dibromofluoromethane	25.810		25.00		103	73	128				
Surr: Toluene-d8	25.370		25.00		101	80	120				

Sample ID: **N011885-001AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92157**
Client ID: **ZZZZZZ** Batch ID: **P14VW016** TestNo: **EPA 8260B** Analysis Date: **1/28/2014** SeqNo: **1728369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N011880
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N011885-001AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92157**
Client ID: **ZZZZZZ** Batch ID: **P14VW016** TestNo: **EPA 8260B** Analysis Date: **1/28/2014** SeqNo: **1728369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.790	0.50	20.00	0	104	65	128	21.17	1.81	20	
cis-1,2-Dichloroethene	21.620	0.50	20.00	0	108	73	120	21.30	1.49	20	
Tetrachloroethene	19.630	0.50	20.00	0	98.2	76	120	19.91	1.42	20	
trans-1,2-Dichloroethene	20.580	0.50	20.00	0	103	72	122	20.60	0.0971	20	
Trichloroethene	20.240	0.50	20.00	0	101	76	120	20.07	0.843	20	
Vinyl chloride	22.930	0.50	20.00	0	115	67	120	23.08	0.652	20	
Surr: 1,2-Dichloroethane-d4	25.970		25.00		104	70	127		0		
Surr: 4-Bromofluorobenzene	27.220		25.00		109	80	120		0		
Surr: Dibromofluoromethane	25.280		25.00		101	73	128		0		
Surr: Toluene-d8	25.260		25.00		101	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

CHAIN OF CUSTODY RECORD

Page 1 of 1

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #:

Logged By: HSG Date: 1/27/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt: 2.9°C
1. CHILLED Y ☑ N ☐ TR IR #2 — 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 ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip Code: 89119
Tel: 702 990 9300
Fax: 702 990 9305

Project Name: Maryland Square
Project #: 085.42620.0001

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.*
(Printed Name) Norman Ascano
(Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Norman Ascano	1/27/14	1518	MISCAYTON	1/27/14	1518
MacAytn	1/27/14	1547	HANAH BLODGETT	1/27/14	1547

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascano 1/27/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo St, suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
Sample :$2.00 / sample /mo (after 45 days)
Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested: 8260B (Volatiles) | 8015M - GRO | 8015B - DRO/ORO | PCB's 8082/PCB/VC 8260 | SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	10118879-1 (80) HSG 1/27/14	MW-19D1	1/27/14	1037	E	3	V	H	
	-2	MW-19D2	1/27/14	924	E	3	V	H	
	-3	MW-19D3	1/27/14	959	E	3	V	H	

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

■ TAT starts 8AM the following day if samples received after 3 PM

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=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Advanced Technology Laboratories, Inc.

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

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

Cooler Received/Opened On:	1/27/2014	Workorder:	N011880
Rep sample Temp (Deg C):	2.4	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	ATL		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By: HG 1/28/2014

Reviewed By: 2014-01-29

February 26, 2014

Andrew Stuart
Cardno ATC
7115 Amigo Street Suite 100
Las Vegas, NV 89119
TEL: (702) 990-9300
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

Workorder No.: N012011

RE: Maryland Square, 085.42620.0001

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on February 19, 2014 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Ribucao for

Jose Tenorio Jr.
Laboratory Director

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N012011

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 8260B:

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

Surrogate Toluene-d8 recovery was below the laboratory acceptable limit for sample N012011-002 possibly due to matrix interference. Reanalysis confirms low recovery caused by matrix effect. Reported result of reanalysis.

Advanced Technology Laboratories, Inc.

Date: *26-Feb-14*

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N012011
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N012011-001A	MW-19D1	Groundwater	2/19/2014 11:00:00 AM	2/19/2014	
N012011-002A	MW-19D2	Groundwater	2/19/2014 9:22:00 AM	2/19/2014	
N012011-003A	MW-19D3	Groundwater	2/19/2014 10:12:00 AM	2/19/2014	

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D1
Lab Order:	N012011	**Collection Date:**	2/19/2014 11:00:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012011-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140225A** QC Batch: **Q14VW006** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	2/25/2014 07:25 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	2/25/2014 07:25 PM
Tetrachloroethene	210	2.3	10		µg/L	20	2/25/2014 06:20 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	2/25/2014 07:25 PM
Trichloroethene	1.1	0.075	0.50		µg/L	1	2/25/2014 07:25 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	2/25/2014 07:25 PM
Surr: 1,2-Dichloroethane-d4	101	0	76-124		%REC	1	2/25/2014 07:25 PM
Surr: 1,2-Dichloroethane-d4	89.5	0	76-124		%REC	20	2/25/2014 06:20 PM
Surr: 4-Bromofluorobenzene	97.8	0	80-120		%REC	1	2/25/2014 07:25 PM
Surr: 4-Bromofluorobenzene	88.5	0	80-120		%REC	20	2/25/2014 06:20 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	2/25/2014 07:25 PM
Surr: Dibromofluoromethane	90.0	0	80-124		%REC	20	2/25/2014 06:20 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	2/25/2014 07:25 PM
Surr: Toluene-d8	94.1	0	80-120		%REC	20	2/25/2014 06:20 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D2
Lab Order:	N012011	**Collection Date:**	2/19/2014 9:22:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012011-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140225A**	QC Batch: **Q14VW006**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	2/25/2014 05:56 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	2/25/2014 05:56 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	2/25/2014 05:56 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	2/25/2014 05:56 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	2/25/2014 05:56 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	2/25/2014 05:56 PM
Surr: 1,2-Dichloroethane-d4	95.2	0	76-124		%REC	1	2/25/2014 05:56 PM
Surr: 4-Bromofluorobenzene	92.4	0	80-120		%REC	1	2/25/2014 05:56 PM
Surr: Dibromofluoromethane	96.2	0	80-124		%REC	1	2/25/2014 05:56 PM
Surr: Toluene-d8	52.4	0	80-120	S	%REC	1	2/25/2014 05:56 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D3
Lab Order:	N012011	**Collection Date:**	2/19/2014 10:12:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012011-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140225A**	QC Batch: **Q14VW006**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	2/25/2014 07:03 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	2/25/2014 07:03 PM
Tetrachloroethene	36	0.12	0.50		µg/L	1	2/25/2014 07:03 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	2/25/2014 07:03 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	2/25/2014 07:03 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	2/25/2014 07:03 PM
Surr: 1,2-Dichloroethane-d4	102	0	76-124		%REC	1	2/25/2014 07:03 PM
Surr: 4-Bromofluorobenzene	98.1	0	80-120		%REC	1	2/25/2014 07:03 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	2/25/2014 07:03 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	2/25/2014 07:03 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		

CLIENT: Cardno ATC
Work Order: N012011
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140225LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92511**
Client ID: **LCSW** Batch ID: **Q14VW006** TestNo: **EPA 8260B** Analysis Date: **2/25/2014** SeqNo: **1741806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.240	0.50	20.00	0	96.2	71	128				
cis-1,2-Dichloroethene	18.680	0.50	20.00	0	93.4	77	120				
Tetrachloroethene	21.000	0.50	20.00	0	105	80	120				
trans-1,2-Dichloroethene	19.440	0.50	20.00	0	97.2	75	122				
Trichloroethene	20.100	0.50	20.00	0	101	80	120				
Vinyl chloride	19.030	0.50	20.00	0	95.2	66	131				
Surr: 1,2-Dichloroethane-d4	23.730		25.00		94.9	76	124				
Surr: 4-Bromofluorobenzene	25.290		25.00		101	80	120				
Surr: Dibromofluoromethane	24.610		25.00		98.4	80	124				
Surr: Toluene-d8	24.720		25.00		98.9	80	120				

Sample ID: **Q140225MB5** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92511**
Client ID: **PBW** Batch ID: **Q14VW006** TestNo: **EPA 8260B** Analysis Date: **2/25/2014** SeqNo: **1741807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.970		25.00		99.9	76	124				
Surr: 4-Bromofluorobenzene	24.090		25.00		96.4	80	120				
Surr: Dibromofluoromethane	25.420		25.00		102	80	124				
Surr: Toluene-d8	25.470		25.00		102	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012011
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N012011-002AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92511**
Client ID: **ZZZZZZ** Batch ID: **Q14VW006** TestNo: **EPA 8260B** Analysis Date: **2/25/2014** SeqNo: **1741910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	11.220	0.50	20.00	0	56.1	66	134				S
cis-1,2-Dichloroethene	9.450	0.50	20.00	0	47.2	78	121				S
Tetrachloroethene	20.560	0.50	20.00	0.4900	100	62	128				
trans-1,2-Dichloroethene	4.140	0.50	20.00	0	20.7	70	128				S
Trichloroethene	14.220	0.50	20.00	0	71.1	80	120				S
Vinyl chloride	6.970	0.50	20.00	0	34.9	63	138				S
Surr: 1,2-Dichloroethane-d4	24.830		25.00		99.3	76	124				
Surr: 4-Bromofluorobenzene	24.430		25.00		97.7	80	120				
Surr: Dibromofluoromethane	25.440		25.00		102	80	124				
Surr: Toluene-d8	24.460		25.00		97.8	80	120				

Sample ID: **N012011-002AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92511**
Client ID: **ZZZZZZ** Batch ID: **Q14VW006** TestNo: **EPA 8260B** Analysis Date: **2/25/2014** SeqNo: **1741911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	10.520	0.50	20.00	0	52.6	66	134	11.22	6.44	20	S
cis-1,2-Dichloroethene	8.090	0.50	20.00	0	40.5	78	121	9.450	15.5	20	S
Tetrachloroethene	19.830	0.50	20.00	0.4900	96.7	62	128	20.56	3.61	20	
trans-1,2-Dichloroethene	3.400	0.50	20.00	0	17.0	70	128	4.140	19.6	20	S
Trichloroethene	12.760	0.50	20.00	0	63.8	80	120	14.22	10.8	20	S
Vinyl chloride	6.450	0.50	20.00	0	32.2	63	138	6.970	7.75	20	S
Surr: 1,2-Dichloroethane-d4	25.120		25.00		100	76	124		0		
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	80	120		0		
Surr: Dibromofluoromethane	25.740		25.00		103	80	124		0		
Surr: Toluene-d8	25.030		25.00		100	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

CHAIN OF CUSTODY RECORD

Page 1 of

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #:

Logged By: HSG Date: 2/19/14

Method of Transport: Client ☐ ATL ☒ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt
1. CHILLED 5.8°C IR2 Y ☒ N ☐ 4. SEALED Y ☐ N ☒
2. HEADSPACE (VOA) Y ☐ N ☒ 5. # OF SPLS MATCH COC Y ☒ N ☐
3. CONTAINER INTACT Y ☒ N ☐ 6. PRESERVED Y ☒ N ☐

Client: Cardno ATC	Address: 7115 Amigo Street, Suite 100		Tel: 702-990-9300
Attention: Andrew Stuart	City: Las Vegas	State: Nevada Zip Code: 89119	Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name)	Date: 2/19	Time: 1243	Received by: (Signature and Printed Name)	Date: 2/19/14	Time: 1443
Relinquished by: (Signature and Printed Name)	Date: 2/19/13	Time: 1457	Received by: (Signature and Printed Name)	Date: 2/19/14	Time: 1458
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: 2/19/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA / QC: RTNE ☐ CT ☐ SWRCB Logcode ☐ OTHER

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	A01201I-1	MW-19D1	2/19	1100				X				X			E	3	V	H	
	-2	MW-19D2	2/19	922				X				X			E	3	V	H	
	-3	MW-19D3	2/19	1012				X				X			E	3	V	H	

TAT starts 8AM the following day if samples received after 3 PM

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=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Advanced Technology Laboratories, Inc.

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

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

Cooler Received/Opened On:	2/19/2014	Workorder:	N012011
Rep sample Temp (Deg C):	5.8	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	ATL		
Last 4 digits of Tracking No.:	na	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By HG 2/19/2014

Reviewed By: 2014-02-26

March 20, 2014

Andrew Stuart
Cardno ATC
7115 Amigo Street Suite 100
Las Vegas, NV 89119
TEL: (702) 990-9300
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

Workorder No.: N012131

RE: Maryland Square, 085.42620.0001

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on March 13, 2014 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Liburdi for

Jose Tenorio Jr.
Laboratory Director

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N012131

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Sample N012131-024C (MW-19I) was not analyzed for hexavalend chromium due to color of sample that might interfere with the analysis.

Analytical Comments for EPA 8260B:

Surrogate Toluene-d8 recovery was below the laboratory acceptable limit for sample N012131-024, N012131-026 possibly due to matrix interference. Reanalysis confirms low recovery caused by matrix effect.

Matrix Spike (MS) on QC sample N012131-051AMS is outside recovery criteria for Vinyl Chloride 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 Vinyl Chloride ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories, Inc.

Date: *20-Mar-14*

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N012131
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N012131-001A	MW-1	Groundwater	3/3/2014 1:27:00 PM	3/13/2014	
N012131-002A	MW-2	Groundwater	3/4/2014 9:20:00 AM	3/13/2014	
N012131-003A	MW-3	Groundwater	3/12/2014 9:51:00 AM	3/13/2014	
N012131-004A	MW-5	Groundwater	3/4/2014 10:50:00 AM	3/13/2014	
N012131-005A	MW-6	Groundwater	3/4/2014 12:47:00 PM	3/13/2014	
N012131-006A	MW-6D1	Groundwater	3/5/2014 1:42:00 AM	3/13/2014	
N012131-007A	MW-6D2	Groundwater	3/5/2014 2:15:00 PM	3/13/2014	
N012131-008A	MW-6D3	Groundwater	3/5/2014 12:59:00 PM	3/13/2014	
N012131-009A	MW-7	Groundwater	3/3/2014 11:03:00 AM	3/13/2014	
N012131-010A	MW-8	Groundwater	3/3/2014 10:16:00 AM	3/13/2014	
N012131-011A	MW-9	Groundwater	3/3/2014 11:48:00 AM	3/13/2014	
N012131-012A	MW-10	Groundwater	3/5/2014 11:17:00 AM	3/13/2014	
N012131-013A	MW-11	Groundwater	3/5/2014 10:30:00 AM	3/13/2014	
N012131-014A	MW-12	Groundwater	3/3/2014 9:28:00 AM	3/13/2014	
N012131-015A	MW-13	Groundwater	3/4/2014 10:09:00 AM	3/13/2014	
N012131-016A	MW-14	Groundwater	3/4/2014 11:55:00 AM	3/13/2014	
N012131-017A	MW-14I	Groundwater	3/4/2014 1:45:00 PM	3/13/2014	
N012131-018A	MW-15	Groundwater	3/5/2014 12:03:00 PM	3/13/2014	
N012131-019A	MW-16	Groundwater	3/5/2014 9:24:00 AM	3/13/2014	
N012131-020A	MW-17	Groundwater	3/3/2014 12:43:00 PM	3/13/2014	
N012131-021A	MW-18	Groundwater	3/13/2014 11:29:00 AM	3/13/2014	
N012131-022A	MW-18 DUP	Groundwater	3/13/2014 11:29:00 AM	3/13/2014	
N012131-023A	MW-19	Groundwater	3/7/2014 2:24:00 PM	3/13/2014	
N012131-023B	MW-19	Groundwater	3/7/2014 2:24:00 PM	3/13/2014	
N012131-023C	MW-19	Groundwater	3/7/2014 2:24:00 PM	3/13/2014	
N012131-024A	MW-19I	Groundwater	3/12/2014 10:44:00 AM	3/13/2014	
N012131-024B	MW-19I	Groundwater	3/12/2014 10:44:00 AM	3/13/2014	
N012131-024C	MW-19I	Groundwater	3/12/2014 10:44:00 AM	3/13/2014	
N012131-025A	MW-19D1	Groundwater	3/12/2014 2:49:00 PM	3/13/2014	

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

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N012131
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N012131-026A	MW-19D2	Groundwater	3/7/2014 9:25:00 AM	3/13/2014	
N012131-027A	MW-19D3	Groundwater	3/7/2014 12:17:00 PM	3/13/2014	
N012131-028A	MW-20	Groundwater	3/12/2014 1:27:00 PM	3/13/2014	
N012131-028B	MW-20	Groundwater	3/12/2014 1:27:00 PM	3/13/2014	
N012131-028C	MW-20	Groundwater	3/12/2014 1:27:00 PM	3/13/2014	
N012131-029A	MW-20D1	Groundwater	3/7/2014 1:24:00 PM	3/13/2014	
N012131-030A	MW-20D2	Groundwater	3/7/2014 11:15:00 AM	3/13/2014	
N012131-031A	MW-20D3	Groundwater	3/7/2014 10:20:00 AM	3/13/2014	
N012131-032A	MW-21	Groundwater	3/12/2014 11:31:00 AM	3/13/2014	
N012131-033A	MW-22	Groundwater	3/11/2014 1:14:00 PM	3/13/2014	
N012131-034A	MW-23	Groundwater	3/13/2014 12:20:00 PM	3/13/2014	
N012131-035A	MW-24	Groundwater	3/11/2014 10:24:00 AM	3/13/2014	
N012131-036A	MW-25	Groundwater	3/13/2014 9:37:00 AM	3/13/2014	
N012131-037A	MW-26	Groundwater	3/13/2014 10:30:00 AM	3/13/2014	
N012131-038A	MW-27	Groundwater	3/11/2014 2:12:00 PM	3/13/2014	
N012131-039A	MW-28	Groundwater	3/11/2014 9:34:00 AM	3/13/2014	
N012131-040A	MW-29	Groundwater	3/11/2014 8:47:00 AM	3/13/2014	
N012131-041A	MW-30	Groundwater	3/10/2014 1:41:00 PM	3/13/2014	
N012131-042A	MW-31	Groundwater	3/10/2014 12:39:00 PM	3/13/2014	
N012131-043A	MW-32	Groundwater	3/11/2014 3:05:00 PM	3/13/2014	
N012131-044A	MW-33	Groundwater	3/11/2014 11:20:00 AM	3/13/2014	
N012131-045A	MW-34	Groundwater	3/3/2014 2:55:00 PM	3/13/2014	
N012131-046A	MW-35	Groundwater	3/3/2014 2:07:00 PM	3/13/2014	
N012131-047A	MW-36	Groundwater	3/10/2014 2:42:00 PM	3/13/2014	
N012131-048A	MW-37	Groundwater	3/10/2014 11:42:00 AM	3/13/2014	
N012131-049A	MW-38	Groundwater	3/10/2014 10:47:00 AM	3/13/2014	
N012131-050A	MW-39	Groundwater	3/10/2014 3:32:00 PM	3/13/2014	
N012131-051A	MW-40 CMT-30	Groundwater	3/6/2014 10:12:00 AM	3/13/2014	
N012131-051B	MW-40 CMT-30	Groundwater	3/6/2014 10:12:00 AM	3/13/2014	
N012131-051C	MW-40 CMT-30	Groundwater	3/6/2014 10:12:00 AM	3/13/2014	

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N012131
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N012131-052A	MW-40 CMT-35	Groundwater	3/6/2014 11:05:00 AM	3/13/2014	
N012131-052B	MW-40 CMT-35	Groundwater	3/6/2014 11:05:00 AM	3/13/2014	
N012131-052C	MW-40 CMT-35	Groundwater	3/6/2014 11:05:00 AM	3/13/2014	
N012131-053A	MW-40 CMT-40	Groundwater	3/6/2014 11:59:00 AM	3/13/2014	
N012131-053B	MW-40 CMT-40	Groundwater	3/6/2014 11:59:00 AM	3/13/2014	
N012131-053C	MW-40 CMT-40	Groundwater	3/6/2014 11:59:00 AM	3/13/2014	
N012131-054A	MW-40 CMT-45	Groundwater	3/6/2014 12:45:00 PM	3/13/2014	
N012131-054B	MW-40 CMT-45	Groundwater	3/6/2014 12:45:00 PM	3/13/2014	
N012131-054C	MW-40 CMT-45	Groundwater	3/6/2014 12:45:00 PM	3/13/2014	
N012131-055A	MW-40 CMT-50	Groundwater	3/6/2014 1:50:00 PM	3/13/2014	
N012131-055B	MW-40 CMT-50	Groundwater	3/6/2014 1:50:00 PM	3/13/2014	
N012131-055C	MW-40 CMT-50	Groundwater	3/6/2014 1:50:00 PM	3/13/2014	
N012131-056A	MW-40 CMT-55	Groundwater	3/6/2014 2:12:00 PM	3/13/2014	
N012131-056B	MW-40 CMT-55	Groundwater	3/6/2014 2:12:00 PM	3/13/2014	
N012131-056C	MW-40 CMT-55	Groundwater	3/6/2014 2:12:00 PM	3/13/2014	
N012131-057A	MW-40 CMT-60	Groundwater	3/6/2014 1:20:00 PM	3/13/2014	
N012131-057B	MW-40 CMT-60	Groundwater	3/6/2014 1:20:00 PM	3/13/2014	
N012131-057C	MW-40 CMT-60	Groundwater	3/6/2014 1:20:00 PM	3/13/2014	
N012131-058A	MW-41	Groundwater	3/10/2014 9:58:00 AM	3/13/2014	
N012131-059A	MW-42	Groundwater	3/10/2014 9:04:00 AM	3/13/2014	
N012131-060A	MW-43	Groundwater	3/11/2014 12:10:00 PM	3/13/2014	
N012131-061A	Trip Blank	Groundwater	3/13/2014 7:15:00 AM	3/13/2014	
N012131-062A	Field Blank	Groundwater	3/13/2014 12:30:00 PM	3/13/2014	
N012131-063A	Equip Rinse	Groundwater	3/13/2014 12:50:00 PM	3/13/2014	

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-1
Lab Order:	N012131	**Collection Date:**	3/3/2014 1:27:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140313A**	QC Batch: **P14VW044**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 10:59 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 10:59 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 10:59 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 10:59 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 10:59 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 10:59 PM
Tetrachloroethene	350	1.2	5.0		µg/L	10	3/13/2014 10:29 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 10:59 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 10:59 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 10:59 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 10:59 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	10	3/13/2014 10:29 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/13/2014 10:59 PM
Surr: 4-Bromofluorobenzene	110	0	80-120		%REC	10	3/13/2014 10:29 PM
Surr: 4-Bromofluorobenzene	108	0	80-120		%REC	1	3/13/2014 10:59 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/13/2014 10:59 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	10	3/13/2014 10:29 PM
Surr: Toluene-d8	96.0	0	80-120		%REC	10	3/13/2014 10:29 PM
Surr: Toluene-d8	96.6	0	80-120		%REC	1	3/13/2014 10:59 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-2
Lab Order:	N012131	**Collection Date:**	3/4/2014 9:20:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140314A** QC Batch: **Q14VW008** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 08:02 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 08:02 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 08:02 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 08:02 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 08:02 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 08:02 PM
Tetrachloroethene	340	2.3	10		µg/L	20	3/14/2014 02:43 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 08:02 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 08:02 PM
Trichloroethene	1.8	0.075	0.50		µg/L	1	3/14/2014 08:02 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 08:02 PM
Surr: 1,2-Dichloroethane-d4	99.0	0	76-124		%REC	20	3/14/2014 02:43 PM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/14/2014 08:02 PM
Surr: 4-Bromofluorobenzene	90.3	0	80-120		%REC	20	3/14/2014 02:43 PM
Surr: 4-Bromofluorobenzene	94.3	0	80-120		%REC	1	3/14/2014 08:02 PM
Surr: Dibromofluoromethane	105	0	80-124		%REC	1	3/14/2014 08:02 PM
Surr: Dibromofluoromethane	91.5	0	80-124		%REC	20	3/14/2014 02:43 PM
Surr: Toluene-d8	90.1	0	80-120		%REC	20	3/14/2014 02:43 PM
Surr: Toluene-d8	95.0	0	80-120		%REC	1	3/14/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-3
Lab Order:	N012131	**Collection Date:**	3/12/2014 9:51:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140319A**	QC Batch: **Q14VW012**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 01:55 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 01:55 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 01:55 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 01:55 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 01:55 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 01:55 PM
Tetrachloroethene	11	0.12	0.50		µg/L	1	3/19/2014 01:55 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 01:55 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 01:55 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 01:55 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 01:55 PM
Surr: 1,2-Dichloroethane-d4	116	0	76-124		%REC	1	3/19/2014 01:55 PM
Surr: 4-Bromofluorobenzene	105	0	80-120		%REC	1	3/19/2014 01:55 PM
Surr: Dibromofluoromethane	112	0	80-124		%REC	1	3/19/2014 01:55 PM
Surr: Toluene-d8	109	0	80-120		%REC	1	3/19/2014 01:55 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-5
Lab Order:	N012131	**Collection Date:**	3/4/2014 10:50:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 08:23 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 08:23 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 08:23 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 08:23 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 08:23 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 08:23 PM
Tetrachloroethene	440	2.3	10		µg/L	20	3/14/2014 03:04 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 08:23 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 08:23 PM
Trichloroethene	2.2	0.075	0.50		µg/L	1	3/14/2014 08:23 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 08:23 PM
Surr: 1,2-Dichloroethane-d4	102	0	76-124		%REC	20	3/14/2014 03:04 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/14/2014 08:23 PM
Surr: 4-Bromofluorobenzene	95.8	0	80-120		%REC	20	3/14/2014 03:04 PM
Surr: 4-Bromofluorobenzene	93.8	0	80-120		%REC	1	3/14/2014 08:23 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/14/2014 08:23 PM
Surr: Dibromofluoromethane	100	0	80-124		%REC	20	3/14/2014 03:04 PM
Surr: Toluene-d8	98.1	0	80-120		%REC	20	3/14/2014 03:04 PM
Surr: Toluene-d8	97.6	0	80-120		%REC	1	3/14/2014 08:23 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-6
Lab Order:	N012131	**Collection Date:**	3/4/2014 12:47:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 08:44 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 08:44 PM
cis-1,2-Dichloroethene	2.3	0.057	0.50		µg/L	1	3/14/2014 08:44 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 08:44 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 08:44 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 08:44 PM
Tetrachloroethene	2700	5.9	25		µg/L	50	3/14/2014 03:25 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 08:44 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 08:44 PM
Trichloroethene	11	0.075	0.50		µg/L	1	3/14/2014 08:44 PM
Vinyl chloride	0.78	0.082	0.50		µg/L	1	3/14/2014 08:44 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	50	3/14/2014 03:25 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/14/2014 08:44 PM
Surr: 4-Bromofluorobenzene	95.1	0	80-120		%REC	50	3/14/2014 03:25 PM
Surr: 4-Bromofluorobenzene	96.1	0	80-120		%REC	1	3/14/2014 08:44 PM
Surr: Dibromofluoromethane	105	0	80-124		%REC	1	3/14/2014 08:44 PM
Surr: Dibromofluoromethane	105	0	80-124		%REC	50	3/14/2014 03:25 PM
Surr: Toluene-d8	99.4	0	80-120		%REC	50	3/14/2014 03:25 PM
Surr: Toluene-d8	93.9	0	80-120		%REC	1	3/14/2014 08:44 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-6D1
Lab Order:	N012131	**Collection Date:**	3/5/2014 1:42:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140314A** QC Batch: **Q14VW008** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 03:47 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 03:47 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 03:47 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 03:47 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 03:47 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 03:47 PM
Tetrachloroethene	1.2	0.12	0.50		µg/L	1	3/14/2014 03:47 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 03:47 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 03:47 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/14/2014 03:47 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 03:47 PM
Surr: 1,2-Dichloroethane-d4	109	0	76-124		%REC	1	3/14/2014 03:47 PM
Surr: 4-Bromofluorobenzene	92.4	0	80-120		%REC	1	3/14/2014 03:47 PM
Surr: Dibromofluoromethane	105	0	80-124		%REC	1	3/14/2014 03:47 PM
Surr: Toluene-d8	97.5	0	80-120		%REC	1	3/14/2014 03:47 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-6D2
Lab Order:	N012131	**Collection Date:**	3/5/2014 2:15:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140314A** QC Batch: **Q14VW008** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 06:16 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 06:16 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 06:16 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 06:16 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 06:16 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 06:16 PM
Tetrachloroethene	1.6	0.12	0.50		µg/L	1	3/14/2014 06:16 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 06:16 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 06:16 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/14/2014 06:16 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 06:16 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/14/2014 06:16 PM
Surr: 4-Bromofluorobenzene	94.6	0	80-120		%REC	1	3/14/2014 06:16 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/14/2014 06:16 PM
Surr: Toluene-d8	96.7	0	80-120		%REC	1	3/14/2014 06:16 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-6D3
Lab Order:	N012131	**Collection Date:**	3/5/2014 12:59:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140313A** QC Batch: **P14VW044** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 06:33 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 06:33 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 06:33 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 06:33 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 06:33 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 06:33 PM
Tetrachloroethene	1.9	0.12	0.50		µg/L	1	3/13/2014 06:33 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 06:33 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 06:33 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 06:33 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 06:33 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/13/2014 06:33 PM
Surr: 4-Bromofluorobenzene	94.0	0	80-120		%REC	1	3/13/2014 06:33 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/13/2014 06:33 PM
Surr: Toluene-d8	96.2	0	80-120		%REC	1	3/13/2014 06:33 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-7
Lab Order:	N012131	**Collection Date:**	3/3/2014 11:03:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140313A** QC Batch: **P14VW044** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 07:03 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 07:03 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 07:03 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 07:03 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 07:03 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 07:03 PM
Tetrachloroethene	1.3	0.12	0.50		µg/L	1	3/13/2014 07:03 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 07:03 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 07:03 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 07:03 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 07:03 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/13/2014 07:03 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/13/2014 07:03 PM
Surr: Dibromofluoromethane	105	0	80-124		%REC	1	3/13/2014 07:03 PM
Surr: Toluene-d8	97.3	0	80-120		%REC	1	3/13/2014 07:03 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-8
Lab Order:	N012131	**Collection Date:**	3/3/2014 10:16:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140313A** QC Batch: **P14VW044** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 05:00 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 05:00 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 05:00 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 05:00 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 05:00 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 05:00 PM
Tetrachloroethene	1.6	0.12	0.50		µg/L	1	3/13/2014 05:00 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 05:00 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 05:00 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 05:00 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 05:00 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/13/2014 05:00 PM
Surr: 4-Bromofluorobenzene	93.3	0	80-120		%REC	1	3/13/2014 05:00 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/13/2014 05:00 PM
Surr: Toluene-d8	109	0	80-120		%REC	1	3/13/2014 05:00 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-9
Lab Order:	N012131	**Collection Date:**	3/3/2014 11:48:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-011A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140313A** QC Batch: **P14VW044** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 07:32 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 07:32 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 07:32 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 07:32 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 07:32 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 07:32 PM
Tetrachloroethene	11	0.12	0.50		µg/L	1	3/13/2014 07:32 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 07:32 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 07:32 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 07:32 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 07:32 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	1	3/13/2014 07:32 PM
Surr: 4-Bromofluorobenzene	99.8	0	80-120		%REC	1	3/13/2014 07:32 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/13/2014 07:32 PM
Surr: Toluene-d8	96.2	0	80-120		%REC	1	3/13/2014 07:32 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-10
Lab Order:	N012131	**Collection Date:**	3/5/2014 11:17:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-012A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 06:37 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 06:37 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 06:37 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 06:37 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 06:37 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 06:37 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/14/2014 06:37 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 06:37 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 06:37 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/14/2014 06:37 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 06:37 PM
Surr: 1,2-Dichloroethane-d4	114	0	76-124		%REC	1	3/14/2014 06:37 PM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	1	3/14/2014 06:37 PM
Surr: Dibromofluoromethane	112	0	80-124		%REC	1	3/14/2014 06:37 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	3/14/2014 06:37 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-11
Lab Order:	N012131	**Collection Date:**	3/5/2014 10:30:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-013A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 06:58 PM
Benzene	1.4	0.048	0.50		µg/L	1	3/14/2014 06:58 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 06:58 PM
Ethylbenzene	25	0.036	0.50		µg/L	1	3/14/2014 06:58 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 06:58 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 06:58 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/14/2014 06:58 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 06:58 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 06:58 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/14/2014 06:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 06:58 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	1	3/14/2014 06:58 PM
Surr: 4-Bromofluorobenzene	96.3	0	80-120		%REC	1	3/14/2014 06:58 PM
Surr: Dibromofluoromethane	106	0	80-124		%REC	1	3/14/2014 06:58 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	3/14/2014 06:58 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-12
Lab Order:	N012131	**Collection Date:**	3/3/2014 9:28:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-014A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140313A** QC Batch: **P14VW044** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 08:02 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 08:02 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 08:02 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 08:02 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 08:02 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 08:02 PM
Tetrachloroethene	0.67	0.12	0.50		µg/L	1	3/13/2014 08:02 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 08:02 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 08:02 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 08:02 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 08:02 PM
Surr: 1,2-Dichloroethane-d4	110	0	76-124		%REC	1	3/13/2014 08:02 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/13/2014 08:02 PM
Surr: Dibromofluoromethane	106	0	80-124		%REC	1	3/13/2014 08:02 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	3/13/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-13
Lab Order:	N012131	**Collection Date:**	3/4/2014 10:09:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-015A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 09:06 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 09:06 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 09:06 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 09:06 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 09:06 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 09:06 PM
Tetrachloroethene	1500	5.9	25		µg/L	50	3/14/2014 05:12 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 09:06 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 09:06 PM
Trichloroethene	3.7	0.075	0.50		µg/L	1	3/14/2014 09:06 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 09:06 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	50	3/14/2014 05:12 PM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/14/2014 09:06 PM
Surr: 4-Bromofluorobenzene	95.2	0	80-120		%REC	50	3/14/2014 05:12 PM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	1	3/14/2014 09:06 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/14/2014 09:06 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	50	3/14/2014 05:12 PM
Surr: Toluene-d8	96.4	0	80-120		%REC	50	3/14/2014 05:12 PM
Surr: Toluene-d8	95.2	0	80-120		%REC	1	3/14/2014 09:06 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-14
Lab Order:	N012131	**Collection Date:**	3/4/2014 11:55:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-016A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 09:27 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 09:27 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 09:27 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 09:27 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 09:27 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 09:27 PM
Tetrachloroethene	930	5.9	25		µg/L	50	3/14/2014 05:33 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 09:27 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 09:27 PM
Trichloroethene	2.2	0.075	0.50		µg/L	1	3/14/2014 09:27 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 09:27 PM
Surr: 1,2-Dichloroethane-d4	102	0	76-124		%REC	50	3/14/2014 05:33 PM
Surr: 1,2-Dichloroethane-d4	112	0	76-124		%REC	1	3/14/2014 09:27 PM
Surr: 4-Bromofluorobenzene	94.2	0	80-120		%REC	50	3/14/2014 05:33 PM
Surr: 4-Bromofluorobenzene	97.3	0	80-120		%REC	1	3/14/2014 09:27 PM
Surr: Dibromofluoromethane	109	0	80-124		%REC	1	3/14/2014 09:27 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	50	3/14/2014 05:33 PM
Surr: Toluene-d8	97.5	0	80-120		%REC	50	3/14/2014 05:33 PM
Surr: Toluene-d8	95.6	0	80-120		%REC	1	3/14/2014 09:27 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-14I
Lab Order:	N012131	**Collection Date:**	3/4/2014 1:45:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-017A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 09:48 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 09:48 PM
cis-1,2-Dichloroethene	17	0.057	0.50		µg/L	1	3/14/2014 09:48 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 09:48 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 09:48 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 09:48 PM
Tetrachloroethene	7600	23	100		µg/L	200	3/14/2014 05:54 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 09:48 PM
trans-1,2-Dichloroethene	0.65	0.11	0.50		µg/L	1	3/14/2014 09:48 PM
Trichloroethene	32	0.075	0.50		µg/L	1	3/14/2014 09:48 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 09:48 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	200	3/14/2014 05:54 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/14/2014 09:48 PM
Surr: 4-Bromofluorobenzene	93.4	0	80-120		%REC	200	3/14/2014 05:54 PM
Surr: 4-Bromofluorobenzene	94.9	0	80-120		%REC	1	3/14/2014 09:48 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/14/2014 09:48 PM
Surr: Dibromofluoromethane	100	0	80-124		%REC	200	3/14/2014 05:54 PM
Surr: Toluene-d8	97.1	0	80-120		%REC	200	3/14/2014 05:54 PM
Surr: Toluene-d8	92.9	0	80-120		%REC	1	3/14/2014 09:48 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-15
Lab Order:	N012131	**Collection Date:**	3/5/2014 12:03:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-018A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140314A** QC Batch: **Q14VW008** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 07:19 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 07:19 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 07:19 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 07:19 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 07:19 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 07:19 PM
Tetrachloroethene	2.8	0.12	0.50		µg/L	1	3/14/2014 07:19 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 07:19 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 07:19 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/14/2014 07:19 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 07:19 PM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/14/2014 07:19 PM
Surr: 4-Bromofluorobenzene	95.1	0	80-120		%REC	1	3/14/2014 07:19 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/14/2014 07:19 PM
Surr: Toluene-d8	98.4	0	80-120		%REC	1	3/14/2014 07:19 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-16
Lab Order:	N012131	**Collection Date:**	3/5/2014 9:24:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-019A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140314A**	QC Batch: **Q14VW008**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 07:40 PM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 07:40 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 07:40 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 07:40 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 07:40 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 07:40 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/14/2014 07:40 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 07:40 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 07:40 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/14/2014 07:40 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 07:40 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/14/2014 07:40 PM
Surr: 4-Bromofluorobenzene	96.4	0	80-120		%REC	1	3/14/2014 07:40 PM
Surr: Dibromofluoromethane	107	0	80-124		%REC	1	3/14/2014 07:40 PM
Surr: Toluene-d8	98.1	0	80-120		%REC	1	3/14/2014 07:40 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-17
Lab Order:	N012131	**Collection Date:**	3/3/2014 12:43:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-020A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140313A** QC Batch: **P14VW044** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 11:29 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 11:29 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 11:29 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 11:29 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 11:29 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 11:29 PM
Tetrachloroethene	69	0.12	0.50		µg/L	1	3/13/2014 11:29 PM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 11:29 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 11:29 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 11:29 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 11:29 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/13/2014 11:29 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/13/2014 11:29 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/13/2014 11:29 PM
Surr: Toluene-d8	96.0	0	80-120		%REC	1	3/13/2014 11:29 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-18
Lab Order:	N012131	**Collection Date:**	3/13/2014 11:29:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-021A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 10:20 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 10:20 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 10:20 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 10:20 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 10:20 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 10:20 PM
Tetrachloroethene	230	2.3	10		µg/L	20	3/19/2014 07:04 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 10:20 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 10:20 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 10:20 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 10:20 PM
Surr: 1,2-Dichloroethane-d4	119	0	76-124		%REC	20	3/19/2014 07:04 PM
Surr: 1,2-Dichloroethane-d4	117	0	76-124		%REC	1	3/19/2014 10:20 PM
Surr: 4-Bromofluorobenzene	95.7	0	80-120		%REC	20	3/19/2014 07:04 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	3/19/2014 10:20 PM
Surr: Dibromofluoromethane	117	0	80-124		%REC	1	3/19/2014 10:20 PM
Surr: Dibromofluoromethane	115	0	80-124		%REC	20	3/19/2014 07:04 PM
Surr: Toluene-d8	103	0	80-120		%REC	20	3/19/2014 07:04 PM
Surr: Toluene-d8	105	0	80-120		%REC	1	3/19/2014 10:20 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-18 DUP
Lab Order:	N012131	**Collection Date:**	3/13/2014 11:29:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-022A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140319A**	QC Batch: **Q14VW012**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 10:42 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 10:42 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 10:42 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 10:42 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 10:42 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 10:42 PM
Tetrachloroethene	230	2.3	10		µg/L	20	3/19/2014 07:25 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 10:42 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 10:42 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 10:42 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 10:42 PM
Surr: 1,2-Dichloroethane-d4	115	0	76-124		%REC	20	3/19/2014 07:25 PM
Surr: 1,2-Dichloroethane-d4	117	0	76-124		%REC	1	3/19/2014 10:42 PM
Surr: 4-Bromofluorobenzene	96.8	0	80-120		%REC	20	3/19/2014 07:25 PM
Surr: 4-Bromofluorobenzene	98.9	0	80-120		%REC	1	3/19/2014 10:42 PM
Surr: Dibromofluoromethane	115	0	80-124		%REC	1	3/19/2014 10:42 PM
Surr: Dibromofluoromethane	115	0	80-124		%REC	20	3/19/2014 07:25 PM
Surr: Toluene-d8	102	0	80-120		%REC	20	3/19/2014 07:25 PM
Surr: Toluene-d8	104	0	80-120		%REC	1	3/19/2014 10:42 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19
Lab Order:	N012131	**Collection Date:**	3/7/2014 2:24:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-023A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140318A**	QC Batch: **Q14VW010**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 05:46 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 05:46 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 05:46 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 05:46 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 05:46 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 05:46 PM
Tetrachloroethene	910	1.2	5.0		µg/L	10	3/17/2014 09:29 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 05:46 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 05:46 PM
Trichloroethene	3.7	0.075	0.50		µg/L	1	3/18/2014 05:46 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 05:46 PM
Surr: 1,2-Dichloroethane-d4	109	0	76-124		%REC	10	3/17/2014 09:29 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/18/2014 05:46 PM
Surr: 4-Bromofluorobenzene	97.2	0	80-120		%REC	10	3/17/2014 09:29 PM
Surr: 4-Bromofluorobenzene	97.2	0	80-120		%REC	1	3/18/2014 05:46 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/18/2014 05:46 PM
Surr: Dibromofluoromethane	107	0	80-124		%REC	10	3/17/2014 09:29 PM
Surr: Toluene-d8	101	0	80-120		%REC	10	3/17/2014 09:29 PM
Surr: Toluene-d8	94.8	0	80-120		%REC	1	3/18/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19
Lab Order:	N012131	**Collection Date:**	3/7/2014 2:24:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-023B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			**EPA 6020**			
RunID: **ICP7_140314B**	QC Batch: **45222**			PrepDate:	**3/14/2014**		Analyst: **CEI**
Arsenic	3.2	0.027	0.10		µg/L	1	3/14/2014 02:10 PM
Chromium	1.7	0.030	1.0		µg/L	1	3/14/2014 02:10 PM
Manganese	ND	0.026	0.50		µg/L	1	3/14/2014 02:10 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-19
Lab Order:	N012131	**Collection Date:**	3/7/2014 2:24:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-023C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	2.0	0.024	0.20		µg/L	1	3/17/2014 11:45 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19I
Lab Order:	N012131	**Collection Date:**	3/12/2014 10:44:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-024A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 03:00 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 03:00 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 03:00 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 03:00 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 03:00 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 03:00 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 03:00 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 03:00 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 03:00 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 03:00 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 03:00 PM
Surr: 1,2-Dichloroethane-d4	117	0	76-124		%REC	1	3/19/2014 03:00 PM
Surr: 4-Bromofluorobenzene	98.1	0	80-120		%REC	1	3/19/2014 03:00 PM
Surr: Dibromofluoromethane	115	0	80-124		%REC	1	3/19/2014 03:00 PM
Surr: Toluene-d8	0.560	0	80-120	S	%REC	1	3/19/2014 03:00 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19I
Lab Order:	N012131	**Collection Date:**	3/12/2014 10:44:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-024B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_140314B**	QC Batch: **45222**				PrepDate:	**3/14/2014**	Analyst: **CEI**
Arsenic	ND	0.027	0.10		µg/L	1	3/14/2014 02:16 PM
Chromium	300	0.15	5.0		µg/L	5	3/14/2014 03:17 PM
Manganese	51000	13	250		µg/L	500	3/14/2014 03:22 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D1
Lab Order:	N012131	**Collection Date:**	3/12/2014 2:49:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-025A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140319A**	QC Batch: **Q14VW012**				PrepDate:		Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 09:37 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 09:37 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 09:37 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 09:37 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 09:37 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 09:37 PM
Tetrachloroethene	3.7	0.12	0.50		µg/L	1	3/19/2014 09:37 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 09:37 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 09:37 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 09:37 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 09:37 PM
Surr: 1,2-Dichloroethane-d4	119	0	76-124		%REC	1	3/19/2014 09:37 PM
Surr: 4-Bromofluorobenzene	99.9	0	80-120		%REC	1	3/19/2014 09:37 PM
Surr: Dibromofluoromethane	117	0	80-124		%REC	1	3/19/2014 09:37 PM
Surr: Toluene-d8	108	0	80-120		%REC	1	3/19/2014 09:37 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D2
Lab Order:	N012131	**Collection Date:**	3/7/2014 9:25:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-026A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140318A**	QC Batch: **Q14VW010**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 12:20 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 12:20 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 12:20 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 12:20 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 12:20 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 12:20 PM
Tetrachloroethene	0.53	0.12	0.50		µg/L	1	3/18/2014 12:20 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 12:20 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 12:20 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 12:20 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 12:20 PM
Surr: 1,2-Dichloroethane-d4	112	0	76-124		%REC	1	3/18/2014 12:20 PM
Surr: 4-Bromofluorobenzene	97.0	0	80-120		%REC	1	3/18/2014 12:20 PM
Surr: Dibromofluoromethane	109	0	80-124		%REC	1	3/18/2014 12:20 PM
Surr: Toluene-d8	2.68	0	80-120	S	%REC	1	3/18/2014 12:20 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-19D3
Lab Order:	N012131	**Collection Date:**	3/7/2014 12:17:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-027A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 12:41 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 12:41 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 12:41 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 12:41 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 12:41 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 12:41 PM
Tetrachloroethene	17	0.12	0.50		µg/L	1	3/18/2014 12:41 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 12:41 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 12:41 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 12:41 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 12:41 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/18/2014 12:41 PM
Surr: 4-Bromofluorobenzene	94.2	0	80-120		%REC	1	3/18/2014 12:41 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/18/2014 12:41 PM
Surr: Toluene-d8	95.4	0	80-120		%REC	1	3/18/2014 12:41 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-20
Lab Order:	N012131	**Collection Date:**	3/12/2014 1:27:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-028A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 05:11 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 05:11 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 05:11 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 05:11 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 05:11 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 05:11 PM
Tetrachloroethene	170	1.2	5.0		µg/L	10	3/19/2014 06:20 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 05:11 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 05:11 PM
Trichloroethene	0.66	0.075	0.50		µg/L	1	3/19/2014 05:11 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 05:11 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	10	3/19/2014 06:20 PM
Surr: 1,2-Dichloroethane-d4	116	0	76-124		%REC	1	3/19/2014 05:11 PM
Surr: 4-Bromofluorobenzene	93.5	0	80-120		%REC	10	3/19/2014 06:20 PM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	1	3/19/2014 05:11 PM
Surr: Dibromofluoromethane	111	0	80-124		%REC	1	3/19/2014 05:11 PM
Surr: Dibromofluoromethane	110	0	80-124		%REC	10	3/19/2014 06:20 PM
Surr: Toluene-d8	101	0	80-120		%REC	10	3/19/2014 06:20 PM
Surr: Toluene-d8	104	0	80-120		%REC	1	3/19/2014 05:11 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-20
Lab Order:	N012131	**Collection Date:**	3/12/2014 1:27:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-028B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			**EPA 6020**			
RunID: **ICP7_140314B**	QC Batch: **45222**			PrepDate:	**3/14/2014**		Analyst: **CEI**
Arsenic	3.6	0.027	0.10		µg/L	1	3/14/2014 02:21 PM
Chromium	5.1	0.030	1.0		µg/L	1	3/14/2014 02:21 PM
Manganese	64	0.026	0.50		µg/L	1	3/14/2014 02:21 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-20
Lab Order:	N012131	**Collection Date:**	3/12/2014 1:27:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-028C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	3.5	0.024	0.20		µg/L	1	3/17/2014 11:57 AM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-20D1
Lab Order:	N012131	**Collection Date:**	3/7/2014 1:24:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-029A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 01:03 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 01:03 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 01:03 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 01:03 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 01:03 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 01:03 PM
Tetrachloroethene	76	0.12	0.50		µg/L	1	3/18/2014 01:03 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 01:03 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 01:03 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 01:03 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 01:03 PM
Surr: 1,2-Dichloroethane-d4	100	0	76-124		%REC	1	3/18/2014 01:03 PM
Surr: 4-Bromofluorobenzene	95.1	0	80-120		%REC	1	3/18/2014 01:03 PM
Surr: Dibromofluoromethane	99.0	0	80-124		%REC	1	3/18/2014 01:03 PM
Surr: Toluene-d8	95.3	0	80-120		%REC	1	3/18/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-20D2
Lab Order:	N012131	**Collection Date:**	3/7/2014 11:15:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-030A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 01:25 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 01:25 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 01:25 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 01:25 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 01:25 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 01:25 PM
Tetrachloroethene	11	0.12	0.50		µg/L	1	3/18/2014 01:25 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 01:25 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 01:25 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 01:25 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 01:25 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/18/2014 01:25 PM
Surr: 4-Bromofluorobenzene	94.0	0	80-120		%REC	1	3/18/2014 01:25 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/18/2014 01:25 PM
Surr: Toluene-d8	95.6	0	80-120		%REC	1	3/18/2014 01:25 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-20D3
Lab Order:	N012131	**Collection Date:**	3/7/2014 10:20:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-031A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140318A**	QC Batch: **P14VW048**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 08:50 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 08:50 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 08:50 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 08:50 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 08:50 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 08:50 PM
Tetrachloroethene	7.9	0.12	0.50		µg/L	1	3/19/2014 02:57 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 08:50 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 08:50 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 08:50 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 08:50 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/19/2014 02:57 PM
Surr: 1,2-Dichloroethane-d4	101	0	76-124		%REC	1	3/18/2014 08:50 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	3/19/2014 02:57 PM
Surr: 4-Bromofluorobenzene	99.8	0	80-120		%REC	1	3/18/2014 08:50 PM
Surr: Dibromofluoromethane	98.9	0	80-124		%REC	1	3/18/2014 08:50 PM
Surr: Dibromofluoromethane	100	0	80-124		%REC	1	3/19/2014 02:57 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	3/19/2014 02:57 PM
Surr: Toluene-d8	98.8	0	80-120		%REC	1	3/18/2014 08:50 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-21
Lab Order:	N012131	**Collection Date:**	3/12/2014 11:31:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-032A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140319A**	QC Batch: **Q14VW012**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 04:06 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 04:06 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 04:06 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 04:06 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 04:06 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 04:06 PM
Tetrachloroethene	1.4	0.12	0.50		µg/L	1	3/19/2014 04:06 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 04:06 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 04:06 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 04:06 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 04:06 PM
Surr: 1,2-Dichloroethane-d4	115	0	76-124		%REC	1	3/19/2014 04:06 PM
Surr: 4-Bromofluorobenzene	95.4	0	80-120		%REC	1	3/19/2014 04:06 PM
Surr: Dibromofluoromethane	109	0	80-124		%REC	1	3/19/2014 04:06 PM
Surr: Toluene-d8	99.6	0	80-120		%REC	1	3/19/2014 04:06 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-22
Lab Order:	N012131	**Collection Date:**	3/11/2014 1:14:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-033A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140318A**	QC Batch: **Q14VW010**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 04:19 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 04:19 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 04:19 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 04:19 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 04:19 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 04:19 PM
Tetrachloroethene	0.58	0.12	0.50		µg/L	1	3/18/2014 04:19 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 04:19 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 04:19 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 04:19 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 04:19 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/18/2014 04:19 PM
Surr: 4-Bromofluorobenzene	98.5	0	80-120		%REC	1	3/18/2014 04:19 PM
Surr: Dibromofluoromethane	106	0	80-124		%REC	1	3/18/2014 04:19 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	3/18/2014 04:19 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-23
Lab Order:	N012131	**Collection Date:**	3/13/2014 12:20:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-034A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 11:04 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 11:04 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 11:04 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 11:04 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 11:04 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 11:04 PM
Tetrachloroethene	170	2.3	10		µg/L	20	3/19/2014 07:47 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 11:04 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 11:04 PM
Trichloroethene	0.63	0.075	0.50		µg/L	1	3/19/2014 11:04 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 11:04 PM
Surr: 1,2-Dichloroethane-d4	113	0	76-124		%REC	20	3/19/2014 07:47 PM
Surr: 1,2-Dichloroethane-d4	117	0	76-124		%REC	1	3/19/2014 11:04 PM
Surr: 4-Bromofluorobenzene	96.6	0	80-120		%REC	20	3/19/2014 07:47 PM
Surr: 4-Bromofluorobenzene	96.0	0	80-120		%REC	1	3/19/2014 11:04 PM
Surr: Dibromofluoromethane	114	0	80-124		%REC	1	3/19/2014 11:04 PM
Surr: Dibromofluoromethane	112	0	80-124		%REC	20	3/19/2014 07:47 PM
Surr: Toluene-d8	104	0	80-120		%REC	20	3/19/2014 07:47 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	3/19/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-24
Lab Order:	N012131	**Collection Date:**	3/11/2014 10:24:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-035A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140318A**	QC Batch: **Q14VW010**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 04:41 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 04:41 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 04:41 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 04:41 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 04:41 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 04:41 PM
Tetrachloroethene	2.0	0.12	0.50		µg/L	1	3/18/2014 04:41 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 04:41 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 04:41 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 04:41 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 04:41 PM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/18/2014 04:41 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/18/2014 04:41 PM
Surr: Dibromofluoromethane	107	0	80-124		%REC	1	3/18/2014 04:41 PM
Surr: Toluene-d8	104	0	80-120		%REC	1	3/18/2014 04:41 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-25
Lab Order:	N012131	**Collection Date:**	3/13/2014 9:37:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-036A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 11:26 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 11:26 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 11:26 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 11:26 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 11:26 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 11:26 PM
Tetrachloroethene	340	2.3	10		µg/L	20	3/19/2014 08:09 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 11:26 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 11:26 PM
Trichloroethene	0.61	0.075	0.50		µg/L	1	3/19/2014 11:26 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 11:26 PM
Surr: 1,2-Dichloroethane-d4	118	0	76-124		%REC	20	3/19/2014 08:09 PM
Surr: 1,2-Dichloroethane-d4	116	0	76-124		%REC	1	3/19/2014 11:26 PM
Surr: 4-Bromofluorobenzene	96.6	0	80-120		%REC	20	3/19/2014 08:09 PM
Surr: 4-Bromofluorobenzene	98.4	0	80-120		%REC	1	3/19/2014 11:26 PM
Surr: Dibromofluoromethane	113	0	80-124		%REC	1	3/19/2014 11:26 PM
Surr: Dibromofluoromethane	118	0	80-124		%REC	20	3/19/2014 08:09 PM
Surr: Toluene-d8	103	0	80-120		%REC	20	3/19/2014 08:09 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	3/19/2014 11:26 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-26
Lab Order:	N012131	**Collection Date:**	3/13/2014 10:30:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-037A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 11:48 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 11:48 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 11:48 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 11:48 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 11:48 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 11:48 PM
Tetrachloroethene	210	1.2	5.0		µg/L	10	3/19/2014 08:31 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 11:48 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 11:48 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 11:48 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 11:48 PM
Surr: 1,2-Dichloroethane-d4	99.0	0	76-124		%REC	10	3/19/2014 08:31 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	1	3/19/2014 11:48 PM
Surr: 4-Bromofluorobenzene	90.4	0	80-120		%REC	10	3/19/2014 08:31 PM
Surr: 4-Bromofluorobenzene	89.0	0	80-120		%REC	1	3/19/2014 11:48 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/19/2014 11:48 PM
Surr: Dibromofluoromethane	97.6	0	80-124		%REC	10	3/19/2014 08:31 PM
Surr: Toluene-d8	95.6	0	80-120		%REC	10	3/19/2014 08:31 PM
Surr: Toluene-d8	94.0	0	80-120		%REC	1	3/19/2014 11:48 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-27
Lab Order:	N012131	**Collection Date:**	3/11/2014 2:12:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-038A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 09:58 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 09:58 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 09:58 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 09:58 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 09:58 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 09:58 PM
Tetrachloroethene	220	1.2	5.0		µg/L	10	3/18/2014 08:51 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 09:58 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 09:58 PM
Trichloroethene	0.59	0.075	0.50		µg/L	1	3/19/2014 09:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 09:58 PM
Surr: 1,2-Dichloroethane-d4	98.6	0	76-124		%REC	10	3/18/2014 08:51 PM
Surr: 1,2-Dichloroethane-d4	116	0	76-124		%REC	1	3/19/2014 09:58 PM
Surr: 4-Bromofluorobenzene	92.8	0	80-120		%REC	10	3/18/2014 08:51 PM
Surr: 4-Bromofluorobenzene	95.9	0	80-120		%REC	1	3/19/2014 09:58 PM
Surr: Dibromofluoromethane	113	0	80-124		%REC	1	3/19/2014 09:58 PM
Surr: Dibromofluoromethane	92.3	0	80-124		%REC	10	3/18/2014 08:51 PM
Surr: Toluene-d8	99.2	0	80-120		%REC	10	3/18/2014 08:51 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	3/19/2014 09:58 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-28
Lab Order:	N012131	**Collection Date:**	3/11/2014 9:34:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-039A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 12:58 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 12:58 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 12:58 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 12:58 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 12:58 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 12:58 PM
Tetrachloroethene	0.69	0.12	0.50		µg/L	1	3/19/2014 12:58 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 12:58 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 12:58 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 12:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 12:58 PM
Surr: 1,2-Dichloroethane-d4	111	0	76-124		%REC	1	3/19/2014 12:58 PM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	3/19/2014 12:58 PM
Surr: Dibromofluoromethane	107	0	80-124		%REC	1	3/19/2014 12:58 PM
Surr: Toluene-d8	104	0	80-120		%REC	1	3/19/2014 12:58 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-29
Lab Order:	N012131	**Collection Date:**	3/11/2014 8:47:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-040A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 01:33 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 01:33 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 01:33 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 01:33 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 01:33 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 01:33 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 01:33 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 01:33 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 01:33 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 01:33 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 01:33 PM
Surr: 1,2-Dichloroethane-d4	119	0	76-124		%REC	1	3/19/2014 01:33 PM
Surr: 4-Bromofluorobenzene	97.9	0	80-120		%REC	1	3/19/2014 01:33 PM
Surr: Dibromofluoromethane	114	0	80-124		%REC	1	3/19/2014 01:33 PM
Surr: Toluene-d8	104	0	80-120		%REC	1	3/19/2014 01:33 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-30
Lab Order:	N012131	**Collection Date:**	3/10/2014 1:41:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-041A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 01:47 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 01:47 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 01:47 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 01:47 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 01:47 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 01:47 PM
Tetrachloroethene	42	0.12	0.50		µg/L	1	3/18/2014 01:47 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 01:47 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 01:47 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 01:47 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 01:47 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/18/2014 01:47 PM
Surr: 4-Bromofluorobenzene	92.1	0	80-120		%REC	1	3/18/2014 01:47 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/18/2014 01:47 PM
Surr: Toluene-d8	95.5	0	80-120		%REC	1	3/18/2014 01:47 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-31
Lab Order:	N012131	**Collection Date:**	3/10/2014 12:39:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-042A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140318A** QC Batch: **P14VW048** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 09:19 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 09:19 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 09:19 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 09:19 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 09:19 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 09:19 PM
Tetrachloroethene	35	0.12	0.50		µg/L	1	3/19/2014 08:53 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 09:19 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 09:19 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 09:19 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 09:19 PM
Surr: 1,2-Dichloroethane-d4	99.9	0	76-124		%REC	1	3/19/2014 08:53 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/18/2014 09:19 PM
Surr: 4-Bromofluorobenzene	88.8	0	80-120		%REC	1	3/19/2014 08:53 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/18/2014 09:19 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/18/2014 09:19 PM
Surr: Dibromofluoromethane	99.8	0	80-124		%REC	1	3/19/2014 08:53 PM
Surr: Toluene-d8	94.6	0	80-120		%REC	1	3/19/2014 08:53 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	3/18/2014 09:19 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-32
Lab Order:	N012131	**Collection Date:**	3/11/2014 3:05:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-043A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140319A** QC Batch: **Q14VW012** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/20/2014 12:09 AM
Benzene	ND	0.048	0.50		µg/L	1	3/20/2014 12:09 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/20/2014 12:09 AM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/20/2014 12:09 AM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/20/2014 12:09 AM
o-Xylene	ND	0.042	0.50		µg/L	1	3/20/2014 12:09 AM
Tetrachloroethene	640	1.2	5.0		µg/L	10	3/19/2014 09:15 PM
Toluene	ND	0.034	0.50		µg/L	1	3/20/2014 12:09 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/20/2014 12:09 AM
Trichloroethene	12	0.075	0.50		µg/L	1	3/20/2014 12:09 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/20/2014 12:09 AM
Surr: 1,2-Dichloroethane-d4	114	0	76-124		%REC	10	3/19/2014 09:15 PM
Surr: 1,2-Dichloroethane-d4	119	0	76-124		%REC	1	3/20/2014 12:09 AM
Surr: 4-Bromofluorobenzene	95.9	0	80-120		%REC	10	3/19/2014 09:15 PM
Surr: 4-Bromofluorobenzene	95.3	0	80-120		%REC	1	3/20/2014 12:09 AM
Surr: Dibromofluoromethane	117	0	80-124		%REC	1	3/20/2014 12:09 AM
Surr: Dibromofluoromethane	115	0	80-124		%REC	10	3/19/2014 09:15 PM
Surr: Toluene-d8	103	0	80-120		%REC	10	3/19/2014 09:15 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	3/20/2014 12:09 AM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-33
Lab Order:	N012131	**Collection Date:**	3/11/2014 11:20:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-044A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140318A** QC Batch: **P14VW048** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 07:51 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 07:51 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 07:51 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 07:51 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 07:51 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 07:51 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 11:30 AM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 07:51 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 07:51 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 07:51 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 07:51 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/19/2014 11:30 AM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/18/2014 07:51 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	3/19/2014 11:30 AM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/18/2014 07:51 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/18/2014 07:51 PM
Surr: Dibromofluoromethane	99.5	0	80-124		%REC	1	3/19/2014 11:30 AM
Surr: Toluene-d8	99.1	0	80-120		%REC	1	3/19/2014 11:30 AM
Surr: Toluene-d8	99.1	0	80-120		%REC	1	3/18/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-34
Lab Order:	N012131	**Collection Date:**	3/3/2014 2:55:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-045A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140313A**	QC Batch: **P14VW044**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/14/2014 12:28 AM
Benzene	ND	0.048	0.50		µg/L	1	3/14/2014 12:28 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/14/2014 12:28 AM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/14/2014 12:28 AM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/14/2014 12:28 AM
o-Xylene	ND	0.042	0.50		µg/L	1	3/14/2014 12:28 AM
Tetrachloroethene	360	1.2	5.0		µg/L	10	3/14/2014 09:47 PM
Toluene	ND	0.034	0.50		µg/L	1	3/14/2014 12:28 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/14/2014 12:28 AM
Trichloroethene	0.73	0.075	0.50		µg/L	1	3/14/2014 12:28 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/14/2014 12:28 AM
Surr: 1,2-Dichloroethane-d4	109	0	76-124		%REC	10	3/14/2014 09:47 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/14/2014 12:28 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	10	3/14/2014 09:47 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	3/14/2014 12:28 AM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/14/2014 12:28 AM
Surr: Dibromofluoromethane	104	0	80-124		%REC	10	3/14/2014 09:47 PM
Surr: Toluene-d8	89.9	0	80-120		%REC	10	3/14/2014 09:47 PM
Surr: Toluene-d8	96.6	0	80-120		%REC	1	3/14/2014 12:28 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-35
Lab Order:	N012131	**Collection Date:**	3/3/2014 2:07:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-046A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140313A**	QC Batch: **P14VW044**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/13/2014 11:58 PM
Benzene	ND	0.048	0.50		µg/L	1	3/13/2014 11:58 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/13/2014 11:58 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/13/2014 11:58 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/13/2014 11:58 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/13/2014 11:58 PM
Tetrachloroethene	92	1.2	5.0		µg/L	10	3/15/2014 11:18 AM
Toluene	ND	0.034	0.50		µg/L	1	3/13/2014 11:58 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/13/2014 11:58 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/13/2014 11:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/13/2014 11:58 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	10	3/15/2014 11:18 AM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/13/2014 11:58 PM
Surr: 4-Bromofluorobenzene	97.6	0	80-120		%REC	10	3/15/2014 11:18 AM
Surr: 4-Bromofluorobenzene	97.2	0	80-120		%REC	1	3/13/2014 11:58 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/13/2014 11:58 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	10	3/15/2014 11:18 AM
Surr: Toluene-d8	103	0	80-120		%REC	10	3/15/2014 11:18 AM
Surr: Toluene-d8	110	0	80-120		%REC	1	3/13/2014 11:58 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-36
Lab Order:	N012131	**Collection Date:**	3/10/2014 2:42:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-047A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 03:57 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 03:57 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 03:57 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 03:57 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 03:57 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 03:57 PM
Tetrachloroethene	62	0.12	0.50		µg/L	1	3/18/2014 03:57 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 03:57 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 03:57 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 03:57 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 03:57 PM
Surr: 1,2-Dichloroethane-d4	98.1	0	76-124		%REC	1	3/18/2014 03:57 PM
Surr: 4-Bromofluorobenzene	85.3	0	80-120		%REC	1	3/18/2014 03:57 PM
Surr: Dibromofluoromethane	94.1	0	80-124		%REC	1	3/18/2014 03:57 PM
Surr: Toluene-d8	91.3	0	80-120		%REC	1	3/18/2014 03:57 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-37
Lab Order:	N012131	**Collection Date:**	3/10/2014 11:42:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-048A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140318A**	QC Batch: **P14VW048**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 05:24 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 05:24 PM
Tetrachloroethene	30	0.12	0.50		µg/L	1	3/19/2014 06:30 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 05:24 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 05:24 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 05:24 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	1	3/19/2014 06:30 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	1	3/18/2014 05:24 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/19/2014 06:30 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/18/2014 05:24 PM
Surr: Dibromofluoromethane	100	0	80-124		%REC	1	3/19/2014 06:30 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/18/2014 05:24 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	3/19/2014 06:30 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	3/18/2014 05:24 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-38
Lab Order:	N012131	**Collection Date:**	3/10/2014 10:47:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-049A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140318A** QC Batch: **P14VW048** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 05:53 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 05:53 PM
Tetrachloroethene	7.3	0.12	0.50		µg/L	1	3/19/2014 06:00 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 05:53 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 05:53 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 05:53 PM
Surr: 1,2-Dichloroethane-d4	98.6	0	76-124		%REC	1	3/19/2014 06:00 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/18/2014 05:53 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/19/2014 06:00 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/18/2014 05:53 PM
Surr: Dibromofluoromethane	98.2	0	80-124		%REC	1	3/19/2014 06:00 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/18/2014 05:53 PM
Surr: Toluene-d8	99.9	0	80-120		%REC	1	3/19/2014 06:00 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	3/18/2014 05:53 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-39
Lab Order:	N012131	**Collection Date:**	3/10/2014 3:32:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-050A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 05:03 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 05:03 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 05:03 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 05:03 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 05:03 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 05:03 PM
Tetrachloroethene	59	0.12	0.50		µg/L	1	3/18/2014 05:03 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 05:03 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 05:03 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 05:03 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 05:03 PM
Surr: 1,2-Dichloroethane-d4	96.8	0	76-124		%REC	1	3/18/2014 05:03 PM
Surr: 4-Bromofluorobenzene	93.2	0	80-120		%REC	1	3/18/2014 05:03 PM
Surr: Dibromofluoromethane	96.6	0	80-124		%REC	1	3/18/2014 05:03 PM
Surr: Toluene-d8	95.0	0	80-120		%REC	1	3/18/2014 05:03 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-30
Lab Order:	N012131	**Collection Date:**	3/6/2014 10:12:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-051A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140317A** QC Batch: **P14VW047** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/17/2014 04:41 PM
Benzene	ND	0.048	0.50		µg/L	1	3/17/2014 04:41 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/17/2014 04:41 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/17/2014 04:41 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/17/2014 04:41 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/17/2014 04:41 PM
Tetrachloroethene	4.5	0.12	0.50		µg/L	1	3/17/2014 04:41 PM
Toluene	ND	0.034	0.50		µg/L	1	3/17/2014 04:41 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/17/2014 04:41 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/17/2014 04:41 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/17/2014 04:41 PM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/17/2014 04:41 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/17/2014 04:41 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/17/2014 04:41 PM
Surr: Toluene-d8	94.5	0	80-120		%REC	1	3/17/2014 04:41 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-30
Lab Order:	N012131	**Collection Date:**	3/6/2014 10:12:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-051B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A				**EPA 6020**		
RunID: **ICP7_140314B**	QC Batch: **45222**				PrepDate:	**3/14/2014**	Analyst: **CEI**
Arsenic	3.6	0.027	0.10		µg/L	1	3/14/2014 02:38 PM
Chromium	15	0.030	1.0		µg/L	1	3/14/2014 02:38 PM
Manganese	83	0.026	0.50		µg/L	1	3/14/2014 02:38 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.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-30
Lab Order:	N012131	**Collection Date:**	3/6/2014 10:12:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-051C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	17	0.024	0.20		µg/L	1	3/17/2014 02:06 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 CMT-35
Lab Order:	N012131	**Collection Date:**	3/6/2014 11:05:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-052A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140318A**	QC Batch: **P14VW048**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 06:23 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 06:23 PM
Tetrachloroethene	2.6	0.12	0.50		µg/L	1	3/19/2014 12:00 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 06:23 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 06:23 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 06:23 PM
Surr: 1,2-Dichloroethane-d4	102	0	76-124		%REC	1	3/19/2014 12:00 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/18/2014 06:23 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	3/19/2014 12:00 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/18/2014 06:23 PM
Surr: Dibromofluoromethane	99.4	0	80-124		%REC	1	3/19/2014 12:00 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/18/2014 06:23 PM
Surr: Toluene-d8	99.8	0	80-120		%REC	1	3/19/2014 12:00 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	3/18/2014 06:23 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-35
Lab Order:	N012131	**Collection Date:**	3/6/2014 11:05:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-052B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_140314B**	QC Batch: **45222**				PrepDate:	**3/14/2014**	Analyst: **CEI**
Arsenic	4.6	0.027	0.10		µg/L	1	3/14/2014 02:44 PM
Chromium	ND	0.030	1.0		µg/L	1	3/14/2014 02:44 PM
Manganese	370	0.13	2.5		µg/L	5	3/14/2014 03:28 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.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-35
Lab Order:	N012131	**Collection Date:**	3/6/2014 11:05:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-052C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	0.31	0.024	0.20		µg/L	1	3/17/2014 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		

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-40
Lab Order:	N012131	**Collection Date:**	3/6/2014 11:59:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-053A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140318A** QC Batch: **P14VW048** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 11:17 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 11:17 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 11:17 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 11:17 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 11:17 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 11:17 PM
Tetrachloroethene	27	0.12	0.50		µg/L	1	3/19/2014 12:29 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 11:17 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 11:17 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 11:17 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 11:17 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/19/2014 12:29 PM
Surr: 1,2-Dichloroethane-d4	100	0	76-124		%REC	1	3/18/2014 11:17 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/19/2014 12:29 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	3/18/2014 11:17 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/18/2014 11:17 PM
Surr: Dibromofluoromethane	100	0	80-124		%REC	1	3/19/2014 12:29 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	3/19/2014 12:29 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	3/18/2014 11:17 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.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-40
Lab Order:	N012131	**Collection Date:**	3/6/2014 11:59:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-053B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			**EPA 6020**			
RunID: **ICP7_140314B**	QC Batch: **45222**			PrepDate:	**3/14/2014**		Analyst: **CEI**
Arsenic	1.9	0.027	0.10		µg/L	1	3/14/2014 02:49 PM
Chromium	1.3	0.030	1.0		µg/L	1	3/14/2014 02:49 PM
Manganese	360	0.13	2.5		µg/L	5	3/14/2014 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		

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-40
Lab Order:	N012131	**Collection Date:**	3/6/2014 11:59:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-053C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	2.0	0.024	0.20		µg/L	1	3/17/2014 02:16 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 CMT-45
Lab Order:	N012131	**Collection Date:**	3/6/2014 12:45:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-054A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS6_140318A**	QC Batch: **Q14VW010**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 02:52 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 02:52 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 02:52 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 02:52 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 02:52 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 02:52 PM
Tetrachloroethene	24	0.12	0.50		µg/L	1	3/18/2014 02:52 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 02:52 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 02:52 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 02:52 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 02:52 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/18/2014 02:52 PM
Surr: 4-Bromofluorobenzene	98.8	0	80-120		%REC	1	3/18/2014 02:52 PM
Surr: Dibromofluoromethane	109	0	80-124		%REC	1	3/18/2014 02:52 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	3/18/2014 02:52 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.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-45
Lab Order:	N012131	**Collection Date:**	3/6/2014 12:45:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-054B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			**EPA 6020**			
RunID: **ICP7_140314B**	QC Batch: **45222**			PrepDate:	**3/14/2014**		Analyst: **CEI**
Arsenic	1.8	0.027	0.10		µg/L	1	3/14/2014 02:55 PM
Chromium	4.0	0.030	1.0		µg/L	1	3/14/2014 02:55 PM
Manganese	160	0.026	0.50		µg/L	1	3/14/2014 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		

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CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-45
Lab Order:	N012131	**Collection Date:**	3/6/2014 12:45:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-054C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	5.1	0.024	0.20		µg/L	1	3/17/2014 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-50
Lab Order:	N012131	**Collection Date:**	3/6/2014 1:50:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-055A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 03:14 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 03:14 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 03:14 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 03:14 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 03:14 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 03:14 PM
Tetrachloroethene	72	0.12	0.50		µg/L	1	3/18/2014 03:14 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 03:14 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 03:14 PM
Trichloroethene	0.89	0.075	0.50		µg/L	1	3/18/2014 03:14 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 03:14 PM
Surr: 1,2-Dichloroethane-d4	109	0	76-124		%REC	1	3/18/2014 03:14 PM
Surr: 4-Bromofluorobenzene	98.5	0	80-120		%REC	1	3/18/2014 03:14 PM
Surr: Dibromofluoromethane	107	0	80-124		%REC	1	3/18/2014 03:14 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	3/18/2014 03:14 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-50
Lab Order:	N012131	**Collection Date:**	3/6/2014 1:50:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-055B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A				**EPA 6020**		
RunID: **ICP7_140314B**	QC Batch: **45222**				PrepDate:	**3/14/2014**	Analyst: **CEI**
Arsenic	2.0	0.027	0.10		µg/L	1	3/14/2014 03:00 PM
Chromium	ND	0.030	1.0		µg/L	1	3/14/2014 03:00 PM
Manganese	120	0.026	0.50		µg/L	1	3/14/2014 03:00 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.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-50
Lab Order:	N012131	**Collection Date:**	3/6/2014 1:50:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-055C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	0.25	0.024	0.20		µg/L	1	3/17/2014 12:47 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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CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-55
Lab Order:	N012131	**Collection Date:**	3/6/2014 2:12:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-056A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 02:08 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 02:08 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 02:08 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 02:08 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 02:08 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 02:08 PM
Tetrachloroethene	130	0.59	2.5		µg/L	5	3/17/2014 08:46 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 02:08 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 02:08 PM
Trichloroethene	3.1	0.075	0.50		µg/L	1	3/18/2014 02:08 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 02:08 PM
Surr: 1,2-Dichloroethane-d4	105	0	76-124		%REC	5	3/17/2014 08:46 PM
Surr: 1,2-Dichloroethane-d4	108	0	76-124		%REC	1	3/18/2014 02:08 PM
Surr: 4-Bromofluorobenzene	95.5	0	80-120		%REC	5	3/17/2014 08:46 PM
Surr: 4-Bromofluorobenzene	94.7	0	80-120		%REC	1	3/18/2014 02:08 PM
Surr: Dibromofluoromethane	107	0	80-124		%REC	1	3/18/2014 02:08 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	5	3/17/2014 08:46 PM
Surr: Toluene-d8	96.3	0	80-120		%REC	5	3/17/2014 08:46 PM
Surr: Toluene-d8	96.2	0	80-120		%REC	1	3/18/2014 02:08 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-55
Lab Order:	N012131	**Collection Date:**	3/6/2014 2:12:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-056B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			**EPA 6020**			
RunID: **ICP7_140314B**	QC Batch: **45222**			PrepDate:	**3/14/2014**		Analyst: **CEI**
Arsenic	1.2	0.027	0.10		µg/L	1	3/14/2014 03:06 PM
Chromium	4.7	0.030	1.0		µg/L	1	3/14/2014 03:06 PM
Manganese	380	0.13	2.5		µg/L	5	3/14/2014 03:50 PM

Qualifiers:

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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-55
Lab Order:	N012131	**Collection Date:**	3/6/2014 2:12:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-056C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	5.1	0.024	0.20		µg/L	1	3/17/2014 12:57 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		

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CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-60
Lab Order:	N012131	**Collection Date:**	3/6/2014 1:20:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-057A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS6_140318A** QC Batch: **Q14VW010** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 05:24 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 05:24 PM
cis-1,2-Dichloroethene	2.2	0.057	0.50		µg/L	1	3/18/2014 05:24 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 05:24 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 05:24 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 05:24 PM
Tetrachloroethene	360	1.2	5.0		µg/L	10	3/17/2014 09:08 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 05:24 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 05:24 PM
Trichloroethene	6.5	0.075	0.50		µg/L	1	3/18/2014 05:24 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 05:24 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	10	3/17/2014 09:08 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/18/2014 05:24 PM
Surr: 4-Bromofluorobenzene	95.6	0	80-120		%REC	10	3/17/2014 09:08 PM
Surr: 4-Bromofluorobenzene	95.1	0	80-120		%REC	1	3/18/2014 05:24 PM
Surr: Dibromofluoromethane	104	0	80-124		%REC	1	3/18/2014 05:24 PM
Surr: Dibromofluoromethane	99.9	0	80-124		%REC	10	3/17/2014 09:08 PM
Surr: Toluene-d8	95.9	0	80-120		%REC	10	3/17/2014 09:08 PM
Surr: Toluene-d8	98.7	0	80-120		%REC	1	3/18/2014 05:24 PM

Qualifiers:

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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-60
Lab Order:	N012131	**Collection Date:**	3/6/2014 1:20:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-057B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			**EPA 6020**			
RunID: **ICP7_140314B**	QC Batch: **45222**			PrepDate:	**3/14/2014**		Analyst: **CEI**
Arsenic	1.3	0.027	0.10		µg/L	1	3/14/2014 03:11 PM
Chromium	4.4	0.030	1.0		µg/L	1	3/14/2014 03:11 PM
Manganese	470	0.13	2.5		µg/L	5	3/14/2014 04:06 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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ANALYTICAL RESULTS

Print Date: *20-Mar-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-60
Lab Order:	N012131	**Collection Date:**	3/6/2014 1:20:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-057C		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_140317A**	QC Batch: **R92781**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	1.3	0.024	0.20		µg/L	1	3/17/2014 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		

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CLIENT:	Cardno ATC	**Client Sample ID:**	MW-41
Lab Order:	N012131	**Collection Date:**	3/10/2014 9:58:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-058A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140318A**	QC Batch: **P14VW048**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 06:52 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 06:52 PM
Tetrachloroethene	2.1	0.12	0.50		µg/L	1	3/19/2014 02:16 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 06:52 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 06:52 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 06:52 PM
Surr: 1,2-Dichloroethane-d4	99.7	0	76-124		%REC	1	3/19/2014 02:16 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/18/2014 06:52 PM
Surr: 4-Bromofluorobenzene	83.9	0	80-120		%REC	1	3/19/2014 02:16 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/18/2014 06:52 PM
Surr: Dibromofluoromethane	98.6	0	80-124		%REC	1	3/19/2014 02:16 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/18/2014 06:52 PM
Surr: Toluene-d8	91.2	0	80-120		%REC	1	3/19/2014 02:16 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	3/18/2014 06:52 PM

Qualifiers:

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

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-42
Lab Order:	N012131	**Collection Date:**	3/10/2014 9:04:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-059A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140318A**	QC Batch: **P14VW048**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 07:21 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 07:21 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 07:21 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 07:21 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 07:21 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 07:21 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 03:44 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 07:21 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 07:21 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 07:21 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 07:21 PM
Surr: 1,2-Dichloroethane-d4	104	0	76-124		%REC	1	3/19/2014 03:44 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/18/2014 07:21 PM
Surr: 4-Bromofluorobenzene	89.8	0	80-120		%REC	1	3/19/2014 03:44 PM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	3/18/2014 07:21 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/18/2014 07:21 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/19/2014 03:44 PM
Surr: Toluene-d8	97.4	0	80-120		%REC	1	3/19/2014 03:44 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	3/18/2014 07:21 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-43
Lab Order:	N012131	**Collection Date:**	3/11/2014 12:10:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-060A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_140318A** QC Batch: **P14VW048** PrepDate: Analyst: **PN**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/18/2014 08:20 PM
Benzene	ND	0.048	0.50		µg/L	1	3/18/2014 08:20 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/18/2014 08:20 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/18/2014 08:20 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/18/2014 08:20 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/18/2014 08:20 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 12:59 PM
Toluene	ND	0.034	0.50		µg/L	1	3/18/2014 08:20 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/18/2014 08:20 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/18/2014 08:20 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/18/2014 08:20 PM
Surr: 1,2-Dichloroethane-d4	107	0	76-124		%REC	1	3/19/2014 12:59 PM
Surr: 1,2-Dichloroethane-d4	106	0	76-124		%REC	1	3/18/2014 08:20 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/19/2014 12:59 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	3/18/2014 08:20 PM
Surr: Dibromofluoromethane	102	0	80-124		%REC	1	3/18/2014 08:20 PM
Surr: Dibromofluoromethane	103	0	80-124		%REC	1	3/19/2014 12:59 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	3/19/2014 12:59 PM
Surr: Toluene-d8	99.1	0	80-120		%REC	1	3/18/2014 08:20 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	Trip Blank
Lab Order:	N012131	**Collection Date:**	3/13/2014 7:15:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-061A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140319A**	QC Batch: **P14VW049**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 01:28 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 01:28 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 01:28 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 01:28 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 01:28 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 01:28 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 01:28 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 01:28 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 01:28 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 01:28 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 01:28 PM
Surr: 1,2-Dichloroethane-d4	101	0	76-124		%REC	1	3/19/2014 01:28 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/19/2014 01:28 PM
Surr: Dibromofluoromethane	101	0	80-124		%REC	1	3/19/2014 01:28 PM
Surr: Toluene-d8	99.3	0	80-120		%REC	1	3/19/2014 01:28 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	Field Blank
Lab Order:	N012131	**Collection Date:**	3/13/2014 12:30:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-062A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140319A**	QC Batch: **P14VW049**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 01:58 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 01:58 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 01:58 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 01:58 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 01:58 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 01:58 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 01:58 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 01:58 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 01:58 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 01:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 01:58 PM
Surr: 1,2-Dichloroethane-d4	103	0	76-124		%REC	1	3/19/2014 01:58 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/19/2014 01:58 PM
Surr: Dibromofluoromethane	99.8	0	80-124		%REC	1	3/19/2014 01:58 PM
Surr: Toluene-d8	99.3	0	80-120		%REC	1	3/19/2014 01:58 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		

CLIENT:	Cardno ATC	**Client Sample ID:**	Equip Rinse
Lab Order:	N012131	**Collection Date:**	3/13/2014 12:50:00 PM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N012131-063A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140319A**	QC Batch: **P14VW049**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	3/19/2014 02:27 PM
Benzene	ND	0.048	0.50		µg/L	1	3/19/2014 02:27 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	3/19/2014 02:27 PM
Ethylbenzene	ND	0.036	0.50		µg/L	1	3/19/2014 02:27 PM
m,p-Xylene	ND	0.14	1.0		µg/L	1	3/19/2014 02:27 PM
o-Xylene	ND	0.042	0.50		µg/L	1	3/19/2014 02:27 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	3/19/2014 02:27 PM
Toluene	ND	0.034	0.50		µg/L	1	3/19/2014 02:27 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	3/19/2014 02:27 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	3/19/2014 02:27 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	3/19/2014 02:27 PM
Surr: 1,2-Dichloroethane-d4	99.8	0	76-124		%REC	1	3/19/2014 02:27 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	3/19/2014 02:27 PM
Surr: Dibromofluoromethane	98.1	0	80-124		%REC	1	3/19/2014 02:27 PM
Surr: Toluene-d8	98.8	0	80-120		%REC	1	3/19/2014 02:27 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		

CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_W

Sample ID: **MB-R92781**	SampType: **MBLK**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **92781**
Client ID: **PBW**	Batch ID: **R92781**	TestNo: **EPA 218.6**		Analysis Date: **3/17/2014**	SeqNo: **1748722**

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-R92781**	SampType: **LCS**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **92781**
Client ID: **LCSW**	Batch ID: **R92781**	TestNo: **EPA 218.6**		Analysis Date: **3/17/2014**	SeqNo: **1748723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.037	0.20	5.000	0	101	90	110				

Sample ID: **N012131-023C-DUP**	SampType: **DUP**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **92781**
Client ID: **ZZZZZZ**	Batch ID: **R92781**	TestNo: **EPA 218.6**		Analysis Date: **3/17/2014**	SeqNo: **1748733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.033	0.20						1.980	2.65	20	

Sample ID: **N012131-023C-MS**	SampType: **MS**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **92781**
Client ID: **ZZZZZZ**	Batch ID: **R92781**	TestNo: **EPA 218.6**		Analysis Date: **3/17/2014**	SeqNo: **1748734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.067	0.20	5.000	1.980	102	90	110				

Sample ID: **N012131-023C-MSD**	SampType: **MSD**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **92781**
Client ID: **ZZZZZZ**	Batch ID: **R92781**	TestNo: **EPA 218.6**		Analysis Date: **3/17/2014**	SeqNo: **1748735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.057	0.20	5.000	1.980	102	90	110	7.067	0.143	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS

Sample ID: **MB-45222**	SampType: **MBLK**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **3/14/2014**	RunNo: **92752**
Client ID: **PBW**	Batch ID: **45222**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **3/14/2014**	SeqNo: **1746798**

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-45222**	SampType: **LCS**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **3/14/2014**	RunNo: **92752**
Client ID: **LCSW**	Batch ID: **45222**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **3/14/2014**	SeqNo: **1746799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.754	0.10	10.00	0	97.5	85	115				
Chromium	9.626	1.0	10.00	0	96.3	85	115				
Manganese	95.642	0.50	100.0	0	95.6	85	115				

Sample ID: **N012129-001A-MS**	SampType: **MS**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **3/14/2014**	RunNo: **92752**
Client ID: **ZZZZZZ**	Batch ID: **45222**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **3/14/2014**	SeqNo: **1746803**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.168	0.10	10.00	0.04186	91.3	75	125				
Chromium	9.322	1.0	10.00	0.1122	92.1	75	125				
Manganese	91.122	0.50	100.0	0.1299	91.0	75	125				

Sample ID: **N012129-001A-MSD**	SampType: **MSD**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **3/14/2014**	RunNo: **92752**
Client ID: **ZZZZZZ**	Batch ID: **45222**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **3/14/2014**	SeqNo: **1746804**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.229	0.10	10.00	0.04186	91.9	75	125	9.168	0.667	20	
Chromium	9.283	1.0	10.00	0.1122	91.7	75	125	9.322	0.421	20	
Manganese	91.212	0.50	100.0	0.1299	91.1	75	125	91.12	0.0993	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140313LCS**	SampType: **LCS**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92677**
Client ID: **LCSW**	Batch ID: **P14VW044**	TestNo: **EPA 8260B**		Analysis Date: **3/13/2014**	SeqNo: **1746282**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.290	0.50	20.00	0	86.5	71	128				
Benzene	18.140	0.50	20.00	0	90.7	80	120				
cis-1,2-Dichloroethene	19.770	0.50	20.00	0	98.8	77	120				
Ethylbenzene	18.330	0.50	20.00	0	91.7	80	120				
m,p-Xylene	38.720	1.0	40.00	0	96.8	80	120				
o-Xylene	18.550	0.50	20.00	0	92.8	80	120				
Tetrachloroethene	17.400	0.50	20.00	0	87.0	80	120				
Toluene	18.210	0.50	20.00	0	91.1	80	120				
trans-1,2-Dichloroethene	21.610	0.50	20.00	0	108	75	122				
Trichloroethene	19.180	0.50	20.00	0	95.9	80	120				
Vinyl chloride	22.460	0.50	20.00	0	112	66	131				
Surr: 1,2-Dichloroethane-d4	26.710		25.00		107	76	124				
Surr: 4-Bromofluorobenzene	24.360		25.00		97.4	80	120				
Surr: Dibromofluoromethane	26.230		25.00		105	80	124				
Surr: Toluene-d8	24.820		25.00		99.3	80	120				

Sample ID: **P140313MB2**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92677**
Client ID: **PBW**	Batch ID: **P14VW044**	TestNo: **EPA 8260B**		Analysis Date: **3/13/2014**	SeqNo: **1746283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140313MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92677**
Client ID: **PBW** Batch ID: **P14VW044** TestNo: **EPA 8260B** Analysis Date: **3/13/2014** SeqNo: **1746283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	27.230		25.00		109	76	124				
Surr: 4-Bromofluorobenzene	23.780		25.00		95.1	80	120				
Surr: Dibromofluoromethane	26.510		25.00		106	80	124				
Surr: Toluene-d8	27.580		25.00		110	80	120				

Sample ID: **N012112-001AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92677**
Client ID: **ZZZZZZ** Batch ID: **P14VW044** TestNo: **EPA 8260B** Analysis Date: **3/13/2014** SeqNo: **1746286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.980	0.50	20.00	0	89.9	66	134				
Benzene	18.470	0.50	20.00	0	92.4	80	120				
cis-1,2-Dichloroethene	19.740	0.50	20.00	0	98.7	78	121				
Ethylbenzene	18.920	0.50	20.00	0	94.6	80	120				
m,p-Xylene	40.050	1.0	40.00	0	100	80	120				
o-Xylene	20.030	0.50	20.00	0	100	80	120				
Tetrachloroethene	24.210	0.50	20.00	5.020	96.0	62	128				
Toluene	20.220	0.50	20.00	0	101	80	120				
trans-1,2-Dichloroethene	19.770	0.50	20.00	0	98.8	70	128				
Trichloroethene	20.900	0.50	20.00	1.080	99.1	80	120				
Vinyl chloride	24.010	0.50	20.00	0	120	63	138				
Surr: 1,2-Dichloroethane-d4	26.990		25.00		108	76	124				
Surr: 4-Bromofluorobenzene	29.120		25.00		116	80	120				
Surr: Dibromofluoromethane	25.990		25.00		104	80	124				
Surr: Toluene-d8	26.720		25.00		107	80	120				

Sample ID: **P140313LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92677**
Client ID: **LCSS02** Batch ID: **P14VW044** TestNo: **EPA 8260B** Analysis Date: **3/13/2014** SeqNo: **1746288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140313LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92677**
Client ID: **LCSS02**	Batch ID: **P14VW044**	TestNo: **EPA 8260B**		Analysis Date: **3/13/2014**	SeqNo: **1746288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.490	0.50	20.00	0	92.5	71	128	17.29	6.71	20	
Benzene	20.610	0.50	20.00	0	103	80	120	18.14	12.7	20	
cis-1,2-Dichloroethene	21.370	0.50	20.00	0	107	77	120	19.77	7.78	20	
Ethylbenzene	19.800	0.50	20.00	0	99.0	80	120	18.33	7.71	20	
m,p-Xylene	41.380	1.0	40.00	0	103	80	120	38.72	6.64	20	
o-Xylene	20.560	0.50	20.00	0	103	80	120	18.55	10.3	20	
Tetrachloroethene	19.890	0.50	20.00	0	99.4	80	120	17.40	13.4	20	
Toluene	19.540	0.50	20.00	0	97.7	80	120	18.21	7.05	20	
trans-1,2-Dichloroethene	21.860	0.50	20.00	0	109	75	122	21.61	1.15	20	
Trichloroethene	21.750	0.50	20.00	0	109	80	120	19.18	12.6	20	
Vinyl chloride	22.170	0.50	20.00	0	111	66	131	22.46	1.30	20	
Surr: 1,2-Dichloroethane-d4	26.580		25.00		106	76	124		0		
Surr: 4-Bromofluorobenzene	24.260		25.00		97.0	80	120		0		
Surr: Dibromofluoromethane	26.670		25.00		107	80	124		0		
Surr: Toluene-d8	24.320		25.00		97.3	80	120		0		

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.
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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140314LCS**	SampType: **LCS**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92694**
Client ID: **LCSW**	Batch ID: **P14VW045**	TestNo: **EPA 8260B**		Analysis Date: **3/14/2014**	SeqNo: **1746971**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.310	0.50	20.00	0	86.6	71	128				
Benzene	19.180	0.50	20.00	0	95.9	80	120				
cis-1,2-Dichloroethene	19.670	0.50	20.00	0	98.4	77	120				
Ethylbenzene	19.150	0.50	20.00	0	95.8	80	120				
m,p-Xylene	38.870	1.0	40.00	0	97.2	80	120				
o-Xylene	19.400	0.50	20.00	0	97.0	80	120				
Tetrachloroethene	18.250	0.50	20.00	0	91.2	80	120				
Toluene	18.660	0.50	20.00	0	93.3	80	120				
trans-1,2-Dichloroethene	20.070	0.50	20.00	0	100	75	122				
Trichloroethene	20.170	0.50	20.00	0	101	80	120				
Vinyl chloride	25.740	0.50	20.00	0	129	66	131				
Surr: 1,2-Dichloroethane-d4	26.380		25.00		106	76	124				
Surr: 4-Bromofluorobenzene	24.920		25.00		99.7	80	120				
Surr: Dibromofluoromethane	25.640		25.00		103	80	124				
Surr: Toluene-d8	24.050		25.00		96.2	80	120				

Sample ID: **P140314MB2**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92694**
Client ID: **PBW**	Batch ID: **P14VW045**	TestNo: **EPA 8260B**		Analysis Date: **3/14/2014**	SeqNo: **1746972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140314MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92694**
Client ID: **PBW** Batch ID: **P14VW045** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.170		25.00		105	76	124				
Surr: 4-Bromofluorobenzene	25.900		25.00		104	80	120				
Surr: Dibromofluoromethane	25.630		25.00		103	80	124				
Surr: Toluene-d8	24.100		25.00		96.4	80	120				

Sample ID: **N012124-001AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92694**
Client ID: **ZZZZZZ** Batch ID: **P14VW045** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746977**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.590	0.50	20.00	0	88.0	66	134				
Benzene	18.870	0.50	20.00	0	94.4	80	120				
cis-1,2-Dichloroethene	17.330	0.50	20.00	0	86.7	78	121				
Ethylbenzene	20.590	0.50	20.00	0	103	80	120				
m,p-Xylene	38.140	1.0	40.00	0	95.4	80	120				
o-Xylene	19.060	0.50	20.00	0	95.3	80	120				
Tetrachloroethene	17.710	0.50	20.00	0	88.6	62	128				
Toluene	17.210	0.50	20.00	0	86.1	80	120				
trans-1,2-Dichloroethene	17.470	0.50	20.00	0	87.4	70	128				
Trichloroethene	19.280	0.50	20.00	0	96.4	80	120				
Vinyl chloride	23.080	0.50	20.00	0	115	63	138				
Surr: 1,2-Dichloroethane-d4	25.910		25.00		104	76	124				
Surr: 4-Bromofluorobenzene	27.630		25.00		111	80	120				
Surr: Dibromofluoromethane	24.120		25.00		96.5	80	124				
Surr: Toluene-d8	23.990		25.00		96.0	80	120				

Sample ID: **N012124-001AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92694**
Client ID: **ZZZZZZ** Batch ID: **P14VW045** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746978**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N012124-001AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92694**
Client ID: **ZZZZZZ** Batch ID: **P14VW045** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746978**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.840	0.50	20.00	0	89.2	66	134	17.59	1.41	20	
Benzene	18.360	0.50	20.00	0	91.8	80	120	18.87	2.74	20	
cis-1,2-Dichloroethene	19.470	0.50	20.00	0	97.4	78	121	17.33	11.6	20	
Ethylbenzene	18.020	0.50	20.00	0	90.1	80	120	20.59	13.3	20	
m,p-Xylene	37.170	1.0	40.00	0	92.9	80	120	38.14	2.58	20	
o-Xylene	18.540	0.50	20.00	0	92.7	80	120	19.06	2.77	20	
Tetrachloroethene	17.530	0.50	20.00	0	87.6	62	128	17.71	1.02	20	
Toluene	17.200	0.50	20.00	0	86.0	80	120	17.21	0.0581	20	
trans-1,2-Dichloroethene	19.050	0.50	20.00	0	95.2	70	128	17.47	8.65	20	
Trichloroethene	18.870	0.50	20.00	0	94.4	80	120	19.28	2.15	20	
Vinyl chloride	23.240	0.50	20.00	0	116	63	138	23.08	0.691	20	
Surr: 1,2-Dichloroethane-d4	26.610		25.00		106	76	124		0		
Surr: 4-Bromofluorobenzene	24.330		25.00		97.3	80	120		0		
Surr: Dibromofluoromethane	25.400		25.00		102	80	124		0		
Surr: Toluene-d8	23.480		25.00		93.9	80	120		0		

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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140315LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92758**
Client ID: **LCSW** Batch ID: **P14VW046** TestNo: **EPA 8260B** Analysis Date: **3/15/2014** SeqNo: **1747088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.510	0.50	20.00	0	92.6	71	128				
Benzene	20.730	0.50	20.00	0	104	80	120				
cis-1,2-Dichloroethene	20.980	0.50	20.00	0	105	77	120				
Ethylbenzene	20.180	0.50	20.00	0	101	80	120				
m,p-Xylene	41.920	1.0	40.00	0	105	80	120				
o-Xylene	20.430	0.50	20.00	0	102	80	120				
Tetrachloroethene	19.670	0.50	20.00	0	98.4	80	120				
Toluene	19.650	0.50	20.00	0	98.2	80	120				
trans-1,2-Dichloroethene	21.010	0.50	20.00	0	105	75	122				
Trichloroethene	21.530	0.50	20.00	0	108	80	120				
Vinyl chloride	24.000	0.50	20.00	0	120	66	131				
Surr: 1,2-Dichloroethane-d4	25.620		25.00		102	76	124				
Surr: 4-Bromofluorobenzene	23.910		25.00		95.6	80	120				
Surr: Dibromofluoromethane	24.950		25.00		99.8	80	124				
Surr: Toluene-d8	24.280		25.00		97.1	80	120				

Sample ID: **P140315LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92758**
Client ID: **LCSS02** Batch ID: **P14VW046** TestNo: **EPA 8260B** Analysis Date: **3/15/2014** SeqNo: **1747089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.870	0.50	20.00	0	94.4	71	128	18.51	1.93	20	
Benzene	20.540	0.50	20.00	0	103	80	120	20.73	0.921	20	
cis-1,2-Dichloroethene	21.020	0.50	20.00	0	105	77	120	20.98	0.190	20	
Ethylbenzene	20.600	0.50	20.00	0	103	80	120	20.18	2.06	20	
m,p-Xylene	42.910	1.0	40.00	0	107	80	120	41.92	2.33	20	
o-Xylene	21.250	0.50	20.00	0	106	80	120	20.43	3.93	20	
Tetrachloroethene	19.780	0.50	20.00	0	98.9	80	120	19.67	0.558	20	
Toluene	19.900	0.50	20.00	0	99.5	80	120	19.65	1.26	20	
trans-1,2-Dichloroethene	21.100	0.50	20.00	0	106	75	122	21.01	0.427	20	
Trichloroethene	21.880	0.50	20.00	0	109	80	120	21.53	1.61	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140315LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92758**
Client ID: **LCSS02**	Batch ID: **P14VW046**	TestNo: **EPA 8260B**		Analysis Date: **3/15/2014**	SeqNo: **1747089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	20.480	0.50	20.00	0	102	66	131	24.00	15.8	20	
Surr: 1,2-Dichloroethane-d4	24.940		25.00		99.8	76	124		0		
Surr: 4-Bromofluorobenzene	24.130		25.00		96.5	80	120		0		
Surr: Dibromofluoromethane	24.930		25.00		99.7	80	124		0		
Surr: Toluene-d8	23.790		25.00		95.2	80	120		0		

Sample ID: **P140315MB1**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92758**
Client ID: **PBW**	Batch ID: **P14VW046**	TestNo: **EPA 8260B**		Analysis Date: **3/15/2014**	SeqNo: **1747090**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.760		25.00		103	76	124				
Surr: 4-Bromofluorobenzene	23.550		25.00		94.2	80	120				
Surr: Dibromofluoromethane	25.130		25.00		101	80	124				
Surr: Toluene-d8	24.120		25.00		96.5	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140317LCS**	SampType: **LCS**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92761**
Client ID: **LCSW**	Batch ID: **P14VW047**	TestNo: **EPA 8260B**		Analysis Date: **3/17/2014**	SeqNo: **1747623**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.640	0.50	20.00	0	108	71	128				
Benzene	18.470	0.50	20.00	0	92.4	80	120				
cis-1,2-Dichloroethene	19.950	0.50	20.00	0	99.8	77	120				
Ethylbenzene	18.660	0.50	20.00	0	93.3	80	120				
m,p-Xylene	39.240	1.0	40.00	0	98.1	80	120				
o-Xylene	19.350	0.50	20.00	0	96.8	80	120				
Tetrachloroethene	17.340	0.50	20.00	0	86.7	80	120				
Toluene	18.170	0.50	20.00	0	90.9	80	120				
trans-1,2-Dichloroethene	20.270	0.50	20.00	0	101	75	122				
Trichloroethene	20.390	0.50	20.00	0	102	80	120				
Vinyl chloride	22.280	0.50	20.00	0	111	66	131				
Surr: 1,2-Dichloroethane-d4	26.570		25.00		106	76	124				
Surr: 4-Bromofluorobenzene	25.260		25.00		101	80	120				
Surr: Dibromofluoromethane	26.600		25.00		106	80	124				
Surr: Toluene-d8	24.030		25.00		96.1	80	120				

Sample ID: **P140317MB2**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92761**
Client ID: **PBW**	Batch ID: **P14VW047**	TestNo: **EPA 8260B**		Analysis Date: **3/17/2014**	SeqNo: **1747624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140317MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92761**
Client ID: **PBW** Batch ID: **P14VW047** TestNo: **EPA 8260B** Analysis Date: **3/17/2014** SeqNo: **1747624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	27.450		25.00		110	76	124				
Surr: 4-Bromofluorobenzene	25.310		25.00		101	80	120				
Surr: Dibromofluoromethane	27.200		25.00		109	80	124				
Surr: Toluene-d8	24.600		25.00		98.4	80	120				

Sample ID: **N012131-051AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92761**
Client ID: **ZZZZZZ** Batch ID: **P14VW047** TestNo: **EPA 8260B** Analysis Date: **3/17/2014** SeqNo: **1747626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.610	0.50	20.00	0	98.0	66	134				
Benzene	19.940	0.50	20.00	0	99.7	80	120				
cis-1,2-Dichloroethene	21.250	0.50	20.00	0	106	78	121				
Ethylbenzene	19.150	0.50	20.00	0	95.8	80	120				
m,p-Xylene	38.500	1.0	40.00	0	96.2	80	120				
o-Xylene	23.180	0.50	20.00	0	116	80	120				
Tetrachloroethene	22.580	0.50	20.00	4.500	90.4	62	128				
Toluene	20.870	0.50	20.00	0	104	80	120				
trans-1,2-Dichloroethene	21.250	0.50	20.00	0	106	70	128				
Trichloroethene	21.220	0.50	20.00	0	106	80	120				
Vinyl chloride	28.910	0.50	20.00	0	145	63	138				S
Surr: 1,2-Dichloroethane-d4	26.570		25.00		106	76	124				
Surr: 4-Bromofluorobenzene	23.510		25.00		94.0	80	120				
Surr: Dibromofluoromethane	27.340		25.00		109	80	124				
Surr: Toluene-d8	26.890		25.00		108	80	120				

Sample ID: **N012131-051AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92761**
Client ID: **ZZZZZZ** Batch ID: **P14VW047** TestNo: **EPA 8260B** Analysis Date: **3/17/2014** SeqNo: **1747627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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.
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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N012131-051AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92761**
Client ID: **ZZZZZZ** Batch ID: **P14VW047** TestNo: **EPA 8260B** Analysis Date: **3/17/2014** SeqNo: **1747627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23.010	0.50	20.00	0	115	66	134	19.61	16.0	20	
Benzene	19.620	0.50	20.00	0	98.1	80	120	19.94	1.62	20	
cis-1,2-Dichloroethene	21.200	0.50	20.00	0	106	78	121	21.25	0.236	20	
Ethylbenzene	18.830	0.50	20.00	0	94.2	80	120	19.15	1.69	20	
m,p-Xylene	38.850	1.0	40.00	0	97.1	80	120	38.50	0.905	20	
o-Xylene	19.670	0.50	20.00	0	98.4	80	120	23.18	16.4	20	
Tetrachloroethene	21.640	0.50	20.00	4.500	85.7	62	128	22.58	4.25	20	
Toluene	18.690	0.50	20.00	0	93.5	80	120	20.87	11.0	20	
trans-1,2-Dichloroethene	21.560	0.50	20.00	0	108	70	128	21.25	1.45	20	
Trichloroethene	20.400	0.50	20.00	0	102	80	120	21.22	3.94	20	
Vinyl chloride	20.850	0.50	20.00	0	104	63	138	28.91	32.4	20	R
Surr: 1,2-Dichloroethane-d4	27.200		25.00		109	76	124		0		
Surr: 4-Bromofluorobenzene	25.100		25.00		100	80	120		0		
Surr: Dibromofluoromethane	26.960		25.00		108	80	124		0		
Surr: Toluene-d8	24.750		25.00		99.0	80	120		0		

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.
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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140318LCS**	SampType: **LCS**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92785**
Client ID: **LCSW**	Batch ID: **P14VW048**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1748004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.590	0.50	20.00	0	93.0	71	128				
Benzene	17.650	0.50	20.00	0	88.2	80	120				
cis-1,2-Dichloroethene	18.320	0.50	20.00	0	91.6	77	120				
Ethylbenzene	17.210	0.50	20.00	0	86.1	80	120				
m,p-Xylene	35.890	1.0	40.00	0	89.7	80	120				
o-Xylene	18.180	0.50	20.00	0	90.9	80	120				
Toluene	17.540	0.50	20.00	0	87.7	80	120				
trans-1,2-Dichloroethene	18.250	0.50	20.00	0	91.2	75	122				
Trichloroethene	17.810	0.50	20.00	0	89.0	80	120				
Vinyl chloride	21.040	0.50	20.00	0	105	66	131				
Surr: 1,2-Dichloroethane-d4	26.300		25.00		105	76	124				
Surr: 4-Bromofluorobenzene	25.570		25.00		102	80	120				
Surr: Dibromofluoromethane	25.530		25.00		102	80	124				
Surr: Toluene-d8	25.210		25.00		101	80	120				

Sample ID: **P140318LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92785**
Client ID: **LCSS02**	Batch ID: **P14VW048**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1748005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.600	0.50	20.00	0	98.0	71	128	18.59	5.29	20	
Benzene	20.130	0.50	20.00	0	101	80	120	17.65	13.1	20	
cis-1,2-Dichloroethene	20.500	0.50	20.00	0	103	77	120	18.32	11.2	20	
Ethylbenzene	20.230	0.50	20.00	0	101	80	120	17.21	16.1	20	
m,p-Xylene	42.000	1.0	40.00	0	105	80	120	35.89	15.7	20	
o-Xylene	21.170	0.50	20.00	0	106	80	120	18.18	15.2	20	
Toluene	20.330	0.50	20.00	0	102	80	120	17.54	14.7	20	
trans-1,2-Dichloroethene	20.590	0.50	20.00	0	103	75	122	18.25	12.0	20	
Trichloroethene	21.040	0.50	20.00	0	105	80	120	17.81	16.6	20	
Vinyl chloride	23.040	0.50	20.00	0	115	66	131	21.04	9.07	20	
Surr: 1,2-Dichloroethane-d4	26.150		25.00		105	76	124		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140318LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92785**
Client ID: **LCSS02**	Batch ID: **P14VW048**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1748005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.740		25.00		103	80	120		0		
Surr: Dibromofluoromethane	25.680		25.00		103	80	124		0		
Surr: Toluene-d8	25.370		25.00		101	80	120		0		

Sample ID: **P140318MB2**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92785**
Client ID: **PBW**	Batch ID: **P14VW048**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1748006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.370		25.00		105	76	124				
Surr: 4-Bromofluorobenzene	25.410		25.00		102	80	120				
Surr: Dibromofluoromethane	26.130		25.00		105	80	124				
Surr: Toluene-d8	25.340		25.00		101	80	120				

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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140319LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92799**
Client ID: **LCSW** Batch ID: **P14VW049** TestNo: **EPA 8260B** Analysis Date: **3/19/2014** SeqNo: **1748420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.090	0.50	20.00	0	90.4	71	128				
Benzene	20.210	0.50	20.00	0	101	80	120				
cis-1,2-Dichloroethene	19.410	0.50	20.00	0	97.0	77	120				
Ethylbenzene	19.980	0.50	20.00	0	99.9	80	120				
m,p-Xylene	42.130	1.0	40.00	0	105	80	120				
o-Xylene	21.150	0.50	20.00	0	106	80	120				
Tetrachloroethene	18.430	0.50	20.00	0	92.2	80	120				
Toluene	20.230	0.50	20.00	0	101	80	120				
trans-1,2-Dichloroethene	19.640	0.50	20.00	0	98.2	75	122				
Trichloroethene	20.820	0.50	20.00	0	104	80	120				
Vinyl chloride	22.260	0.50	20.00	0	111	66	131				
Surr: 1,2-Dichloroethane-d4	24.810		25.00		99.2	76	124				
Surr: 4-Bromofluorobenzene	25.660		25.00		103	80	120				
Surr: Dibromofluoromethane	24.360		25.00		97.4	80	124				
Surr: Toluene-d8	25.220		25.00		101	80	120				

Sample ID: **P140319LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92799**
Client ID: **LCSS02** Batch ID: **P14VW049** TestNo: **EPA 8260B** Analysis Date: **3/19/2014** SeqNo: **1748421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.620	0.50	20.00	0	93.1	71	128	18.09	2.89	20	
Benzene	20.420	0.50	20.00	0	102	80	120	20.21	1.03	20	
cis-1,2-Dichloroethene	20.170	0.50	20.00	0	101	77	120	19.41	3.84	20	
Ethylbenzene	20.800	0.50	20.00	0	104	80	120	19.98	4.02	20	
m,p-Xylene	43.270	1.0	40.00	0	108	80	120	42.13	2.67	20	
o-Xylene	21.760	0.50	20.00	0	109	80	120	21.15	2.84	20	
Tetrachloroethene	18.710	0.50	20.00	0	93.6	80	120	18.43	1.51	20	
Toluene	20.550	0.50	20.00	0	103	80	120	20.23	1.57	20	
trans-1,2-Dichloroethene	20.340	0.50	20.00	0	102	75	122	19.64	3.50	20	
Trichloroethene	21.120	0.50	20.00	0	106	80	120	20.82	1.43	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P140319LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92799**
Client ID: **LCSS02**	Batch ID: **P14VW049**	TestNo: **EPA 8260B**		Analysis Date: **3/19/2014**	SeqNo: **1748421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.910	0.50	20.00	0	115	66	131	22.26	2.88	20	
Surr: 1,2-Dichloroethane-d4	25.430		25.00		102	76	124		0		
Surr: 4-Bromofluorobenzene	25.970		25.00		104	80	120		0		
Surr: Dibromofluoromethane	24.400		25.00		97.6	80	124		0		
Surr: Toluene-d8	25.190		25.00		101	80	120		0		

Sample ID: **P140319MB2**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92799**
Client ID: **PBW**	Batch ID: **P14VW049**	TestNo: **EPA 8260B**		Analysis Date: **3/19/2014**	SeqNo: **1748422**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.270		25.00		105	76	124				
Surr: 4-Bromofluorobenzene	25.850		25.00		103	80	120				
Surr: Dibromofluoromethane	24.890		25.00		99.6	80	124				
Surr: Toluene-d8	25.220		25.00		101	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140314LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92699**
Client ID: **LCSW** Batch ID: **Q14VW008** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.160	0.50	20.00	0	101	71	128				
Benzene	21.910	0.50	20.00	0	110	80	120				
cis-1,2-Dichloroethene	20.830	0.50	20.00	0	104	77	120				
Ethylbenzene	21.540	0.50	20.00	0	108	80	120				
m,p-Xylene	45.130	1.0	40.00	0	113	80	120				
o-Xylene	22.870	0.50	20.00	0	114	80	120				
Tetrachloroethene	19.050	0.50	20.00	0	95.2	80	120				
Toluene	21.730	0.50	20.00	0	109	80	120				
trans-1,2-Dichloroethene	22.850	0.50	20.00	0	114	75	122				
Trichloroethene	23.190	0.50	20.00	0	116	80	120				
Vinyl chloride	23.240	0.50	20.00	0	116	66	131				
Surr: 1,2-Dichloroethane-d4	26.740		25.00		107	76	124				
Surr: 4-Bromofluorobenzene	25.420		25.00		102	80	120				
Surr: Dibromofluoromethane	27.110		25.00		108	80	124				
Surr: Toluene-d8	25.960		25.00		104	80	120				

Sample ID: **Q140314MB3** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92699**
Client ID: **PBW** Batch ID: **Q14VW008** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140314MB3**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92699**
Client ID: **PBW**	Batch ID: **Q14VW008**	TestNo: **EPA 8260B**		Analysis Date: **3/14/2014**	SeqNo: **1746861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.800		25.00		91.2	76	124				
Surr: 4-Bromofluorobenzene	23.340		25.00		93.4	80	120				
Surr: Dibromofluoromethane	22.710		25.00		90.8	80	124				
Surr: Toluene-d8	23.530		25.00		94.1	80	120				

Sample ID: **N012131-006AMS**	SampType: **MS**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92699**
Client ID: **ZZZZZZ**	Batch ID: **Q14VW008**	TestNo: **EPA 8260B**		Analysis Date: **3/14/2014**	SeqNo: **1746866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.920	0.50	20.00	0	89.6	66	134				
Benzene	20.220	0.50	20.00	0	101	80	120				
cis-1,2-Dichloroethene	20.580	0.50	20.00	0	103	78	121				
Ethylbenzene	18.960	0.50	20.00	0	94.8	80	120				
m,p-Xylene	38.420	1.0	40.00	0	96.0	80	120				
o-Xylene	20.200	0.50	20.00	0	101	80	120				
Tetrachloroethene	17.600	0.50	20.00	1.170	82.2	62	128				
Toluene	19.290	0.50	20.00	0	96.5	80	120				
trans-1,2-Dichloroethene	20.100	0.50	20.00	0	101	70	128				
Trichloroethene	20.570	0.50	20.00	0	103	80	120				
Vinyl chloride	20.760	0.50	20.00	0	104	63	138				
Surr: 1,2-Dichloroethane-d4	26.800		25.00		107	76	124				
Surr: 4-Bromofluorobenzene	23.530		25.00		94.1	80	120				
Surr: Dibromofluoromethane	25.520		25.00		102	80	124				
Surr: Toluene-d8	23.590		25.00		94.4	80	120				

Sample ID: **N012131-006AMSD**	SampType: **MSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92699**
Client ID: **ZZZZZZ**	Batch ID: **Q14VW008**	TestNo: **EPA 8260B**		Analysis Date: **3/14/2014**	SeqNo: **1746867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N012131-006AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92699**
Client ID: **ZZZZZZ** Batch ID: **Q14VW008** TestNo: **EPA 8260B** Analysis Date: **3/14/2014** SeqNo: **1746867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.620	0.50	20.00	0	88.1	66	134	17.92	1.69	20	
Benzene	21.020	0.50	20.00	0	105	80	120	20.22	3.88	20	
cis-1,2-Dichloroethene	21.620	0.50	20.00	0	108	78	121	20.58	4.93	20	
Ethylbenzene	19.550	0.50	20.00	0	97.8	80	120	18.96	3.06	20	
m,p-Xylene	37.640	1.0	40.00	0	94.1	80	120	38.42	2.05	20	
o-Xylene	20.260	0.50	20.00	0	101	80	120	20.20	0.297	20	
Tetrachloroethene	17.960	0.50	20.00	1.170	84.0	62	128	17.60	2.02	20	
Toluene	19.780	0.50	20.00	0	98.9	80	120	19.29	2.51	20	
trans-1,2-Dichloroethene	20.620	0.50	20.00	0	103	70	128	20.10	2.55	20	
Trichloroethene	21.170	0.50	20.00	0	106	80	120	20.57	2.87	20	
Vinyl chloride	20.970	0.50	20.00	0	105	63	138	20.76	1.01	20	
Surr: 1,2-Dichloroethane-d4	28.540		25.00		114	76	124		0		
Surr: 4-Bromofluorobenzene	24.200		25.00		96.8	80	120		0		
Surr: Dibromofluoromethane	27.700		25.00		111	80	124		0		
Surr: Toluene-d8	24.520		25.00		98.1	80	120		0		

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

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

CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140317LCS2** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92773**
Client ID: **LCSW** Batch ID: **Q14VW009** TestNo: **EPA 8260B** Analysis Date: **3/17/2014** SeqNo: **1747986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.440	0.50	20.00	0	92.2	71	128				
Benzene	19.490	0.50	20.00	0	97.5	80	120				
cis-1,2-Dichloroethene	18.160	0.50	20.00	0	90.8	77	120				
Ethylbenzene	18.580	0.50	20.00	0	92.9	80	120				
m,p-Xylene	39.010	1.0	40.00	0	97.5	80	120				
o-Xylene	19.750	0.50	20.00	0	98.8	80	120				
Tetrachloroethene	16.500	0.50	20.00	0	82.5	80	120				
Toluene	18.840	0.50	20.00	0	94.2	80	120				
trans-1,2-Dichloroethene	19.430	0.50	20.00	0	97.2	75	122				
Trichloroethene	20.010	0.50	20.00	0	100	80	120				
Vinyl chloride	21.180	0.50	20.00	0	106	66	131				
Surr: 1,2-Dichloroethane-d4	25.410		25.00		102	76	124				
Surr: 4-Bromofluorobenzene	24.490		25.00		98.0	80	120				
Surr: Dibromofluoromethane	25.570		25.00		102	80	124				
Surr: Toluene-d8	24.210		25.00		96.8	80	120				

Sample ID: **Q140317LCSD2** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92773**
Client ID: **LCSS02** Batch ID: **Q14VW009** TestNo: **EPA 8260B** Analysis Date: **3/17/2014** SeqNo: **1747987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.280	0.50	20.00	0	96.4	71	128	18.44	4.45	20	
Benzene	20.450	0.50	20.00	0	102	80	120	19.49	4.81	20	
cis-1,2-Dichloroethene	19.420	0.50	20.00	0	97.1	77	120	18.16	6.71	20	
Ethylbenzene	19.780	0.50	20.00	0	98.9	80	120	18.58	6.26	20	
m,p-Xylene	41.710	1.0	40.00	0	104	80	120	39.01	6.69	20	
o-Xylene	20.960	0.50	20.00	0	105	80	120	19.75	5.94	20	
Tetrachloroethene	17.800	0.50	20.00	0	89.0	80	120	16.50	7.58	20	
Toluene	19.970	0.50	20.00	0	99.8	80	120	18.84	5.82	20	
trans-1,2-Dichloroethene	20.540	0.50	20.00	0	103	75	122	19.43	5.55	20	
Trichloroethene	20.930	0.50	20.00	0	105	80	120	20.01	4.49	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140317LCSD2**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92773**
Client ID: **LCSS02**	Batch ID: **Q14VW009**	TestNo: **EPA 8260B**		Analysis Date: **3/17/2014**	SeqNo: **1747987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.330	0.50	20.00	0	112	66	131	21.18	5.29	20	
Surr: 1,2-Dichloroethane-d4	25.320		25.00		101	76	124		0		
Surr: 4-Bromofluorobenzene	23.750		25.00		95.0	80	120		0		
Surr: Dibromofluoromethane	24.670		25.00		98.7	80	124		0		
Surr: Toluene-d8	23.270		25.00		93.1	80	120		0		

Sample ID: **Q140317MB3**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92773**
Client ID: **PBW**	Batch ID: **Q14VW009**	TestNo: **EPA 8260B**		Analysis Date: **3/17/2014**	SeqNo: **1747988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.680		25.00		94.7	76	124				
Surr: 4-Bromofluorobenzene	23.280		25.00		93.1	80	120				
Surr: Dibromofluoromethane	23.190		25.00		92.8	80	124				
Surr: Toluene-d8	23.680		25.00		94.7	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140318LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92780**
Client ID: **LCSW** Batch ID: **Q14VW010** TestNo: **EPA 8260B** Analysis Date: **3/18/2014** SeqNo: **1747960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.630	0.50	20.00	0	98.2	71	128				
Benzene	21.040	0.50	20.00	0	105	80	120				
cis-1,2-Dichloroethene	20.380	0.50	20.00	0	102	77	120				
Ethylbenzene	19.460	0.50	20.00	0	97.3	80	120				
m,p-Xylene	40.970	1.0	40.00	0	102	80	120				
o-Xylene	20.840	0.50	20.00	0	104	80	120				
Tetrachloroethene	17.150	0.50	20.00	0	85.8	80	120				
Toluene	19.980	0.50	20.00	0	99.9	80	120				
trans-1,2-Dichloroethene	21.010	0.50	20.00	0	105	75	122				
Trichloroethene	20.840	0.50	20.00	0	104	80	120				
Vinyl chloride	23.300	0.50	20.00	0	116	66	131				
Surr: 1,2-Dichloroethane-d4	27.300		25.00		109	76	124				
Surr: 4-Bromofluorobenzene	23.750		25.00		95.0	80	120				
Surr: Dibromofluoromethane	26.720		25.00		107	80	124				
Surr: Toluene-d8	24.380		25.00		97.5	80	120				

Sample ID: **Q140318LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92780**
Client ID: **LCSS02** Batch ID: **Q14VW010** TestNo: **EPA 8260B** Analysis Date: **3/18/2014** SeqNo: **1747961**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.570	0.50	20.00	0	97.9	71	128	19.63	0.306	20	
Benzene	21.180	0.50	20.00	0	106	80	120	21.04	0.663	20	
cis-1,2-Dichloroethene	19.970	0.50	20.00	0	99.8	77	120	20.38	2.03	20	
Ethylbenzene	20.710	0.50	20.00	0	104	80	120	19.46	6.22	20	
m,p-Xylene	43.050	1.0	40.00	0	108	80	120	40.97	4.95	20	
o-Xylene	21.740	0.50	20.00	0	109	80	120	20.84	4.23	20	
Tetrachloroethene	18.190	0.50	20.00	0	91.0	80	120	17.15	5.89	20	
Toluene	20.430	0.50	20.00	0	102	80	120	19.98	2.23	20	
trans-1,2-Dichloroethene	20.910	0.50	20.00	0	105	75	122	21.01	0.477	20	
Trichloroethene	21.590	0.50	20.00	0	108	80	120	20.84	3.54	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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.
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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140318LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92780**
Client ID: **LCSS02**	Batch ID: **Q14VW010**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1747961**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	23.550	0.50	20.00	0	118	66	131	23.30	1.07	20	
Surr: 1,2-Dichloroethane-d4	25.560		25.00		102	76	124		0		
Surr: 4-Bromofluorobenzene	23.740		25.00		95.0	80	120		0		
Surr: Dibromofluoromethane	24.040		25.00		96.2	80	124		0		
Surr: Toluene-d8	23.700		25.00		94.8	80	120		0		

Sample ID: **Q140318MB3**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92780**
Client ID: **PBW**	Batch ID: **Q14VW010**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1747962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	21.830		25.00		87.3	76	124				
Surr: 4-Bromofluorobenzene	21.910		25.00		87.6	80	120				
Surr: Dibromofluoromethane	21.740		25.00		87.0	80	124				
Surr: Toluene-d8	22.540		25.00		90.2	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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.
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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140318LCS2** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92805**
Client ID: **LCSW** Batch ID: **Q14VW011** TestNo: **EPA 8260B** Analysis Date: **3/18/2014** SeqNo: **1748389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.410	0.50	20.00	0	92.0	71	128				
Benzene	20.130	0.50	20.00	0	101	80	120				
cis-1,2-Dichloroethene	18.110	0.50	20.00	0	90.6	77	120				
Ethylbenzene	18.870	0.50	20.00	0	94.4	80	120				
m,p-Xylene	39.400	1.0	40.00	0	98.5	80	120				
o-Xylene	19.630	0.50	20.00	0	98.2	80	120				
Tetrachloroethene	17.510	0.50	20.00	0	87.6	80	120				
Toluene	19.310	0.50	20.00	0	96.6	80	120				
trans-1,2-Dichloroethene	19.410	0.50	20.00	0	97.0	75	122				
Trichloroethene	20.540	0.50	20.00	0	103	80	120				
Vinyl chloride	22.470	0.50	20.00	0	112	66	131				
Surr: 1,2-Dichloroethane-d4	26.350		25.00		105	76	124				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	80	120				
Surr: Dibromofluoromethane	25.440		25.00		102	80	124				
Surr: Toluene-d8	25.450		25.00		102	80	120				

Sample ID: **Q140318LCSD2** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **92805**
Client ID: **LCSS02** Batch ID: **Q14VW011** TestNo: **EPA 8260B** Analysis Date: **3/18/2014** SeqNo: **1748390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.210	0.50	20.00	0	101	71	128	18.41	9.32	20	
Benzene	21.030	0.50	20.00	0	105	80	120	20.13	4.37	20	
cis-1,2-Dichloroethene	18.300	0.50	20.00	0	91.5	77	120	18.11	1.04	20	
Ethylbenzene	20.540	0.50	20.00	0	103	80	120	18.87	8.48	20	
m,p-Xylene	42.290	1.0	40.00	0	106	80	120	39.40	7.08	20	
o-Xylene	20.890	0.50	20.00	0	104	80	120	19.63	6.22	20	
Tetrachloroethene	18.660	0.50	20.00	0	93.3	80	120	17.51	6.36	20	
Toluene	20.540	0.50	20.00	0	103	80	120	19.31	6.17	20	
trans-1,2-Dichloroethene	20.640	0.50	20.00	0	103	75	122	19.41	6.14	20	
Trichloroethene	21.800	0.50	20.00	0	109	80	120	20.54	5.95	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140318LCSD2**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92805**
Client ID: **LCSS02**	Batch ID: **Q14VW011**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1748390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	24.320	0.50	20.00	0	122	66	131	22.47	7.91	20	
Surr: 1,2-Dichloroethane-d4	26.430		25.00		106	76	124		0		
Surr: 4-Bromofluorobenzene	24.860		25.00		99.4	80	120		0		
Surr: Dibromofluoromethane	25.480		25.00		102	80	124		0		
Surr: Toluene-d8	26.010		25.00		104	80	120		0		

Sample ID: **Q140318MB6**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92805**
Client ID: **PBW**	Batch ID: **Q14VW011**	TestNo: **EPA 8260B**		Analysis Date: **3/18/2014**	SeqNo: **1748391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.950		25.00		95.8	76	124				
Surr: 4-Bromofluorobenzene	24.410		25.00		97.6	80	120				
Surr: Dibromofluoromethane	23.020		25.00		92.1	80	124				
Surr: Toluene-d8	25.550		25.00		102	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140319LCS**	SampType: **LCS**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92795**
Client ID: **LCSW**	Batch ID: **Q14VW012**	TestNo: **EPA 8260B**		Analysis Date: **3/19/2014**	SeqNo: **1748447**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.220	0.50	20.00	0	91.1	71	128				
Benzene	20.240	0.50	20.00	0	101	80	120				
cis-1,2-Dichloroethene	18.280	0.50	20.00	0	91.4	77	120				
Ethylbenzene	19.950	0.50	20.00	0	99.8	80	120				
m,p-Xylene	41.770	1.0	40.00	0	104	80	120				
o-Xylene	21.150	0.50	20.00	0	106	80	120				
Tetrachloroethene	17.470	0.50	20.00	0	87.4	80	120				
Toluene	19.810	0.50	20.00	0	99.0	80	120				
trans-1,2-Dichloroethene	19.950	0.50	20.00	0	99.8	75	122				
Trichloroethene	20.470	0.50	20.00	0	102	80	120				
Vinyl chloride	21.470	0.50	20.00	0	107	66	131				
Surr: 1,2-Dichloroethane-d4	25.150		25.00		101	76	124				
Surr: 4-Bromofluorobenzene	24.490		25.00		98.0	80	120				
Surr: Dibromofluoromethane	24.760		25.00		99.0	80	124				
Surr: Toluene-d8	24.240		25.00		97.0	80	120				

Sample ID: **Q140319LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92795**
Client ID: **LCSS02**	Batch ID: **Q14VW012**	TestNo: **EPA 8260B**		Analysis Date: **3/19/2014**	SeqNo: **1748448**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.270	0.50	20.00	0	96.4	71	128	18.22	5.60	20	
Benzene	20.510	0.50	20.00	0	103	80	120	20.24	1.33	20	
cis-1,2-Dichloroethene	19.480	0.50	20.00	0	97.4	77	120	18.28	6.36	20	
Ethylbenzene	20.610	0.50	20.00	0	103	80	120	19.95	3.25	20	
m,p-Xylene	43.010	1.0	40.00	0	108	80	120	41.77	2.93	20	
o-Xylene	21.220	0.50	20.00	0	106	80	120	21.15	0.330	20	
Tetrachloroethene	18.400	0.50	20.00	0	92.0	80	120	17.47	5.19	20	
Toluene	20.230	0.50	20.00	0	101	80	120	19.81	2.10	20	
trans-1,2-Dichloroethene	20.590	0.50	20.00	0	103	75	122	19.95	3.16	20	
Trichloroethene	20.910	0.50	20.00	0	105	80	120	20.47	2.13	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DQ 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

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

CLIENT: Cardno ATC
Work Order: N012131
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **Q140319LCSD**	SampType: **LCSD**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92795**
Client ID: **LCSS02**	Batch ID: **Q14VW012**	TestNo: **EPA 8260B**		Analysis Date: **3/19/2014**	SeqNo: **1748448**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.210	0.50	20.00	0	111	66	131	21.47	3.39	20	
Surr: 1,2-Dichloroethane-d4	24.340		25.00		97.4	76	124		0		
Surr: 4-Bromofluorobenzene	23.300		25.00		93.2	80	120		0		
Surr: Dibromofluoromethane	24.270		25.00		97.1	80	124		0		
Surr: Toluene-d8	23.640		25.00		94.6	80	120		0		

Sample ID: **Q140319MB2**	SampType: **MBLK**	TestCode: **8260WATERP**	Units: **µg/L**	Prep Date:	RunNo: **92795**
Client ID: **PBW**	Batch ID: **Q14VW012**	TestNo: **EPA 8260B**		Analysis Date: **3/19/2014**	SeqNo: **1748450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
Benzene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.150		25.00		88.6	76	124				
Surr: 4-Bromofluorobenzene	20.180		25.00		80.7	80	120				
Surr: Dibromofluoromethane	21.650		25.00		86.6	80	124				
Surr: Toluene-d8	22.080		25.00		88.3	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DQ 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

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CHAIN OF CUSTODY RECORD

Page of Page___ of___

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: HSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.0 IR2

1. CHILLED Y☑ N☐ 4. SEALED Y☑ N☐
2. HEADSPACE (VOA) Y☑ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☑ N☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) (Signature)

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name)	3/13/14	1514	Received by: (Signature and Printed Name) JPG	3/13/14	1532
Relinquished by: (Signature and Printed Name) JPG	3/13/14	1558	Received by: (Signature and Printed Name) Amanda Cortes	3/13/14	1558
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: Dwight Kirsch 3/13/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

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)

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	Circle or Add Analysis(es) Requested: 8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SPECIFY APPROPRIATE MATRIX: SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N0121311	MW-1	3/13	1327			X					X			E	3	V	H	
	2	MW-2	3/14	920			X					X			E	3	V	H	
	3	MW-3	3/13	[illegible]			X					X			E	3	V	H	
	4	MW-5	3/14	1050			X					X			E	3	V	H	
	5	MW-6	3/14	1247			X					X			E	3	V	H	
	6	MW-6D1	3/5	1342			X					X			E	3	V	H	
	7	MW-6D2	3/5	1415			X					X			E	3	V	H	
	8	MW-6D3	3/5	1259			X					X			E	3	V	H	
	9	MW-7	3/13	1183			X					X			E	3	V	H	
	10	MW-8	3/13	1016			X					X			E	3	V	H	

QA / QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode____ OTHER ____

■ TAT starts 8AM the following day if samples received after 3 PM

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=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: HSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

3.6 1.22

Sample Condition Upon Receipt
1. CHILLED Y ☑ N ☐ 4. SEALED Y ☑ N ☐
2. HEADSPACE (VOA) Y ☑ N ☐ 5. # OF SPLS MATCH COC Y ☑ N ☐
3. CONTAINER INTACT Y ☑ N ☐ 6. PRESERVED Y ☑ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
	3/13/14	1514	JPG	3/13/14	1532
JPG	3/13/14	1558	Amanda Cortes	3/13/14	1558
	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: 3/13/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode____ OTHER ____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	STLC	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	ND12131-11	MW-9	3/13	1148			X						X			E	3	V	H	
	12	MW-10	3/5	1117			X						X			E	3	V	H	
	13	MW-11	3/5	1030			X			+			X			E	3	V	H	
	14	MW-12	3/13	928			X						X			E	3	V	H	
	15	MW-13	3/4	1009			X						X			E	3	V	H	
	16	MW-14	3/4	1155			X						X			E	3	V	H	
	17	MW-14I	3/4	1345			X						X			E	3	V	H	
	18	MW-15	3/5	1207			X						X			E	3	V	H	
	19	MW-16	3/5	924			X						X			E	3	V	H	
	20	MW-17	3/13	1440			X						X			E	3	V	H	

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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=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page of

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #:

Logged By: HSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt: 3.6 1122
1. CHILLED Y ☑ N ☐ 4. SEALED Y ☑ N ☐
2. HEADSPACE (VOA) Y ☑ N ☐ 5. # OF SPLS MATCH COC Y ☑ N ☐
3. CONTAINER INTACT Y ☑ N ☐ 6. PRESERVED Y ☑ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) (Signature) 2

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
2	3/13/14	1514	JPG	3/13/14	1532
JPG	3/13/14	1558	Amanda Cotes	3/13/14	1558

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: 2 3/13/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode____ OTHER ____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N012131-21	MW-18	3/13	1129			X					X			E	3	V	H	
	22	MW-18 Dup	3/13	1129			X					X			E	3	V	H	
	23	MW-19	3/7	1424			X	X	X			X			E	3	V	H	
	24	MW-19I	3/12	1044			X	X	X			X			E	3	V	H	
	25	MW-19D1	3/12	1449			X					X			E	3	V	H	
	26	MW-19D2	3/7	925			X					X			E	3	V	H	
	27	MW-19D3	3/7	1217			X					X			E	3	V	H	
	28	MW-20	3/12	1327			X	X	X			X			E	3	V	H	
	29	MW-20D1	3/7	1324			X					X			E	3	V	H	
	30	MW-20D2	3/7	1115			X					X			E	3	V	H	

■ TAT starts 8AM the following day if samples received after 3 PM

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=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: HSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.0 1127
1. CHILLED Y ☑ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☑ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
JPG	3/13/14	1514	JPG	3/13/14	1537
JPG	3/13/14	1558	Amanda Cortez	3/13/14	1558

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: JPG 3/13/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode____ OTHER ____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N012131-31	MW-20D3	3/7	1020			X					X			E	3	V	H	
	32	MW-21	3/12	1131			X					X			E	3	V	H	
	33	MW-22	3/11	1314			X					X			E	3	V	H	
	34	MW-23	3/13	1120			X					X			E	3	V	H	
	35	MW-24	3/11	1024			X					X			E	3	V	H	
	36	MW-25	3/13	937			X					X			E	3	V	H	
	37	MW-26	3/13	1030			X					X			E	3	V	H	
	38	MW-27	3/11	1412			X					X			E	3	V	H	
	39	MW-28	3/11	934			X					X			E	3	V	H	
	40	MW-29	3/11	847			X					X			E	3	V	H	

TAT starts 8AM the following day if samples received after 3 PM

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Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page of

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Las Vegas, NV 89118
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FOR LABORATORY USE ONLY

P.O. #:

Logged By: MSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt: 3.0 / 122

1. CHILLED	Y ☑ N ☐	4. SEALED	Y ☑ N ☐
2. HEADSPACE (VOA)	Y ☑ N ☐	5. # OF SPLS MATCH COC	Y ☑ N ☐
3. CONTAINER INTACT	Y ☑ N ☐	6. PRESERVED	Y ☑ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) JPG (Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
JPG	3/13/14	1514	JPG	3/13/14	1537
JPG	3/13/14	1558	Amanda Cortes	3/13/14	1558

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: 3/13/14 (Print Name / Date)
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
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Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX: SOIL / WATER / GROUND WATER / WASTEWATER

ITEM	LAB USE ONLY: Lab No.	Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	ND12131-41	MW-30	3/10	1341			X				E	3	V	H	
	42	MW-31	3/10	1239			X				E	3	V	H	
	43	MW-32	3/11	1505			X				E	3	V	H	
	44	MW-33	3/11	1120			X				E	3	V	H	
	45	MW-34	3/3	1455			X				E	3	V	H	
	46	MW-35	3/3	1407			X				E	3	V	H	
	47	MW-36	3/10	1442			X	X	X		E	3	V	H	
	48	MW-37	3/10	1142			X	X	X		E	3	V	H	
	49	MW-38	3/10	1047			X	X	X		E	3	V	H	
	50	MW-39	3/10	1592			X	X	X		E	3	V	H	

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

■ TAT starts 8AM the following day if samples received after 3 PM

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Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

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FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: HSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.0 1122
1. CHILLED Y ☑ N ☐ | 2. HEADSPACE (VOA) Y ☑ N ☐ | 3. CONTAINER INTACT Y ☑ N ☐ | 4. SEALED Y ☑ N ☐ | 5. # OF SPLS MATCH COC Y ☑ N ☐ | 6. PRESERVED Y ☑ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
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Fax: 702-990-9305

Project Name: Maryland Square
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Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	3/13/14	1514	JPG JPG	3/13/14	1537
JPG JPG	3/13/14	1558	Amanda Cortez	3/13/14	1558
	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: _____ 3/13/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode____ OTHER ____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N01213[-51	MW-40 CMT-30	3/6	1012				X	X	X				X		E	3	V	H	
	52	MW-40 CMT-35	3/6	1105				X	X	X				X		E	3	V	H	
	53	MW-40 CMT-40	3/6	1159				X	X	X				X		E	3	V	H	
	54	MW-40 CMT-45	3/6	1245				X	X	X				X		E	3	V	H	
	55	MW-40 CMT-50	3/6	1350				X	X	X				X		E	3	V	H	
	56	MW-40 CMT-55	3/6	1412				X	X	X				X		E	3	V	H	
	57	MW-40 CMT-60	3/6	1920				X	X	X				X		E	3	V	H	
	58	MW-41	3/10	958				X						X		E	3	V	H	
	59	MW-42	3/10	904				X						X		E	3	V	H	
	60	MW-43	3/11	920				X						X		E	3	V	H	

■ TAT starts 8AM the following day if samples received after 3 PM

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=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page of Page ___ of ___

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: HSG Date: 3/13/14

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

3.0 /122

Sample Condition Upon Receipt

1. CHILLED	Y ☑ N ☐	4. SEALED	Y ☑ N ☐
2. HEADSPACE (VOA)	Y ☑ N ☐	5. # OF SPLS MATCH COC	Y ☑ N ☐
3. CONTAINER INTACT	Y ☑ N ☐	6. PRESERVED	Y ☑ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
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.* (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
JPG	3/13/14	1514	JPG	3/13/14	1532
JPG	3/13/14	1538	Amanda Cortes	3/13/14	1558
	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: _____ 3/13/14
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA / QC
RTNE ☐
CT ☐
SWRCB ☐ Logcode _____
OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N012131-61	Trip Blank	3/13	715				X				X				E	3	V	H	
	62	Field Blank	3/13	1230				X				X				E	3	V	H	
	63	Equip Rinse	3/13	1250				X				X				E	3	V	H	

TAT starts 8AM the following day if samples received after 3 PM

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=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C
$Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

Advanced Technology Laboratories, Inc.

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

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

Cooler Received/Opened On:	3/13/2014	Workorder:	N012131
Rep sample Temp (Deg C):	3.0	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	ATL		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	Bubble Wrap
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: MW-7, MW-8, MW-16, MW-19D1, MW-20, MW-21, MW-38, MW-39, and MW-40 CMT-50 had significant headspace. Confirmed with analyst that there was enough sample to analyze. On COC sample 16 is labeled "Equip Rinse." However, sample containers are labeled as "Equip Blank.

Checklist Completed By AC  03/18/2014

Reviewed By:  3/20/2014

ATL Sample Control

From: ATL Sample Control [samplecontrol@atl-labs.com]
Sent: Friday, March 14, 2014 11:37 AM
To: 'Sample Control'
Subject: RE: Maryland Square, 085.42620.0001 (N012131) COC and Sample Receipt Checklist

Hi, Andrew.

Yes, we have already notified the analyst and she is running those samples now.

Also, please advise:

For the Equipment Blanks, the Chain of Custody has them named as Equipment Rinse. However, the label on the bag containing the samples was labeled as Equip Blank. Which label ID should we use?

Thank you,
Amanda

From: Sample Control [mailto:samplecontrol@atl-labs.com]
Sent: Friday, March 14, 2014 10:42 AM
To: 'Marlon B. Cartin'
Cc: 'Glen Gesmundo'; 'Hanah Glodoviza'
Subject: FW: Maryland Square, 085.42620.0001 (N012131) COC and Sample Receipt Checklist

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From: Andrew Stuart [mailto:andrew.stuart@cardno.com]
Sent: Friday, March 14, 2014 10:41 AM
To: Sample Control
Subject: RE: Maryland Square, 085.42620.0001 (N012131) COC and Sample Receipt Checklist

Did you see we have 8260 samples expiring starting Monday?

Andrew Stuart, CEM, LEED AP
BRANCH MANAGER
CARDNO ATC

NOTE NEW ADDRESS AND PHONE NUMBERS
Phone (+1) 702-990-9300 Fax (+1) 702-990-9305 Direct (+1) 702-990-7540 Mobile (+1) 702-524-1454
Address 7115 Amigo Street, Suite 100, Las Vegas, NV 89119
Email andrew.stuart@cardno.com Web www.cardnoatc.com - www.cardno.com

---

From: Sample Control [mailto:samplecontrol@atl-labs.com]
Sent: Friday, March 14, 2014 10:40 AM
To: Andrew Stuart
Subject: Maryland Square, 085.42620.0001 (N012131) COC and Sample Receipt Checklist

Enclosed are the COC and Sample Receipt Checklist for sample received 3/13/2014. If you have any questions, please contact your Project Manager listed below.

Marlon Cartin
3151 W. Post Road
Las Vegas, Nevada
89118
Tel. No.: (702)-307-2659
Cel. No.: (702)-439-0421
Email: marlon@atl-labs.com

Thank you for using Advanced Technology Laboratories, Inc.

3151 W. Post Road Las Vegas, NV 89118
www.atl-labs.com
Tel: (702) 307-2659
Fax: (702) 307-2691

Advanced Technology Laboratories, Inc. **is a full-service woman owned environmental laboratory providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples.** *ATL Inc is* **certified by the State of California, NELAP, and the State of Nevada. It is also a certified UDBE, SBE and DBE.** *ATL Inc* **takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates.**

Maryland Square PCE Site

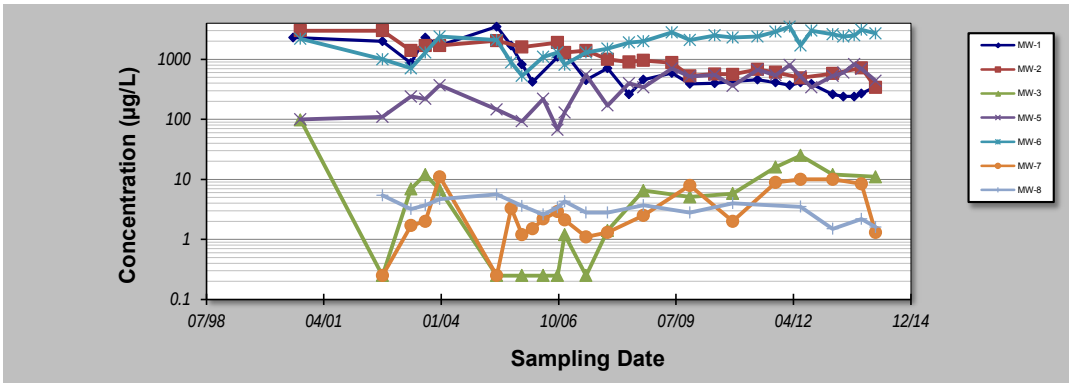
APPENDIX C
MANN-KENDALL TREND TEST FOR PLUME STABILITY

Cardno ATC
Shaping the Future

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	15-Apr-14	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)						
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	Jun 07	450	1,400	0.25	550	1,300	1.1	2.8
15	Dec 07	710	1,000	1.4	170	1,500	1.3	2.8
16	Jun 08	260	900		400	1,900		
17	Oct 08	460	960	6.5	340	2,000	2.5	3.7
18	Jun 09	590	880		700	2,800		
19	Nov 09	390	530	5.1	520	2,100	7.9	2.8
20	Jun 10	400	570		550	2,500		
21	Nov 10	430	560	5.8	360	2,300	2	4
22	Jun 11	460	680		670	2,400		
23	Nov 11	410	610	16	540	2,900	8.9	
24	Mar 12	370			800	3,500		
25	Jun 12	410	490	25	520	1,700	10	3.5
26	Sep 12	390			340	3,000		
27	Mar 13	260	580	12	530	2,600	10	1.5
28	Jun 13	240			600	2,400		
29	Sep 13	240			830	2,500		
30	Nov 13	270	720		690	3,100	8.4	2.2
31	Mar 14	350	340	11	440	2,700	1.3	1.6
32								
33								
34								
35								
Coefficient of Variation:		0.94	0.62	2.01	0.57	0.40	0.94	0.33
Mann-Kendall Statistic (S):		-283	-188	37	196	223	66	-67
Confidence Factor:		>99.9%	>99.9%	89.5%	>99.9%	>99.9%	97.6%	99.5%
Concentration Trend:		Decreasing	Decreasing	No Trend	Increasing	Increasing	Increasing	Decreasing



Notes:

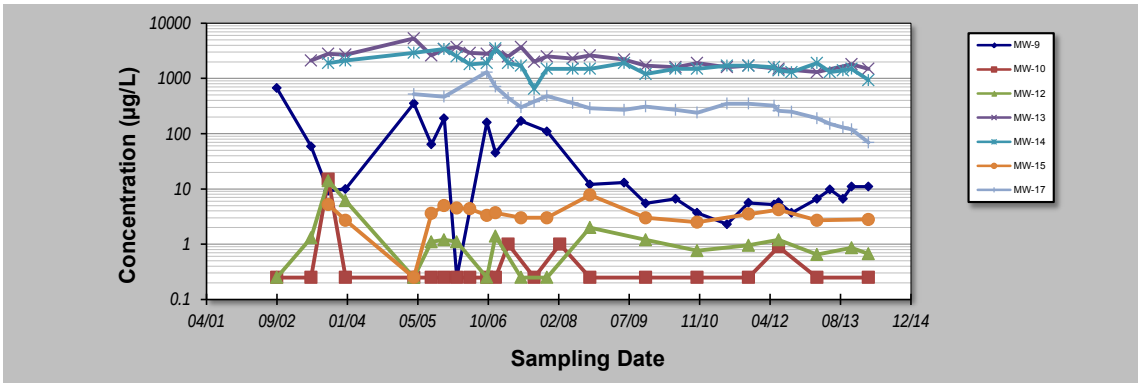
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. 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.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Apr-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
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	Sep 02	670	0.25	0.25				
2	May 03	59	0.25	1.3	2100			
3	Sep 03	9	15	14	2,800	1900	5.2	
4	Jan 04	10	0.25	6.1	2,700	2100	2.7	
5	May 05	353	0.25	0.25	5,310	2,920	0.25	520
6	Sep 05	64	0.25	1.1	2,600		3.6	
7	Dec 05	190	0.25	1.2	3,400	3,400	5	470
8	Mar 06	0.25	0.25	1.1	3,700	2,500	4.5	
9	Jun 06		0.25		2,900	1,800	4.4	
10	Oct 06	160	0.25	0.25	2,800	1,900	3.3	1300
11	Dec 06	45	0.25	1.4	3,200	3,500	3.7	710
12	Mar 07		1		2,500	1,900		440
13	Jun 07	170		0.25	3,700	1,700	3	300
14	Sep 07		0.25		2,000	650		380
15	Dec 07	110		0.25	2,500	1,500	3	480
16	Mar 08		1					
17	Jun 08				2,300	1,500		360
18	Oct 08	12	0.25	2	2,600	1,500	7.8	290
19	Jun 09	13			2,200	1,900		270
20	Nov 09	6	0.25	1.2	1,700	1,200	3	310
21	Jun 10	7			1,600	1,500		270
22	Nov 10	4	0.25	0.76	1,900	1,500	2.5	240
23	Jun 11	2			1,600	1,700		350
24	Nov 11	5.6	0.25	0.95	1,700	1,700	3.5	350
25	May 12	5.2				1,600		320
26	Jun 12	5.7	0.9	1.2	1,500	1,400	4.2	260
27	Sep 12	3.7				1,300		250
28	Mar 13	6.6	0.25	0.65	1,300	1,900	2.7	190
29	Jun 13	9.8				1,300		150
30	Sep 13	6.6				1,400		130
31	Nov 13	11.0		0.86	1,800	1,500		120
32	Mar 14	11.0	0.25	0.67	1,500	930	2.8	69
33								
34								
35								
Coefficient of Variation:		2.01	3.00	1.76	0.37	0.36	0.42	0.69
Mann-Kendall Statistic (S):		-118	-1	-28	-198	-182	-33	-208
Confidence Factor:		99.4%	50.0%	80.7%	>99.9%	>99.9%	88.5%	>99.9%
Concentration Trend:		Decreasing	No Trend	No Trend	Decreasing	Decreasing	Stable	Decreasing



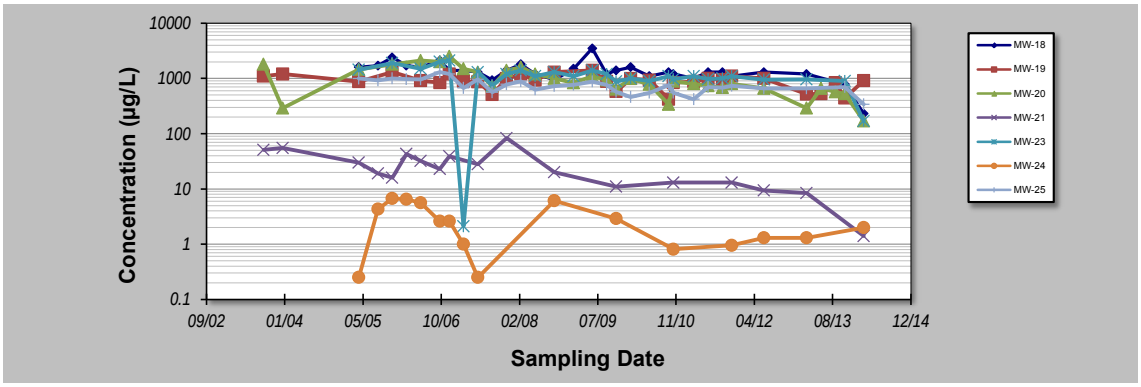
Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. 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.
3. 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.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	15-Apr-14	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)						
1	Sep 03		1,100	1,800	51			
2	Jan 04		1,200	290	55			
3	May 05	1,600	873	1,460	30	1,430	0.25	993
4	Sep 05	1,700			19		4.3	920
5	Dec 05	2,400	1,300	1,800	16	1,900	6.7	1,000
6	Mar 06	1,700			43		6.5	970
7	Jun 06	1,600	910	2,100	32	1,500	5.6	960
8	Oct 06	2,100	840	2,000	23	2,000	2.6	1,300
9	Dec 06	1,400	1,200	2,500	39	2,100	2.6	1,200
10	Mar 07	1,400	890	1,500		2.1	1.0	670
11	Jun 07	1,300	870	1,300	28	1,300	0.25	960
12	Sep 07	930	510	730		750		560
13	Dec 07	1,400	990	1,400	83	1,200		780
14	Mar 08	1,800	1,200	1,600		1,400		890
15	Jun 08	1,200	930	1,200		1,100		630
16	Oct 08	950	1,300	1,000	20	1,300	6.1	730
17	Feb 09	1,500		830		1,100		770
18	Jun 09	3,500	1,400	1,100		1,400		880
19	Sep 09	1,200	880	940		1,200		770
20	Nov 09	1,400	580	640	11	880	2.9	570
21	Feb 10	1,600	990	990		1,000		460
22	Jun 10	1,100	930	780		900		550
23	Oct 10	1,300	420	340		1,100		760
24	Nov 10	1,200	840	890	13	970	0.81	550
25	Mar 11	1,000	880	800		1,100		420
26	Jun 11	1,300	1,000	740		970		700
27	Sep 11	1,300	950	680		1,000		680
28	Nov 11	1,100	1,100	800	13	1,100	0.95	740
29	Jun 12	1,300	1,000	660	9.4	950	1.3	660
30	Mar 13	1,200	520	290	8.4	960	1.3	660
31	Jun 13		530	660				
32	Sep 13		840	570				
33	Nov 13	780	440	530		900		700
34	Mar 14	230	910	170	1.4	170	2.0	340
35								
Coefficient of Variation:		0.40	0.28	0.55	0.74	0.39	0.81	0.29
Mann-Kendall Statistic (S):		-204	-83	-310	-90	-182	-29	-228
Confidence Factor:		>99.9%	92.8%	>99.9%	>99.9%	>99.9%	89.5%	>99.9%
Concentration Trend:		Decreasing	Prob. Decreasing	Decreasing	Decreasing	Decreasing	Stable	Decreasing



Notes:

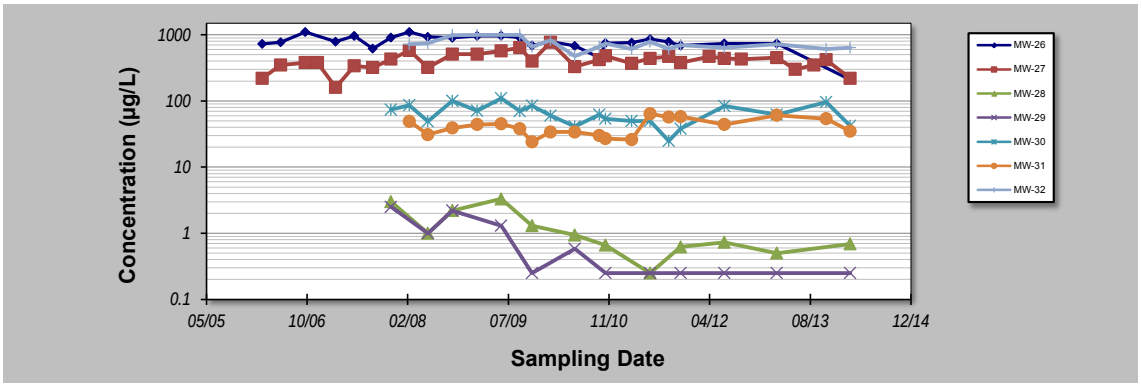
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. 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.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Apr-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Mar 06	730	220					
2	Jun 06	770	350					
3	Oct 06	1,100	380					
4	Dec 06		380					
5	Mar 07	790	160					
6	Jun 07	960	340					
7	Sep 07	620	320					
8	Dec 07	910	430	3.0	2.5	74		
9	Mar 08	1,100	580			86	49	720
10	Jun 08	930	320	1.0	1.0	49	31	750
11	Oct 08	900	510	2.2	2.2	100	39	990
12	Feb 09	960	510			71	44	1,000
13	Jun 09	970	570	3.3	1.3	110	45	1,000
14	Sep 09	910	640			70	38	1,000
15	Nov 09	690	400	1.3	0.25	85	24	660
16	Feb 10	790	770			60	34	830
17	Jun 10	680	330	0.94	0.58	41	34	480
18	Oct 10	450	420	.		62	30	660
19	Nov 10	750	480	0.66	0.25	54	27	740
20	Mar 11	760	370			50	26	610
21	Jun 11	860	440	0.25	0.25	50	64	790
22	Sep 11	780	470			25	57	610
23	Nov 11	690	380	0.62	0.25	38	58	700
24	Mar 12		470					
25	Jun 12	740	440	0.73	0.25	84	44	640
26	Sep 12		430					
27	Mar 13	740	450	0.50	0.25	62	61	720
28	Jun 13		300					
29	Sep 13		350					
30	Nov 13		420			96	54	610
31	Mar 14	210	220	0.69	0.25	42	35	640
32								
33								
34								
35								
Coefficient of Variation:		0.24	0.29	0.80	1.05	0.35	0.30	0.21
Mann-Kendall Statistic (S):		-98	3	-38	-39	-58	21	-64
Confidence Factor:		98.9%	51.4%	99.6%	99.7%	96.8%	75.5%	98.7%
Concentration Trend:		Decreasing	No Trend	Decreasing	Decreasing	Decreasing	No Trend	Decreasing



Notes:

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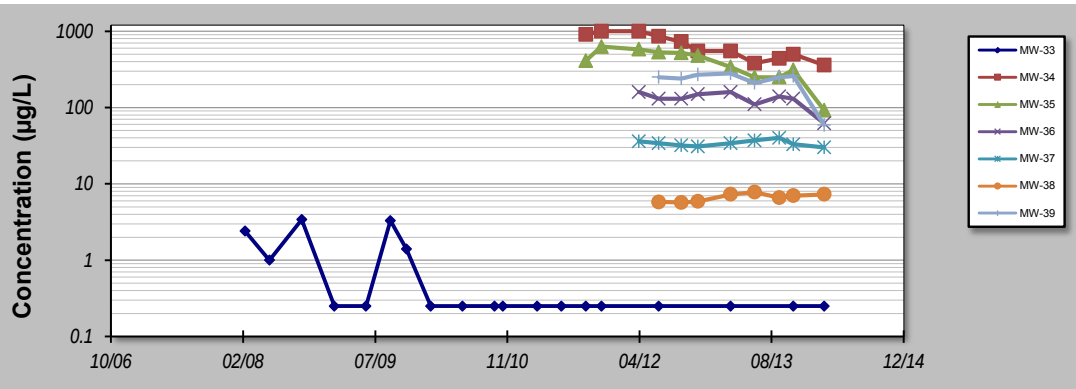
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	15-Apr-14	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	Mar 08	2.4						
2	Jun 08	1.0						
3	Oct 08	3.4						
4	Feb 09	0.25						
5	Jun 09	0.25						
6	Sep 09	3.3						
7	Nov 09	1.4						
8	Feb 10	0.25						
9	Jun 10	0.25						
10	Oct 10	0.25						
11	Nov 10	0.25						
12	Mar 11	0.25						
13	Jun 11	0.25						
14	Sep 11	0.25	910	410				
15	Nov 11	0.25	1,000	630				
16	Mar 12		1,000	580	160	36		
17	Jun 12	0.25	860	530	130	34	5.8	250
18	Sep 12		730	520	130	32	5.7	240
19	Nov 12		550	480	150	31	5.9	270
20	Mar 13	0.25	550	340	160	34	7.3	280
21	Jun 13		380	250	110	37	7.8	210
22	Sep 13		440	250	140	40	6.6	250
23	Nov-13	0.25	500	310	130	33	7.0	260
24	Mar 14	0.25	360	92	62	30	7.3	59
25								
Coefficient of Variation:		1.34	0.37	0.42	0.23	0.09	0.12	0.31
Mann-Kendall Statistic (S):		-62	-43	-40	-14	-5	15	-5
Confidence Factor:		98.5%	>99.9%	100.0%	91.0%	65.7%	95.8%	68.3%
Concentration Trend:		Decreasing	Decreasing	Decreasing	Prob. Decreasing	Stable	Increasing	Stable



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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	15-Apr-14	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-40 CMT 30	MW-40 CMT 35	MW-40 CMT 40	MW-40 CMT 45	MW-40 CMT50	MW-40 CMT 55	MW-40 CMT 60
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Nov 12	340	260	320	280	300	930	1,400
2	Mar 13	4.7	48	270	310	280	390	1,200
3	Jun 13	10	3.6	53	47	64	200	1,000
4	Sep 13	2.1	7.9	37	110	24	38	20
5	Nov-13	1.3	12	51	77	120	110	190
6	Mar 14	4.5	2.6	27	24	72	130	360
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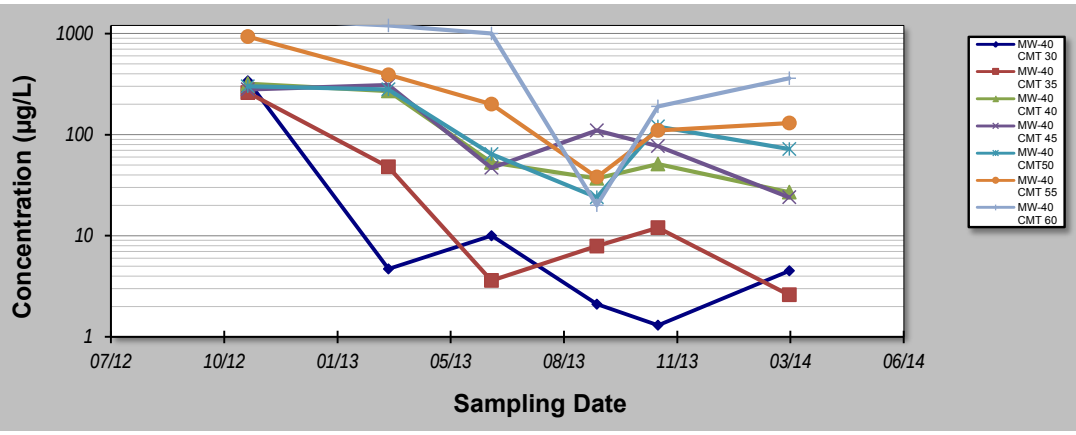
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		2.27	1.28	1.04	0.87	0.82	0.77	0.83
Mann-Kendall Statistic (S):		-9	-4	-13	-9	-7	-4	-9
Confidence Factor:		93.2%	75.8%	99.2%	93.2%	86.4%	75.8%	93.2%
Concentration Trend:		Prob. Decreasing	No Trend	Decreasing	Prob. Decreasing	Stable	Stable	Prob. Decreasing



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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	15-Apr-14	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-14I	MW-6D1	MW-6D2	MW-6D3	MW-19D1	MW-19D2	MW-19D3
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Mar 13	7,200	0.25	0.25	0.25	300	170	0.50
2	Jun 13	5,500	0.25	0.25	0.25	690	0.25	0.68
3	Sep 13	3,700	58	33	2.0	990	0.25	710
4	Nov-13	10,000	3.2	3.3	3.0	620	0.25	160
5	Mar 14	7,600	1.2	1.6	1.9	3.7	0.53	17
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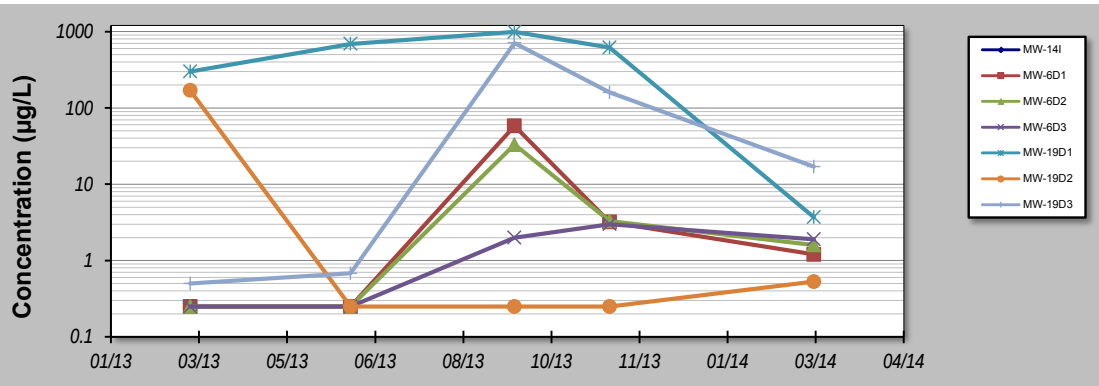
Coefficient of Variation:		0.35	1.80	1.85	0.81	0.73	0.44	1.72
Mann-Kendall Statistic (S):		2	0	3	5	-2	3	4
Confidence Factor:		59.2%	37.5%	67.5%	82.1%	59.2%	72.9%	75.8%
Concentration Trend:		No Trend	No Trend	No Trend	No Trend	Stable	No Trend	No Trend



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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	15-Apr-14	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-19I	MW-20D1	MW-20D2	MW-20D3			
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Sep 12	690						
2	Jun 13	0.25	110	64	0.25			
3	Sep 13	0.25	100	210	25			
4	Nov-13	0.25	260	160	62			
5	Mar 14	0.25	76	11	7.9			
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15								
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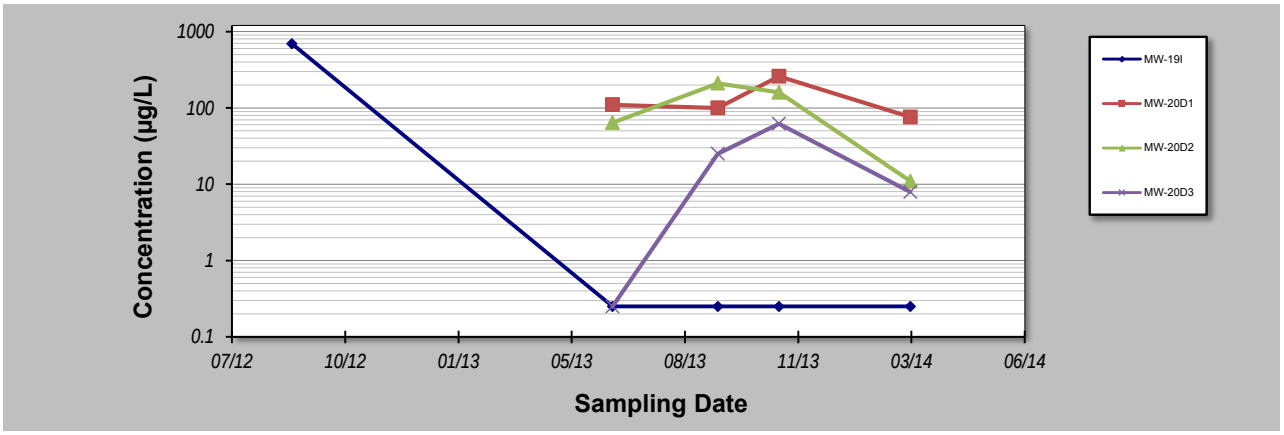
17								
18								
19								
20								
Coefficient of Variation:		2.23	0.61	0.81	1.16			
Mann-Kendall Statistic (S):		-4	-2	-2	2			
Confidence Factor:		75.8%	62.5%	62.5%	62.5%			
Concentration Trend:		No Trend	Stable	Stable	No Trend			



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