March 2015
First Semiannual Sampling Report
Former Holley Automotive Facility
Water Valley, Mississippi

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1.0 Introduction

On March 23 through 25, 2015, Ecology & Environment, Inc. (E & E) performed the 2015 first semiannual sampling event at the Former Holley Automotive Facility located in Water Valley, Mississippi. This report summarizes the results of the sampling.

2.0 Groundwater Elevations and Groundwater Flow Direction

On March 25, 2014, E & E collected one set of groundwater elevations (see Table 1). Figure 1 shows the potentiometric surface, based on shallow groundwater elevations, recorded on March 25. The aquifer below the site consists of interbedded, discontinuous lenses of sandy and clayey sediments. The potentiometric surface map based on this interpretation is consistent with historical data and indicates that for the majority of the site, groundwater flow is to the north towards Otoucalofa Creek; however, in the area near the former Holley Automotive plant, a westerly component of groundwater flow is present.

As first reported in the September 2008 Sampling Report, two piezometers, PZ-1 and PZ-2, were installed on August 8, 2008, north of Otoucalofa Creek to a depth of 35 feet. These wells were initially intended to help determine the flow direction of groundwater in the area north of Otoucalofa Creek. The data indicated that the creek bottom is at a lower elevation than the groundwater north of the creek. Therefore, groundwater from the northern side of Otoucalofa Creek drains towards the creek rather than away from it. The creek thereby serves as a natural barrier to the migration of the plume farther north of the creek.

3.0 Groundwater Sampling

Twenty-four groundwater samples were collected during the March 2015 semiannual sampling event, which includes two duplicate samples. The areas around two groundwater wells, MW-45 and MW-46, were flooded due to recent heavy rains and the sites could not be accessed for sampling. Groundwater samples were obtained in accordance with United States Environmental Protection Agency (EPA) Region 4 groundwater standard operating procedures. As with all previous events, wells were purged using low-flow sampling techniques to ensure that a representative sample was collected from each monitoring well. Water levels were recorded to reduce well drawdown, and the field parameters of temperature, pH, turbidity, conductivity, dissolved oxygen (DO), and oxidation/reduction potential (ORP) were measured and recorded. Table 2 presents the well purging data for each well that was sampled during the March 2015 semiannual sampling. Groundwater purging and sampling equipment were calibrated prior to use and decontaminated between each sampling location.

After collection, groundwater samples, including trip blanks (for quality assurance and quality control [QA/QC]) were immediately labeled, custody-sealed, and placed on ice for shipment to TestAmerica Laboratories, Inc (TestAmerica). As with our past analytical protocol, the samples were analyzed by TestAmerica for chlorinated organic compounds by EPA Method 8260B.

4.0 Groundwater Analytical Results

Groundwater analytical results for chlorinated organics from the March 2015 sampling are presented in Table 3. Figure 2 illustrates the extent of trichloroethene (TCE) concentrations measured in groundwater at the site. Shallow and deep wells are presented on one map to illustrate the overall lateral and vertical extent of the TCE plume.

TCE was detected above the maximum concentration level (MCL) value of 5 micrograms per liter (µg/L) in the monitoring wells sampled, with exception of the following wells: MW-28S, MW-28D, MW-30S, MW-30D, MW-34, MW-38, MW-38S, MW-45, MW-47, and MW-48. MW-30D (3.1 µg/L) and MW-38S (1.1 ug/L) were the only wells sampled that had a concentration below the MCL but above the laboratory method detection limit (MDL). The TCE concentrations exceeding the MCL ranged from 58 µg/L to 2800 µg/L. Five- year trend graphs for the TCE concentration in each monitoring well over time are presented as Attachment A.

Concentrations of cis-1,2-dichloroethene (cis-1,2-DCE) were detected at or above the MCL (70 µg/L) in seven of the wells sampled: MW-22S (190 µg/L), MW-22D (72 µg/L), MW-27 (130 µg/L), MW-37 (88 µg/L), , and MW-44 (74 µg/L).

The March 2015 semiannual sampling event analytical results indicate that the concentrations of 1,1-dichloroethene (1,1-DCE) , trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride were detected below MCL values of 7 µg/L, 100 µg/L, and 2 µg/L respectively. Table 3 provides analytical results for the monitoring wells sampled. TestAmerica laboratory reports are located in Appendix B.

5.0 Groundwater Natural Attenuation Results

A summary of the field-measured parameters collected during the March 2015 semiannual sampling event is provided in Table 2. An evaluation of the field-measured parameters is provided below:

Temperature: Temperature affects the solubility of dissolved gases and other geochemical species. The rate of biodegradation is accelerated in groundwater temperatures greater than 20 degrees Celsius (°C). During the March 2015 semiannual sampling event, the sample temperatures ranged from 13.20°C to 20.30°C.

pH: pH levels affect the presence and activity of microbial populations in groundwater. The optimal pH range for biodegradation is between 5 standard units (SUs) and 9 SUs. During the March 2015 semiannual sampling event, the sample pH values ranged from 4.92 SUs to 6.07 SUs.

Dissolved Oxygen: DO is the most geochemically favored electron acceptor used by microbes for aerobic biodegradation. Anaerobic bacteria become nonfunctional at concentrations that exceed 5 milligrams per liter (mg/L) (or 55% @ 20º C), causing reductive dechlorination to cease. During the March 2015 semiannual sampling event, the DO ranged from 38.5 % to 94.01%.

Oxidation-Reduction Potential: ORP is a measure of the relative tendency of a solution to accept or transfer electrons. ORP levels between 50 millivolts (mV) and -100 (mV) hold potential for reductive dechlorination, and levels between -100 mV and -400 mV are optimal for reductive dechlorination. During the March 2015 semiannual sampling event, the ORP levels ranged from --=94.30 mV to 2.90 mV.

6.0 Surface Water Analytical Results

Three creek water samples, CS-1, CS-2, and CS-3, were collected for laboratory analysis. The samples were collected from the bank of the creek in three locations along Otoucalofa Creek (depicted in Figure 2). It should be noted that the water level in the creek was high and flowing swiftly due to recent rains in the area. Each creek sample was shown to be non-detect for TCE, cis-1,2-DCE, 1,1-DCE, trans-1,2-DCE, and vinyl chloride. For the three most recent events, June 2014, September 2014, and March 2015, all contaminants of concern have been below the lab MDL and are considered absent during this time frame.

As seen in Table 3, TCE concentrations in the three creek samples have fluctuated over the last four years. The first detection was made in December of 2010 and since that first detection, concentrations have fluctuated from below MDLs, up to 7.5 µg/L. Currently, the Ambient Water Quality Criteria (AWQC) for water and organism is listed at 2.5 µg/L. It is expected that this criteria will soon be lowered to 0.6 µg/L, pending approval from the EPA.

The case narrative completed by Test America reported that all calibration, blanks, and surrogates acceptance criteria were met. Analytical or quality problems observed are detailed in the Case Narrative of the lab pack, provided as Attachment B.

7.0 Conclusions

The size of the identified dissolved TCE plume has remained relatively stable for the past five years. The analytical results of the wells that were installed to monitor plume migration (MW-28S, MW-28D, MW-34, MW-45, MW-47, and MW-48) were below the laboratory MDLs for all constituents. This indicates that the TCE plume has not migrated with any significance to the east or west as previously speculated. A review of the past five years of quarterly sampling data indicates that the concentrations of TCE, 1,1-DCE , trans-1,2-DCE, and vinyl chloride have continuously been detected below laboratory MDLs for MW-28S, MW-28D, MW-31S, MW-34, MW-38, and MW-38S. MW-45 is typically included in this list however the location was not sampled during the March 2015 event due to the area being flooded.

Though TCE concentrations in several of the monitoring wells sampled exceeded the MCL, the presence of cis-1,2-DCE indicates breakdown of the TCE through anaerobic degradation. Natural attenuation monitoring parameters indicate the aquifer is conducive for anaerobic degradation; however, the rate of degradation may be limited in a few areas by pH, dissolved oxygen, and ORP.

Creek surface water samples have exhibited concentrations below lab MDLs for the past three samplings. E & E will continue to monitor TCE levels in the creek so that these concentrations remain below the AWQC of 2.5 µg/L and the anticipated AWQC of 0.6 µg/L.

Quarterly groundwater sampling events at the Former Holley Automotive facility have been conducted every quarter since May 2006. An examination of these data and a review of the previously mentioned five-year trend graphs indicate that TCE trends have overwhelmingly been constant but in a few cases have increased slightly (MW-25D, MW-35, MW-46). A small, increasing trend in a few wells can be expected due to the amoebic-like nature of a groundwater plume. These noted trends will continue to be monitored to ensure that significant plume migration is not taking place.

TABLES AND FIGURES

Water Valley, Mississippi

WELL ID	MW-11	MW-12	MW-15	MW-16	MW-22S	MW-22D	MW-23D	MW-24	MW-25S
WELL DEPTH FROM TOC	43.60	40.94	43.37	19.23	29.24	46.80	42.77	21.70	37.43
TOC ELEVATION	279.99	277.24	276.27	277.12	282.46	282.61	276.15	275.96	286.92

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
9/18/2006	270.88	9.11	266.22	11.02	268.50	7.77	266.94	10.18	273.32	9.14	274.73	7.88	264.25	11.90	268.22	7.74	270.57	16.35
12/182006	272.29	7.70	269.48	7.76	271.97	4.30	270.62	6.50	274.30	8.16	275.63	6.98	265.53	10.62	270.26	5.70	271.28	15.64
3/27/2007	272.00	7.99	267.17	10.07	270.59	5.68	268.96	8.16	274.31	8.15	275.59	7.02	260.94	15.21	--	--	271.45	15.47
6/19/2007	271.51	8.48	267.13	10.11	270.26	6.01	268.48	8.64	273.78	8.68	275.11	7.50	261.46	14.69	272.22	3.74	270.79	16.13
9/7/2007	270.84	9.15	266.47	10.77	268.73	7.54	267.36	9.76	273.16	9.30	274.43	8.18	263.65	12.50	271.50	4.46	270.68	16.24
12/7/2007	271.89	8.10	269.22	8.02	271.96	4.31	270.59	6.53	273.83	8.63	275.15	7.46	264.01	12.14	273.28	2.68	270.72	16.20
3/10/2008	272.85	7.14	270.27	6.97	272.41	3.86	271.19	5.93	274.71	7.75	275.90	6.71	265.70	10.45	274.51	1.45	271.88	15.04
6/16/2008	272.23	7.76	269.00	8.24	270.87	5.40	269.75	7.37	274.32	8.14	275.55	7.06	266.05	10.10	273.42	2.54	271.52	15.40
9/16/2008	274.88	5.11	267.98	9.26	271.16	5.11	268.82	8.30	273.52	8.94	274.84	7.77	265.01	11.14	272.47	3.49	270.64	16.28
12/2/2008	275.26	4.73	269.32	7.92	271.85	4.42	270.35	6.77	273.81	8.65	275.11	7.50	265.72	10.43	273.34	2.62	270.82	16.10
3/23/2009	276.32	3.67	270.21	7.03	271.99	4.28	270.91	6.21	274.70	7.76	275.84	6.77	267.22	8.93	274.33	1.63	271.72	15.20
6/15/2009	276.48	3.51	270.32	6.92	272.53	3.74	271.04	6.08	274.96	7.50	276.13	6.48	267.35	8.80	274.66	1.30	272.22	14.70
9/28/2009	275.85	4.14	270.87	6.37	272.69	3.58	271.76	5.36	274.49	7.97	275.76	6.85	267.30	8.85	274.48	1.48	271.44	15.48
12/14/2009	276.71	3.28	271.22	6.02	273.08	3.19	271.75	5.37	275.11	7.35	276.29	6.32	268.09	8.06	275.23	0.73	272.24	14.68
3/23/2010	276.83	3.16	270.93	6.31	272.74	3.53	271.52	5.60	275.45	7.01	276.59	6.02	269.85	6.30	275.23	0.73	272.56	14.36
7/27/2010	274.79	5.20	267.22	10.02	269.14	7.13	267.80	9.32	273.72	8.74	275.08	7.53	264.61	11.54	272.12	3.84	270.94	15.98
9/21/2010	0.00	0.00	267.64	9.60	268.77	7.50	267.43	9.69	273.16	9.30	274.36	8.25	263.93	12.22	271.54	4.42	270.42	16.50
12/13/2010	275.00	4.99	269.12	8.12	271.63	4.64	270.10	7.02	273.74	8.72	275.10	7.51	265.44	10.71	273.09	2.87	270.60	16.32
3/29/2011	276.15	3.84	271.16	6.08	272.89	3.38	271.79	5.33	274.77	7.69	275.92	6.69	267.91	8.24	274.93	1.03	271.76	15.16
6/14/2011	275.10	4.89	268.46	8.78	270.35	5.92	268.95	8.17	273.85	8.61	275.07	7.54	265.47	10.68	272.85	3.11	271.02	15.90
9/20/2011	274.45	5.54	267.65	9.59	270.39	5.88	268.37	8.75	273.16	9.30	274.49	8.12	264.53	11.62	272.28	3.68	270.18	16.74
12/27/2011	275.31	4.68	270.98	6.26	273.16	3.11	271.69	5.43	274.35	8.11	275.57	7.04	268.13	8.02	274.77	1.19	271.20	15.72
3/20/2012	276.05	3.94	270.02	7.22	271.79	4.48	270.77	6.35	274.49	7.97	275.63	6.98	267.10	9.05	274.25	1.71	271.38	15.54
6/19/2012	274.54	5.45	267.75	9.49	269.64	6.63	268.47	8.65	273.24	9.22	274.51	8.10	266.60	9.55	272.24	3.72	270.29	16.63
9/26/2012	274.09	5.90	266.98	10.26	269.16	7.11	267.80	9.32	272.75	9.71	274.09	8.52	264.16	11.99	271.66	4.30	270.01	16.91
12/18/2012	274.96	5.03	269.55	7.69	272.07	4.20	270.65	6.47	273.68	8.78	274.93	7.68	265.91	10.24	273.50	2.46	270.68	16.24
3/12/2013	276.25	3.74	270.29	6.95	272.30	3.97	271.00	6.12	274.60	7.86	275.72	6.89	266.67	9.48	274.64	1.32	271.75	15.17
6/25/2013	275.65	4.34	268.96	8.28	-	-	269.70	7.42	274.28	8.18	275.47	7.14	-	-	273.47	2.49	271.56	15.36
9/16/2013	274.35	5.64	267.18	10.06	-	-	-	-	273.12	9.34	274.28	8.33	266.07	10.08	271.82	4.14	270.54	16.38
12/16/2013	275.77	4.22	270.86	6.38	-	-	271.43	5.69	274.44	8.02	275.64	6.97	269.71	6.44	274.69	1.27	271.58	15.34
3/17/2014	274.63	5.36	269.86	7.38	-	-	270.55	6.57	274.71	7.75	275.81	6.80	266.79	9.36	274.19	1.77	271.80	15.12
6/24/2014	275.84	4.15	269.46	7.78	-	-	269.96	7.16	274.41	8.05	275.56	7.05	266.62	9.53	273.78	2.18	271.42	15.50
9/9/2014	274.69	5.30	267.40	9.84	-	-	268.10	9.02	273.45	9.01	274.55	8.06	265.94	10.21	272.16	3.80	270.79	16.13
3/25/2015	274.01	5.98	270.70	6.54	-	-	269.91	7.21	275.32	7.14	276.21	6.40	267.59	8.56	272.98	2.98	275.50	11.42

Water Valley, Mississippi

WELL ID	MW-29D	MW-30S	MW-30D	MW-31S	MW-31D	MW-32	MW-33	MW-34	MW-35
WELL DEPTH FROM TOC	41.81	19.81	39.95	24.84	42.04	34.91	36.94	42.20	46.42
TOC ELEVATION	274.89	272.77	274.07	276.28	274.29	276.02	274.61	277.16	274.51

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
9/18/2006	261.06	13.83	258.66	14.11	262.67	11.40	258.40	17.88	259.26	15.03	267.65	8.37	267.04	7.57	267.73	9.43	259.19	15.32
12/182006	259.37	15.52	259.63	13.14	263.04	11.03	258.78	17.50	259.45	14.84	268.21	7.81	267.77	6.84	271.69	5.47	258.83	15.68
3/27/2007	259.06	15.83	259.84	12.93	262.93	11.14	259.00	17.28	259.29	15.00	266.99	9.03	266.89	7.72	270.31	6.85	258.71	15.80
6/19/2007	259.07	15.82	258.42	14.35	263.86	10.21	258.35	17.93	264.47	9.82	-	NS	266.72	7.89	269.10	8.06	258.91	15.60
9/7/2007	260.35	14.54	258.95	13.82	262.67	11.40	258.20	18.08	258.95	15.34	-	NS	266.63	7.98	268.12	9.04	258.77	15.74
12/7/2007	261.88	13.01	259.40	13.37	263.06	11.01	258.42	17.86	259.30	14.99	268.47	7.55	268.00	6.61	271.86	5.30	259.59	14.92
3/10/2008	263.47	11.42	262.05	10.72	264.06	10.01	259.48	16.80	260.05	14.24	270.01	6.01	269.51	5.10	272.13	5.03	260.98	13.53
6/16/2008	262.43	12.46	260.97	11.80	263.16	10.91	259.27	17.01	259.45	14.84	268.76	7.26	268.64	5.97	270.43	6.73	260.08	14.43
9/16/2008	261.36	13.53	258.82	13.95	262.57	11.50	258.34	17.94	259.16	15.13	267.64	8.38	267.58	7.03	269.56	7.60	259.20	15.31
12/2/2008	261.74	13.15	258.67	14.10	262.84	11.23	258.46	17.82	259.39	14.90	268.27	7.75	268.03	6.58	271.48	5.68	259.51	15.00
3/23/2009	263.45	11.44	261.95	10.82	263.76	10.31	261.89	14.39	259.84	14.45	270.01	6.01	269.56	5.05	271.70	5.46	260.94	13.57
6/15/2009	263.64	11.25	262.20	10.57	264.04	10.03	260.02	16.26	259.97	14.32	270.24	5.78	269.75	4.86	271.98	5.18	260.98	13.53
9/28/2009	263.21	11.68	259.57	13.20	263.73	10.34	259.02	17.26	260.17	14.12	270.00	6.02	269.38	5.23	272.46	4.70	260.80	13.71
12/14/2009	264.27	10.62	262.54	10.23	264.81	9.26	260.06	16.22	260.62	13.67	270.88	5.14	270.31	4.30	272.80	4.36	261.71	12.80
3/23/2010	264.58	10.31	263.52	9.25	265.04	9.03	261.52	14.76	260.97	13.32	270.77	5.25	270.51	4.10	272.28	4.88	262.18	12.33
7/27/2010	261.35	13.54	259.27	13.50	262.89	11.18	258.50	17.78	259.27	15.02	267.27	8.75	267.47	7.14	268.40	8.76	259.34	15.17
9/21/2010	260.71	14.18	258.59	14.18	262.42	11.65	258.06	18.22	258.87	15.42	266.42	9.60	266.83	7.78	268.20	8.96	257.79	16.72
12/13/2010	261.46	13.43	258.49	14.28	262.85	11.22	258.28	18.00	259.30	14.99	267.92	8.10	267.84	6.77	271.31	5.85	259.31	15.20
3/29/2011	263.87	11.02	261.41	11.36	264.34	9.73	259.23	17.05	260.34	13.95	270.76	5.26	269.94	4.67	272.63	4.53	260.13	14.38
6/14/2011	261.85	13.04	260.13	12.64	262.98	11.09	258.73	17.55	259.29	15.00	268.15	7.87	268.06	6.55	269.97	7.19	259.67	14.84
9/20/2011	261.15	13.74	258.49	14.28	263.36	10.71	258.07	18.21	259.98	14.31	267.08	8.94	267.23	7.38	269.35	7.81	259.35	15.16
12/27/2011	264.27	10.62	260.98	11.79	265.77	8.30	258.84	17.44	262.35	11.94	271.16	4.86	269.85	4.76	272.85	4.31	260.87	13.64
3/20/2012	263.40	11.49	261.98	10.79	263.84	10.23	261.58	14.70	259.92	14.37	270.03	5.99	269.51	5.10	271.44	5.72	259.94	14.57
6/19/2012	261.32	13.57	259.12	13.65	262.55	11.52	258.41	17.87	259.14	15.15	-	NA	267.47	7.14	269.18	7.98	258.28	16.23
9/26/2012	260.80	14.09	258.54	14.23	262.36	11.71	258.02	18.26	259.05	15.24	-	NA	266.89	7.72	268.62	8.54	257.96	16.55
12/18/2012	262.01	12.88	258.99	13.78	263.21	10.86	258.54	17.74	259.75	14.54	-	NA	268.21	6.40	271.65	5.51	258.76	15.75
3/12/2013	264.41	10.48	262.67	10.10	264.98	9.09	259.95	16.33	261.09	13.20	-	5.47	270.00	4.61	271.69	5.47	260.80	13.71
6/25/2013	262.63	12.26	261.46	11.31	263.31	10.76	259.50	16.78	259.62	14.67	268.85	7.17	268.76	5.85	270.27	6.89	259.33	15.18
9/16/2013	261.06	13.83	259.15	13.62	262.51	11.56	258.34	17.94	259.11	15.18	-	-	267.18	7.43	268.37	8.79	258.22	16.29
12/16/2013	264.44	10.45	263.76	9.01	264.36	9.71	259.58	16.70	260.38	13.91	270.85	5.17	269.97	4.64	272.09	5.07	260.77	13.74
3/17/2014	263.08	11.81	261.64	11.13	263.82	10.25	259.65	16.63	259.96	14.33	269.67	6.35	269.38	5.23	271.13	6.03	259.76	14.75
6/24/2014	263.11	11.78	262.31	10.46	263.64	10.43	-	-	-	-	-	-	269.16	5.45	270.62	6.54	259.87	14.64
9/9/2014	261.33	13.56	259.60	13.17	262.77	11.30	-	-	-	-	-	-	267.48	7.13	268.73	8.43	258.48	16.03
3/25/2015	-	-	261.83	10.94	264.39	9.68	261.40	14.88	261.73	12.56	-	-	268.96	5.65	268.98	8.18	262.15	12.36

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WELL ID	MW-37	MW-38	MW-38S	MW-39	MW-40	MW-41	MW-42	MW-43	MW-44
WELL DEPTH FROM TOC	27.43	62.24	33.24	67.33	41.56	44.60	46.44	62.80	67.46
TOC ELEVATION	284.60	295.55	295.43	305.67	277.04	284.08	300.99	283.42	292.90

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
9/18/2006	275.48	9.12	270.75	24.80	270.76	24.67	270.34	35.33	266.72	10.32	276.20	7.88	270.36	30.63	269.88	13.54	270.28	22.62
12/182006	275.64	8.96	271.39	24.16	271.17	24.26	270.86	34.81	267.33	9.71	276.80	7.28	270.87	30.12	270.44	12.98	270.76	22.14
3/27/2007	275.98	8.62	271.54	24.01	271.55	23.88	271.17	34.50	267.28	9.76	276.98	7.10	271.17	29.82	270.66	12.76	271.07	21.83
6/19/2007	275.57	9.03	270.91	24.64	270.88	24.55	270.53	35.14	266.78	10.26	276.44	7.64	270.48	30.51	270.04	13.38	270.39	22.51
9/7/2007	275.19	9.41	270.65	24.90	270.66	24.77	270.27	35.40	266.51	10.53	275.93	8.15	270.28	30.71	269.78	13.64	270.18	22.72
12/7/2007	275.17	9.43	270.67	24.88	270.67	24.76	270.34	35.33	267.31	9.73	276.27	7.81	270.28	30.71	269.94	13.48	270.23	22.67
3/10/2008	276.03	8.57	271.54	24.01	271.51	23.92	271.23	34.44	268.81	8.23	277.03	7.05	271.19	29.80	270.90	12.52	271.15	21.75
6/16/2008	275.92	8.68	271.45	24.10	271.45	23.98	271.24	34.43	269.09	7.95	276.86	7.22	271.17	29.82	270.79	12.63	271.11	21.79
9/16/2008	275.40	9.20	270.81	24.74	270.79	24.64	270.35	35.32	267.01	10.03	276.13	7.95	270.36	30.63	269.94	13.48	270.27	22.63
12/2/2008	275.30	9.30	270.80	24.75	270.78	24.65	270.33	35.34	267.22	9.82	276.27	7.81	270.32	30.67	269.92	13.50	270.22	22.68
3/23/2009	276.18	8.42	271.74	23.81	271.73	23.70	-	NS	268.74	8.30	277.04	7.04	271.31	29.68	271.02	12.40	271.26	21.64
6/15/2009	276.50	8.10	270.03	25.52	271.82	23.61	-	NS	269.00	8.04	277.34	6.74	271.55	29.44	271.22	12.20	271.47	21.43
9/28/2009	276.03	8.57	271.14	24.41	271.10	24.33	-	NS	268.21	8.83	276.88	7.20	270.66	30.33	270.42	13.00	270.62	22.28
12/14/2009	276.46	8.14	272.00	23.55	271.94	23.49	-	NS	269.37	7.67	277.41	6.67	271.56	29.43	271.29	12.13	271.49	21.41
3/23/2010	276.98	7.62	272.35	23.20	272.32	23.11	-	NS	269.70	7.34	277.82	6.26	271.91	29.08	271.60	11.82	271.80	21.10
7/27/2010	275.86	8.74	271.07	24.48	271.05	24.38	-	NS	267.13	9.91	276.55	7.53	270.66	30.33	270.20	13.22	270.57	22.33
9/21/2010	275.29	9.31	270.60	24.95	270.61	24.82	-	NS	0.00	0.00	276.03	8.05	270.70	30.29	269.70	13.72	270.10	22.80
12/13/2010	275.27	9.33	270.77	24.78	270.73	24.70	-	NS	267.03	10.01	276.31	7.77	270.31	30.68	269.90	13.52	270.21	22.69
3/29/2011	276.23	8.37	271.51	24.04	271.52	23.91	-	NS	268.77	8.27	277.05	7.03	271.10	29.89	270.84	12.58	270.03	22.87
6/14/2011	275.73	8.87	271.07	24.48	271.10	24.33	-	NS	267.49	9.55	276.46	7.62	270.72	30.27	270.31	13.11	270.64	22.26
9/20/2011	274.86	9.74	270.32	25.23	270.31	25.12	-	NS	266.62	10.42	275.75	8.33	269.66	31.33	269.49	13.93	269.79	23.11
12/27/2011	275.44	9.16	271.04	24.51	271.03	24.40	-	NS	268.38	8.66	276.59	7.49	270.62	30.37	270.36	13.06	270.54	22.36
3/20/2012	275.91	8.69	271.53	24.02	271.55	23.88	-	NS	268.68	8.36	276.79	7.29	271.18	29.81	270.88	12.54	271.10	21.80
6/19/2012	275.14	9.46	270.57	24.98	270.59	24.84	-	NS	266.92	10.12	275.83	8.25	270.20	30.79	269.77	13.65	270.06	22.84
9/26/2012	274.63	9.97	270.22	25.33	270.20	25.23	-	NS	266.37	10.67	276.36	7.72	269.75	31.24	269.33	14.09	269.69	23.21
12/18/2012	275.04	9.56	270.64	24.91	270.64	24.79	-	NS	267.25	9.79	275.48	8.60	270.24	30.75	269.90	13.52	270.17	22.73
3/12/2013	275.95	8.65	271.64	23.91	271.65	23.78	-	NS	269.03	8.01	276.80	7.28	271.25	29.74	270.97	12.45	271.33	21.57
6/25/2013	276.05	8.55	271.61	23.94	271.54	23.89	-	NS	268.12	8.92	276.72	7.36	271.25	29.74	270.88	12.54	271.18	21.72
9/16/2013	275.10	9.50	270.72	24.83	270.69	24.74	-	NS	266.78	10.26	275.74	8.34	270.32	30.67	269.81	13.61	270.21	22.69
12/16/2013	275.69	8.91	271.46	24.09	271.20	24.23	-	-	268.72	8.32	276.56	7.52	270.95	30.04	270.70	12.72	270.88	22.02
3/17/2014	274.00	10.60	271.95	23.60	271.76	23.67	-	-	-	-	276.96	7.12	271.37	29.62	271.05	12.37	271.37	21.53
6/24/2014	276.20	8.40	271.64	23.91	271.63	23.80	-	-	268.50	8.54	276.84	7.24	271.31	29.68	270.91	12.51	271.22	21.68
9/9/2014	275.59	9.01	270.93	24.62	270.91	24.52	-	-	267.06	9.98	276.05	8.03	270.58	30.41	270.10	13.32	270.45	22.45
3/25/2015	277.07	7.53	274.11	21.44	274.67	20.76	-	-	269.46	7.58	275.53	8.55	271.42	29.57	271.85	11.57	272.54	20.36

Water Valley, Mississippi

WELL ID	MW-45	MW-46	MW-47	MW-48	PZ-1	PZ-2
WELL DEPTH FROM TOC	52.03	35.74	39.00	40.00	35.00	35.00
TOC ELEVATION	276.61	270.84	277.25	270.78	271.96	271.33

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
9/18/2006	269.29	7.32	262.10	8.74	-	-	-	-	0.00	0.00	0.00	0.00
12/182006	269.71	6.90	262.43	8.41	-	-	-	-	0.00	0.00	0.00	0.00
3/27/2007	269.99	6.62	262.04	8.80	-	-	-	-	0.00	0.00	0.00	0.00
6/19/2007	269.42	7.19	261.92	8.92	-	-	-	-	0.00	0.00	0.00	0.00
9/7/2007	269.16	7.45	261.64	9.20	-	-	-	-	0.00	0.00	0.00	0.00
12/7/2007	269.27	7.34	262.31	8.53	-	-	-	-	0.00	0.00	0.00	0.00
3/10/2008	270.28	6.33	264.38	6.46	-	-	-	-	0.00	0.00	0.00	0.00
6/16/2008	270.06	6.55	263.39	7.45	-	-	-	-	0.00	0.00	0.00	0.00
9/16/2008	269.22	7.39	262.22	8.62	-	-	-	-	259.00	12.96	259.28	12.05
12/2/2008	269.20	7.41	262.45	8.39	-	-	-	-	0.00	0.00	0.00	0.00
3/23/2009	270.28	6.33	263.70	7.14	-	-	-	-	0.00	0.00	0.00	0.00
6/15/2009	270.55	6.06	263.29	7.55	-	-	-	-	0.00	0.00	0.00	0.00
9/28/2009	269.69	6.92	263.70	7.14	-	-	-	-	0.00	0.00	0.00	0.00
12/14/2009	270.66	5.95	264.61	6.23	-	-	-	-	0.00	0.00	0.00	0.00
3/23/2010	271.11	5.50	265.68	5.16	-	-	-	-	0.00	0.00	0.00	0.00
7/27/2010	269.50	7.11	262.39	8.45	-	-	-	-	0.00	0.00	0.00	0.00
9/21/2010	269.05	7.56	261.71	9.13	-	-	-	-	0.00	0.00	0.00	0.00
12/13/2010	269.16	7.45	262.24	8.60	-	-	-	-	0.00	0.00	0.00	0.00
3/29/2011	270.14	6.47	265.19	5.65	-	-	-	-	0.00	0.00	0.00	0.00
6/14/2011	269.52	7.09	262.74	8.10	-	-	-	-	0.00	0.00	0.00	0.00
9/20/2011	268.85	7.76	262.06	8.78	-	-	-	-	0.00	0.00	0.00	0.00
12/27/2011	269.70	6.91	267.35	3.49	-	-	-	-	0.00	0.00	0.00	0.00
3/20/2012	270.16	6.45	264.17	6.67	-	-	-	-	0.00	0.00	0.00	0.00
6/19/2012	269.06	7.55	262.00	8.84	-	-	-	-	0.00	0.00	0.00	0.00
9/26/2012	268.66	7.95	261.67	9.17	-	-	-	-	0.00	0.00	0.00	0.00
12/18/2012	269.13	7.48	262.66	8.18	-	-	-	-	0.00	0.00	0.00	0.00
3/12/2013	270.29	6.32	265.99	4.85	-	-	-	-	0.00	0.00	0.00	0.00
6/25/2013	270.04	6.57	263.46	7.38	-	-	-	-	0.00	0.00	0.00	0.00
9/16/2013	272.21	4.40	261.97	8.87	-	-	-	-	0.00	0.00	0.00	0.00
12/16/2013	270.66	5.95	264.19	6.65	-	-	-	-				
3/17/2014	270.31	6.30	264.62	6.22	-	-	-	-				
6/24/2014	270.13	6.48	263.78	7.06	270.84	6.41	261.13	9.65				
9/9/2014	269.34	7.27	262.27	8.57	270.25	7.00	259.94	10.84				
3/25/2015	-	-	-	-	271.57	5.68	262.94	7.84				

Key:

TOC = Top of Casing

ELEV = Water Table Elevation, NGVD

NGVD = National Geodetic Vertical Datum, 1929

Shaded = Shallow wells

-- = Casing damaged

- Not measured

Water Valley, Mississippi

March 23, 24 2015

Well Number	Time	Temp (ºC)	Conductivity (µS/cm)	Dissolved oxygen (%)	pH (Sus)	ORP (mV)	Turbidity (NTUs)	Volume Purged (gal.)
MW-11	1405	17.30	59.00	5.30	5.71	-59.70	3.45	1.00
	1410	17.40	57.90	5.06	5.70	-62.70	1.24	2.00
	1415	17.40	57.70	5.04	5.72	-63.70	0.98	3.00
	1420	Samples collected						
MW-22S	845	16.50	59.50	7.22	5.30	-22.00	6.47	1.00
	850	16.50	60.40	6.46	5.29	-38.30	2.21	2.00
	855	16.50	60.60	6.41	5.28	-44.10	0.84	3.00
	900	16.40	60.50	6.47	5.30	-45.90	0.67	4.00
	905	Samples collected						
MW-22D	910	16.40	39.50	9.34	5.77	-47.60	0.36	1.00
	915	16.60	39.70	10.33	5.71	-31.70	0.51	2.00
	920	16.70	39.20	8.32	5.47	-41.90	0.65	3.00
	925	16.70	39.50	7.90	5.40	-45.10	0.42	4.00
	930	Samples collected						
MW-25D	1510	17.70	49.30	4.32	5.57	-59.00	3.87	1.00
	1515	17.90	50.30	4.20	5.57	-60.10	4.12	2.00
	1520	17.80	50.40	4.15	5.58	-60.80	2.61	3.00
	1525	17.90	50.30	4.09	5.57	-60.60	2.40	4.00
	1530	Samples collected						
MW-27	1120	20.30	308.00	5.69	5.51	-27.40	15.30	1.00
	1125	20.30	206.00	0.87	5.50	14.00	5.40	2.00
	1130	20.30	197.00	0.73	5.47	13.20	4.86	3.00
	1135	20.30	184.00	0.91	5.46	-10.20	3.40	4.00
	1140	Samples collected						
MW-28S	1350	16.30	166.90	0.66	5.99	-104.00	21.80	1.00
	1355	16.40	166.90	0.55	6.01	-102.20	16.40	2.00
	1400	16.40	167.50	0.45	6.01	-102.40	8.90	3.00
	1405	16.50	168.10	0.45	6.00	-94.30	3.63	4.00
	1410	Samples collected						
MW-28D	1420	17.20	170.20	1.12	6.02	-82.90	6.33	1.00
	1425	17.30	171.00	0.42	6.01	-97.00	0.86	2.00
	1430	17.30	171.60	0.09	6.01	-79.60	0.72	3.00
	1440	Samples collected						
MW-30D	850	16.00	69.10	5.49	5.32	3.50	2.38	1.00
	855	16.10	68.90	4.43	5.34	3.80	2.41	2.00
	900	16.00	68.20	4.70	5.31	3.00	2.63	3.00
	905	16.10	68.70	4.51	5.31	2.90	2.68	4.00
	915	Samples collected						
MW-30S	930	12.80	43.10	2.50	4.97	-15.30	4.00	1.00
	935	13.10	39.10	0.51	4.85	-6.40	3.65	2.00
	940	13.30	40.70	1.21	4.91	-7.60	3.21	3.00
	945	13.20	40.90	1.10	4.92	-5.80	3.48	4.00
	950	Samples collected, FD, MS/MSD						
MW-31S	1145	15.70	130.20	2.09	5.79	-7.70	125.00	1.00
	1150	15.70	153.20	1.09	5.95	-8.90	40.00	2.00
	1155	15.70	172.30	0.49	5.89	-8.60	17.70	3.00
	1200	15.70	176.30	0.43	5.89	-8.70	6.91	4.00
	1205	15.70	178.40	0.41	5.89	-9.40	4.31	5.00
	1210	Samples collected						
MW-31D	1105	16.20	83.20	6.17	6.00	-59.80	1.26	1.00
	1110	16.30	82.90	5.73	6.00	-74.70	0.60	2.00
	1115	16.40	86.10	4.59	5.89	-76.40	0.51	3.00
	1120	16.40	89.20	3.89	5.60	-72.00	0.42	4.00
	1130	Samples collected						

Water Valley, Mississippi

March 23, 24 2015

Well Number	Time	Temp (ºC)	Conductivity (µS/cm)	Dissolved oxygen (%)	pH (Sus)	ORP (mV)	Turbidity (NTUs)	Volume Purged (gal.)
MW-34	1510	16.90	42.10	6.91	5.12	-49.30	6.70	1.00
	1515	16.90	41.70	0.82	5.16	-78.10	4.52	2.00
	1520	16.90	41.50	0.78	5.10	-72.40	3.71	3.00
	1525	Samples collected						
MW-35	1020	16.40	71.80	2.30	5.22	-18.70	6.78	1.00
	1025	16.30	73.40	2.49	5.28	-7.60	5.42	2.00
	1030	16.40	72.60	0.71	5.24	-5.70	4.02	3.00
	1035	16.50	73.40	0.60	5.28	-7.50	3.20	4.00
	1040	16.50	72.70	0.56	5.28	-7.80	3.46	5.00
	1045	Samples collected, FD						
MW-37	1145	19.80	170.00	3.89	5.92	-57.20	12.10	1.00
	1150	20.00	170.00	3.79	5.74	-51.30	4.52	2.00
	1155	20.10	170.80	4.16	5.64	-51.60	1.96	3.00
	1200	20.30	171.00	3.63	5.58	-47.10	2.12	4.00
	1205	Samples collected						
MW-38S	1010	18.20	122.00	4.40	5.53	-46.50	17.60	1.00
	1015	18.20	125.00	3.67	5.54	-60.40	12.10	2.00
	1020	18.20	127.00	3.94	5.55	-61.00	9.64	3.00
	1025	18.20	127.00	4.02	5.59	-58.80	7.24	4.00
	1030	Samples collected						
MW-38	1040	19.30	70.40	2.52	6.14	-63.60	24.60	1.00
	1045	18.40	72.00	2.26	6.10	-63.60	9.72	2.00
	1050	18.50	72.20	2.22	6.05	-67.00	6.52	3.00
	1055	18.50	72.40	2.06	6.07	-60.10	5.91	4.00
	1100	Samples collected						
MW-41	1435	18.40	40.80	7.83	5.22	-38.20	4.91	1.00
	1440	18.30	40.20	7.26	5.26	-57.30	1.42	2.00
	1445	18.40	40.40	7.24	5.26	-59.10	0.98	3.00
	1450	18.40	40.30	7.20	5.26	-58.20	0.76	4.00
	1455	Samples collected						
MW-44	1550	18.20	52.70	7.28	5.34	-19.30	7.98	1.00
	1555	18.30	52.40	5.39	5.34	-53.80	4.32	2.00
	1600	18.30	52.80	4.92	5.37	-59.60	2.61	3.00
	1605	18.40	51.90	5.01	5.37	-60.40	2.21	4.00
	1610	Samples collected						
MW-45	Well area flooded. No access.							
MW-46	Well area flooded. No access.							
MW-47	920	16.40	133.00	2.20	5.91	-16.80	32.00	1.00
	925	16.50	125.00	1.46	5.87	-45.90	76.00	2.00
	930	16.20	112.00	1.99	5.85	-56.70	12.20	3.00
	935	16.40	109.00	2.01	5.84	-56.30	13.80	4.00
	940	16.40	105.00	2.05	5.84	-55.60	12.80	5.00
	945	Samples collected						
MW-48	830	16.80	107.30	0.73	5.28	51.80	8.46	1.00
	840	16.90	94.20	1.36	5.29	0.90	3.29	2.00
	845	16.90	92.60	0.66	5.28	-25.40	2.46	3.00
	850	17.00	91.00	0.58	5.38	-33.10	1.87	4.00
	855	Samples collected						

Key:
mV= Millivolts
ORP = Oxidation/Reduction Potential
^{o}C = degrees Celsius
µS/cm = MicroSiemens per centimeter
NTU = Nephelometric Turbidity Unit

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-10	3/14/2013	**9.7**	<1.0	2	<1.0	<1.0
MW-11	9/20/2006	**300**	<10	<10	<10	<10
	12/19/2006	**160**	<10	<10	<10	<10
	3/27/2007	**230**	<5.0	<5.0	<5.0	<5.0
	6/20/2007	**210**	1.1	<1.0	<1.0	<1.0
	9/8/2007	**160**	<5.0	<5.0	<5.0	<5.0
	12/5/2007	**210**	1.9	<1.0	<1.0	<1.0
	3/11/2008	**740**	5.2	<1.0	<1.0	<1.0
	6/16/2008	**620**	<10	<10	<10	<10
	9/18/2008	**260**	<10	<10	<10	<10
	12/4/2008	**340**	<8.6	<8.6	<8.6	<8.6
Dup	12/4/2008	**330**	<8.6	<8.6	<8.6	<8.6
	3/25/2009	**680**	<10	<10	<10	<10
	6/16/2009	**850**	<10	<10	<10	<10
	9/29/2009	**260**	<10	<10	<10	<10
	12/15/2009	**550**	<1.0	<1.0	<1.0	<1.0
	3/24/2010	**580**	11	<1.0	<1.0	<1.0
	7/28/2010	**250**	<10	<10	<10	<10
	9/22/2010	**300**	7.9	<5.0	<5.0	<5.0
	12/14/2010	**300**	11	<5.0	<5.0	<5.0
	3/30/2011	**450**	11	<5.0	<5.0	<5.0
	6/15/2011	**270**	<10	<10	<10	<10
	9/21/2011	**270**	15	<10	<10	<10
	12/28/2011	**430**	13	<10	<10	<10
	3/21/2012	**610**	13	<10	<10	<10
	6/20/2012	**320**	12	<10	<10	<10
	9/26/2012	**250**	11	<10	<10	<10
	12/19/2012	**320**	12	<10	<10	<10
	3/13/2013	**730**	21	<10	<10	<10
	6/28/2013	**590**	20	<20	<20	<20
	9/25/2013	**310**	15	<5.0	<5.0	<5.0
	12/18/2013	**560**	19	<1.0	<1.0	<1.0
	3/18/2014	**950**	27	<1.0	<1.0	<1.0
	6/24/2014	**630**	24	<1.0	<1.0	<1.0
	9/8/2014	**330**	18	<2.0	<2.0	<2.0
	3/24/2015	**1600**	57	<20.0	<20.0	<20.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-12	3/14/2013	**40**	<1.0	<1.0	<1.0	<1.0
MW-14	3/14/2013	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	3/14/2013	3.7	<1.0	<1.0	<1.0	<1.0
MW-16	3/14/2013	**7.4**	<1.0	<1.0	<1.0	<1.0
MW-22S*	9/19/2006	**4300**	**130**	<1.0	16	<100
Dup	9/19/2006	**4100**	**130**	<100	<100	<100
	12/19/2006	**3300**	**170**	<100	<100	<100
	3/27/2007	**3700**	**170**	<100	<100	<100
	6/20/2007	**3200**	**190**	<100	<100	<100
	9/9/2007	**2200**	**160**	<100	<100	<100
	12/5/2007	**2800**	**150**	<100	<100	<100
	3/11/2008	**3300**	**220**	<1.0	<1.0	<1.0
	6/16/2008	**4600**	**290**	<50	<50	<50
	9/18/2008	<50	<50	<50	<50	<50
	12/3/2008	<50	<50	<50	<50	<50
	3/25/2009	<50	<50	<50	<50	<50
	6/16/2009	<50	<50	<50	<50	<50
	9/29/2009	<50	<50	<50	<50	<50
	12/15/2009	**1200**	53	<50	<50	<50
	3/24/2010	**1500**	**78**	<50	<50	<50
	7/28/2010	**5200**	**180**	<50	<50	<50
	9/22/2010	**3200**	**170**	<100	<100	<100
	12/14/2010	**3300**	**220**	<100	<100	<100
	3/30/2011	**3700**	**290**	<100	<100	<100
	6/15/2011	**3000**	**190**	<100	<100	<100
	9/21/2011	**2900**	**220**	<50	<50	<50
	12/28/2011	**4300**	**330**	<50	<50	<50
	3/21/2012	**3200**	**200**	<50	<50	<50
	6/20/2012	**2400**	**170**	<50	<50	<50
	9/26/2012	**2100**	**160**	<50	<50	<50
	12/19/2012	**2800**	**180**	<50	<50	<50
	3/13/2013	**2800**	**180**	<50	<50	<50
Dup	3/13/2013	**2500**	**170**	<50	<50	<50
	6/28/2013	**2100**	**150**	<50	<50	<50
	9/25/2013	**2800**	**220**	<50	<50	<50
	12/17/2013	**1900**	**140**	<50	<50	<50
	3/18/2014	**3600**	**250**	<10	<10	<10
	6/24/2014	**2700**	**160**	<10	<10	<10
Dup	6/24/2014	**2700**	**170**	<10	<10	<10
Dup	9/8/2014	**3100**	**230**	<10	<10	<10
	3/25/2015	**2800**	**190**	<50.0	<50.0	<50.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-10	3/14/2013	**9.7**	<1.0	2	<1.0	<1.0
MW-22D	9/19/2006	**860**	60	<25	<25	<25
Dup	9/19/2006	**900**	59	<25	<25	<25
	12/19/2006	**490**	58	<25	<25	<25
	3/27/2007	**510**	49	<25	<25	<25
	6/20/2007	**830**	**100**	<25	<25	<25
	9/9/2007	**640**	**84**	<25	<25	<25
	12/5/2007	**590**	**75**	<25	<25	<25
	3/11/2008	**640**	**82**	<1.0	<1.0	<1.0
	6/16/2008	**1200**	**150**	<10	<10	<10
	9/18/2008	**1200**	**130**	<10	<10	<10
	12/3/2008	**1000**	**130**	<50	<50	<10
	3/25/2009	**1900**	**250**	<50	<50	<50
	6/16/2009	**820**	**85**	<50	<50	<50
	9/29/2009	**640**	65	<50	<50	<50
	12/15/2009	**730**	**86**	<50	<50	<50
	3/24/2010	**700**	**73**	<50	<50	<50
	7/28/2010	**650**	**75**	<50	<50	<50
	9/22/2010	**910**	**75**	<10	<10	<10
	12/14/2010	**690**	**76**	<10	<10	<10
	3/30/2011	**940**	**100**	<10	<10	<10
	6/15/2011	**820**	**84**	<10	<10	<10
	9/21/2011	**940**	**110**	<50	<50	<50
	12/28/2011	**1300**	**120**	<50	<50	<50
	3/21/2012	**710**	65	<50	<50	<50
	6/20/2012	**780**	**80**	<10	<10	<10
	9/26/2012	**760**	**75**	<10	<10	<10
	12/19/2012	**880**	**79**	<10	<10	<10
	3/13/2013	**590**	60	<10	<10	<10
	6/28/2013	**640**	**72**	<10	<10	<10
	9/25/2013	**660**	**70**	<10	<10	<10
	12/17/2013	**730**	**73**	<10	<10	<10
	3/18/2014	**830**	**86**	<1.0	<1.0	<1.0
	6/24/2014	**650**	67	<1.0	<1.0	<1.0
	9/8/2014	**780**	**90**	<2.0	<2.0	<2.0
	3/25/2015	**690**	**72**	<10.0	<10.0	<10.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-25D	9/19/2006	**91**	<1.0	<1.0	<1.0	<1.0
	12/19/2006	**71**	1	<1.0	<1.0	<1.0
	3/27/2007	**89**	5.3	<1.0	<1.05	<1.0
	6/20/2007	**93**	1.1	<1.0	<1.0	<1.0
	9/9/2007	**72**	1.4	<1.0	<1.0	<1.0
	12/5/2007	**93**	1.3	<1.0	<1.0	<1.0
	3/11/2008	**65**	2.1	<1.0	<1.0	<1.0
	6/16/2008	**130**	2.6	<1.0	<1.0	<1.0
	9/17/2008	**120**	<5.0	<1.0	<1.0	<1.0
	12/3/2008	**110**	<5.0	<5.0	<5.0	<5.0
	3/24/2009	**140**	<5.0	<5.0	<5.0	<5.0
	6/16/2009	**100**	<5.0	<5.0	<5.0	<5.0
	9/29/2009	**140**	<5.0	<5.0	<5.0	<5.0
	12/15/2009	**94**	<5.0	<5.0	<5.0	<5.0
	3/24/2010	**110**	<5.0	<5.0	<5.0	<5.0
	7/28/2010	**150**	<5.0	<5.0	<5.0	<5.0
	9/22/2010	**160**	<5.0	<5.0	<5.0	<5.0
	12/14/2010	**140**	<5.0	<5.0	<5.0	<5.0
	3/30/2011	**150**	6.7	<5.0	<5.0	<5.0
	6/15/2011	**160**	5.3	<5.0	<5.0	<5.0
	9/21/2011	**180**	10	<5.0	<5.0	<5.0
	12/28/2011	**210**	10	<5.0	<5.0	<5.0
	3/21/2012	**170**	7.3	<5.0	<5.0	<5.0
	6/19/2012	**170**	9.4	<5.0	<5.0	<5.0
	9/26/2012	**170**	9.4	<5.0	<5.0	<5.0
	12/19/2012	**190**	12	<5.0	<5.0	<5.0
Dup	12/19/2012	**190**	11	<5.0	<5.0	<5.0
	3/13/2013	**180**	11	<5.0	<5.0	<5.0
	6/28/2013	**180**	12	<5.0	<5.0	<5.0
	9/25/2013	**220**	16	<1.0	<1.0	<1.0
	12/17/2013	**210**	15	<10	<10	<10
Dup	12/17/2013	**220**	16	<10	<10	<10
	3/18/2014	**320**	19	<1.0	<1.0	<1.0
	6/24/2014	**250**	20	<1.0	<1.0	<1.0
	9/8/2014	**270**	24	<1.0	<1.0	<1.0
	3/24/2015	**350**	27	<2.0	<2.0	<2.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-27*	9/20/2006	**660**	**320**	<25	<25	<25
	12/19/2006	**220**	**140**	<10	<10	<10
	3/27/2007	**700**	**490**	<10	14	<10
	6/21/2007	**520**	**440**	<10	16	**14**
	9/9/2007	**550**	**250**	<10	<10	<10
	12/5/2007	**350**	**190**	<10	<10	<10
	3/12/2008	**1200**	**190**	1.7	3.7	1.6
	6/16/2008	**1300**	**340**	<20	<20	<20
	9/18/2008	**1100**	**290**	<20	<20	<20
	12/4/2008	**1200**	**200**	<17	<17	<17
	3/25/2009	**940**	**380**	<50	<50	<50
	6/16/2009	**740**	**260**	<50	<50	<50
	9/29/2009	**640**	**100**	<50	<50	<50
	12/16/2009	**590**	64	<50	<50	<50
	3/24/2010	**600**	**170**	<50	<50	<50
	7/28/2010	**870**	**170**	<50	<50	<50
	9/22/2010	**750**	**170**	<20	<20	<20
	12/14/2010	**410**	37	<20	<20	<20
	3/30/2011	**450**	**83**	<1.0	2.1	1.8
	6/16/2011	**900**	**170**	1.5	4.1	1.3
	9/21/2011	**760**	**120**	<50	<50	<50
	12/28/2011	**1200**	**130**	<50	<50	<50
	3/21/2012	**720**	**160**	<50	<50	<50
	6/20/2012	**740**	**160**	<20	<20	<20
	9/26/2012	**650**	**140**	<20	<20	<20
	12/19/2012	**810**	**110**	<20	<20	<20
	3/13/2013	**470**	**130**	<20	<20	<20
	6/28/2013	**750**	**310**	<20	<20	<20
	9/25/2013	**1000**	**200**	<20	<20	<20
	12/17/2013	**850**	**100**	<20	<20	<20
	3/18/2014	**1000**	**200**	3.0	9.7	<2.0
Dup	3/18/2014	**940**	**190**	3.1	9.7	**2.0**
	6/24/2014	**950**	**190**	2.9	10	<2.0
	9/9/2014	**1200**	**250**	<2.0	9.9	<2.0
	3/24/2015	**720**	**130**	<10.0	<10.0	<10.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-28S*	9/19/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	12/18/2006	1.2	<1.0	<1.0	<1.0	<1.0
	3/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	3/10/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/17/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/3/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/29/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/13/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/29/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/27/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-30S*	9/18/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	12/18/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	3/26/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	3/10/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/2/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/28/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/13/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/29/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/27/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0
Dup	3/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-30D	9/18/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	12/18/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	3/26/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	3/10/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/2/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/28/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/13/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/29/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/27/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	1.2	<1.0	<1.0	<1.0	<1.0
	9/8/2014	2.1	<1.0	<1.0	<1.0	<1.0
	3/23/2015	3.1	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-31S*	9/18/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	12/18/2006	<1.0	<1.0	<1.0	<1.0	<1.0
	3/26/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	3/10/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/3/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/28/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/13/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/29/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/27/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-31D	9/18/2006	1.3	<1.0	<1.0	<1.0	<1.0
	12/18/2006	1.3	<1.0	<1.0	<1.0	<1.0
	3/26/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	6/19/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2007	1.1	<1.0	<1.0	<1.0	<1.0
	3/10/2008	3.6	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**5.9**	<1.0	<1.0	<1.0	<1.0
	9/16/2008	**5.5**	<1.0	<1.0	<1.0	<1.0
	12/3/2008	**6.3**	<1.0	<1.0	<1.0	<1.0
	3/24/2009	**7.9**	1.2	<1.0	<1.0	<1.0
	6/15/2009	**8.8**	1.3	<1.0	<1.0	<1.0
	9/29/2009	**14**	2.3	<1.0	<1.0	<1.0
	12/14/2009	**12**	2.5	<1.0	<1.0	<1.0
	3/23/2010	**18**	3.4	<1.0	<1.0	<1.0
	7/27/2010	**24**	5.2	<1.0	<1.0	<1.0
	9/21/2010	**38**	8.4	<1.0	<1.0	<1.0
	12/13/2010	**43**	6.8	<1.0	<1.0	<1.0
	3/29/2011	**38**	7.9	<1.0	<1.0	<1.0
	6/14/2011	**31**	5.8	<1.0	<1.0	<1.0
	9/20/2011	**42**	7.6	<1.0	<1.0	<1.0
	12/27/2011	**75**	16	<1.0	<1.0	<1.0
	3/20/2012	**31**	7.2	<1.0	<1.0	<1.0
	6/19/2012	**38**	9.1	<1.0	<1.0	<1.0
	9/26/2012	**58**	13	<1.0	<1.0	<1.0
	12/19/2012	**72**	14	<1.0	<1.0	<1.0
	3/12/2013	**60**	12	<1.0	<1.0	<1.0
	6/28/2013	**39**	10	<1.0	<1.0	<1.0
	9/25/2013	**62**	14	<1.0	<1.0	<1.0
	12/16/2013	**92**	19	<1.0	<1.0	<1.0
	3/18/2014	**95**	14	<1.0	<1.0	<1.0
	3/23/2015	**58**	13	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-34	9/19/2006	**90**	4.4	<1.0	<1.0	<1.0
	12/19/2006	**19**	<1.0	<1.0	<1.0	<1.0
Dup	12/19/2006	**19**	<1.0	<1.0	<1.0	<1.0
	3/27/2007	**7.6**	<1.0	<1.0	<1.0	<1.0
	6/19/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/5/2007	**22**	1.1	<1.0	<1.0	<1.0
	3/11/2008	**48**	1.3	<1.0	<1.0	<1.0
	6/16/2008	**44**	1.6	<1.0	<1.0	<1.0
	9/17/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/18/2008	<1.0	<1.1	<1.0	<1.0	<1.0
	3/24/2009	<1.0	<1.2	<1.0	<1.0	<1.0
	6/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/29/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2009	1.6	<1.0	<1.0	<1.0	<1.0
	3/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/27/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/30/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/28/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/14/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/23/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-35*	9/18/2006	**27**	<1.0	<1.0	<1.0	<1.0
	12/18/2006	**14**	<1.0	<1.0	<1.0	<1.0
	3/26/2007	**23**	<1.0	<1.0	<1.0	<1.1
	6/19/2007	**22**	<1.0	<1.0	<1.0	<1.0
	9/8/2007	**24**	<1.0	<1.0	<1.0	<1.0
	12/4/2007	**25**	<1.0	<1.0	<1.0	<1.0
	3/10/2008	**28**	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**63**	<1.0	<1.0	<1.0	<1.0
	9/16/2008	**56**	<1.0	<1.0	<1.0	<1.0
	12/2/2008	**59**	<1.0	<1.0	<1.0	<1.0
	3/24/2009	**74**	<1.0	<1.0	<1.0	<1.0
	6/15/2009	**70**	<1.0	<1.0	<1.0	<1.0
	9/28/2009	**83**	<1.0	<1.0	<1.0	<1.0
	12/14/2009	**78**	<5.0	<5.0	<5.0	<5.0
	3/23/2010	**89**	<1.0	<1.0	<1.0	<1.0
	7/27/2010	**58**	<1.0	<1.0	<1.0	<1.0
	9/21/2010	**84**	<2.0	<2.0	<2.0	<2.0
	12/13/2010	**88**	<1.0	<1.0	<1.0	<1.0
	3/29/2011	**130**	<2.0	<2.0	<2.0	<2.0
	6/14/2011	**98**	<2.0	<2.0	<2.0	<2.0
	9/20/2011	**230**	3	<2.0	<2.0	<2.0
	12/27/2011	**330**	<10	<10	<10	<10
	3/20/2012	**170**	<10	<10	<10	<10
	6/19/2012	**220**	<5.0	<5.0	<5.0	<5.0
	9/26/2012	**170**	<5.0	<5.0	<5.0	<5.0
	12/19/2012	**310**	4.2	<5.0	<5.0	<5.0
	3/12/2013	**290**	<5.0	>5.0	>5.0	>5.0
	6/28/2013	**260**	<10	<10	<10	<10
	9/25/2013	**240**	4.7	<1.0	<1.0	<1.0
	12/26/2013	**260**	5.2	<1.0	<1.0	<1.0
	3/18/2014	**320**	4.3	<1.0	<1.0	<1.0
	6/24/2014	**240**	4.6	<1.0	<1.0	<1.0
	9/8/2014	**310**	6.1	<1.0	<1.0	<1.0
	3/23/2015	**230**	4.4	<2.0	<2.0	<2.0
Dup	3/23/2015	**230**	4.3	<2.0	<2.0	<2.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-37*	9/20/2006	**880**	60	<50	<50	<50
	12/19/2006	**490**	59	<20	<20	<20
	3/27/2007	**440**	44	<20	<20	<20
	6/21/2007	**580**	62	<20	<20	<20
	9/8/2007	**680**	**74**	<20	<20	<20
	12/5/2007	**810**	**79**	<20	<20	<20
	3/12/2008	**940**	**96**	<1.0	<1.0	<1.0
	6/16/2008	**1100**	**110**	<20	<20	<20
	9/18/2008	**590**	60	<20	<20	<20
	12/4/2008	**890**	**99**	<17	<17	<17
	3/25/2009	**460**	41	<10	<10	<10
	6/17/2009	**820**	**89**	<10	<10	<10
	9/29/2009	**600**	55	<10	<10	<10
	12/16/2009	**590**	59	<10	<10	<10
	3/24/2010	**720**	63	<10	<10	<10
	7/28/2010	**690**	64	<10	<10	<10
	9/22/2010	**740**	69	<10	<10	<10
	12/14/2010	**760**	**79**	<10	<10	<10
	3/30/2011	**980**	**100**	<10	<10	<10
	6/16/2011	**900**	**100**	<10	<10	<10
	9/21/2011	**720**	66	<10	<10	<10
	12/28/2011	**890**	**100**	<10	<10	<10
Dup	12/28/2011	**840**	**91**	<10	<10	<10
	3/21/2012	**830**	**88**	<10	<10	<10
	6/20/2012	**590**	64	<20	<20	<20
	9/26/2012	**500**	50	<20	<20	<20
	12/19/2012	**670**	69	<20	<20	<20
	3/13/2013	**960**	**100**	<20	<20	<20
	6/28/2013	**660**	**78**	<20	<20	<20
	9/25/2013	**720**	**83**	<20	<20	<20
	12/17/2013	**620**	66	<20	<20	<20
	3/18/2014	**790**	**99**	<2.0	2.0	<2.0
	6/25/2014	**650**	**78**	<2.0	<2.0	<2.0
	9/9/2014	**700**	**87**	<2.0	<2.0	<2.0
DUP	9/9/2014	**700**	**86**	<2.0	<2.0	<2.0
	3/24/2015	**790**	**88**	<10.0	<10.0	<10.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-38	9/20/2006	1.8	<1.0	<1.0	<1.0	<1.0
	12/19/2006	**9.1**	<10	<1.0	<1.0	<1.0
	3/27/2007	**6.2**	1	<1.0	<1.0	<1.0
	6/20/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2007	**12**	1	<1.0	<1.0	<1.0
	12/6/2007	**9.1**	<1.0	<1.0	<1.0	<1.0
	3/12/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**16**	<1.0	<1.0	<1.0	<1.0
	9/17/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/26/2009	**25**	<1.0	<1.0	<1.0	<1.0
	6/17/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2009	NA	**NA**	NA	NA	NA
	3/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/30/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/28/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-38S*	9/20/2006	**35**	1.5	<1.0	<1.0	<1.0
	12/19/2006	**16**	<1.0	<1.0	<1.0	<1.0
	3/27/2007	**15**	1.6	<1.0	<1.0	<1.0
	6/20/2007	**14**	<1.0	<1.0	<1.0	<1.0
	9/9/2007	**30**	1.8	<1.0	<1.0	<1.0
Dup	9/9/2007	**32**	1.8	<1.0	<1.0	<1.0
	12/6/2007	**13**	<1.0	<1.0	<1.0	<1.0
	3/12/2008	5.4	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**20**	1.1	<1.0	<1.0	<1.0
	9/16/2008	2.7	1.1	<1.0	<1.0	<1.0
	12/4/2008	3.4	<1.0	<1.0	<1.0	<1.0
	3/26/2009	**84**	<1.0	<1.0	<1.0	<1.0
	6/17/2009	3.5	<1.0	<1.0	<1.0	<1.0
	9/30/2009	4.5	<1.0	<1.0	<1.0	<1.0
	12/16/2009	2.7	<1.0	<1.0	<1.0	<1.0
	3/24/2010	2.8	<1.0	<1.0	<1.0	<1.0
	7/28/2010	**15**	<1.0	<1.0	<1.0	<1.0
	9/22/2010	**10**	<1.0	<1.0	<1.0	<1.0
	12/14/2010	2.2	<1.0	<1.0	<1.0	<1.0
	3/30/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2011	4.7	<1.0	<1.0	<1.0	<1.0
	9/21/2011	**6.1**	<1.0	<1.0	<1.0	<1.0
	12/28/2011	3.7	<1.0	<1.0	<1.0	<1.0
	3/21/2012	3.4	<1.0	<1.0	<1.0	<1.0
	6/20/2012	**9.6**	<1.0	<1.0	<1.0	<1.0
	9/26/2012	2.5	<1.0	<1.0	<1.0	<1.0
	12/19/2012	1.2	<1.0	<1.0	<1.0	<1.0
	3/13/2013	1.7	<1.0	<1.0	<1.0	<1.0
	6/28/2013	**9.6**	<1.0	<1.0	<1.0	<1.0
	9/25/2013	**14**	<1.0	<1.0	<1.0	<1.0
	12/17/2013	2.6	<1.0	<1.0	<1.0	<1.0
	3/18/2014	3.9	<1.0	<1.0	<1.0	<1.0
	6/24/2014	**7.5**	<1.0	<1.0	<1.0	<1.0
	9/9/2014	**12**	<1.0	<1.0	<1.0	<1.0
	3/24/2015	1.1	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-41	12/19/2006	**170**	17	<10	<10	<10
	3/27/2007	**250**	16	<5	<5	<5
	3/27/2007	**240**	16	<5	<5	<5
Dup	6/20/2007	**240**	25	<1.0	<1.0	<1.0
	9/8/2007	**200**	20	<5.0	<5.0	<5.0
	12/4/2007	**240**	21	<5.0	<5.0	*<5.0*
	3/11/2008	**250**	35	<1.0	<1.0	<1.0
	6/16/2008	**400**	44	<1.0	<1.0	<1.0
	9/17/2008	**460**	38	<1.0	<1.0	<1.0
	12/3/2008	**450**	43	<10	<10	<10
	3/24/2009	**620**	**75**	<10	<10	<10
	6/16/2009	**520**	39	<10	<10	<10
	9/29/2009	**390**	34	<1.0	<1.0	<1.0
	12/15/2009	**400**	37	<10	<10	<10
	3/24/2010	**390**	33	<10	<10	<10
	7/28/2010	**490**	47	<10	<10	<10
	9/22/2010	**570**	64	<10	<10	<10
	12/14/2010	**480**	46	<20	<20	<20
	3/30/2011	**600**	61	<20	<20	<20
	6/15/2011	**500**	46	<20	<20	<20
	9/21/2011	**560**	51	<10	<10	<10
	12/28/2011	**720**	**83**	<20	<20	<20
	3/21/2012	**550**	51	<20	<20	<20
	6/19/2012	**480**	53	<20	<20	<20
	9/26/2012	**450**	45	<20	<20	<20
	12/19/2012	**550**	57	<20	<20	<20
	3/3/2013	**540**	57	<20	<20	<20
	6/28/2013	**530**	57	<10	<10	<10
	9/25/2013	**630**	65	<20	<20	<20
	12/17/2013	**540**	58	<10	<10	<10
	3/18/2014	**1000**	**82**	<1.0	<1.0	<1.0
	6/24/2014	**540**	55	<1.0	<1.0	<1.0
	9/8/2014	**590**	**70**	<2.0	<2.0	<2.0
	3/24/2015	**620**	66	<10.0	<10.0	<10.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-43	6/20/2012	**600**	<10	<10	<10	<10
MW-44	9/20/2006	**400**	<10	<10	<10	<10
	12/20/2006	**370**	<10	<10	<10	<10
	12/20/2006	**350**	<10	<10	<10	<10
Dup	3/28/2007	**350**	<10	<10	<10	<10
	6/20/2007	**510**	<10	<10	<10	<10
	9/9/2007	**410**	<10	<10	<10	<10
	12/6/2007	**690**	<10	<10	<10	<10
	3/11/2008	**1000**	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**1100**	<20	<20	<20	<20
	9/18/2008	**1000**	<20	<20	<20	<20
	12/4/2008	**1400**	<17	<17	<17	<17
	3/26/2009	**2100**	<50	<50	<50	<50
	6/17/2009	**2100**	<50	<50	<50	<50
	9/30/2009	**2200**	<50	<50	<50	<50
	12/16/2009	**3500**	<50	<50	<50	<50
	3/24/2010	**2600**	<50	<50	<50	<50
	7/28/2010	**2800**	<50	<50	<50	<50
	9/22/2010	**2100**	<50	<50	<50	<50
	12/15/2010	**2700**	<50	<50	<50	<50
	3/30/2011	**3200**	<50	<50	<50	<50
	6/16/2011	**3400**	<50	<50	<50	<50
	9/21/2011	**3000**	<50	<50	<50	<50
	12/29/2011	**4300**	<50	<50	<50	<50
	3/21/2012	**3500**	<50	<50	<50	<50
Dup	3/21/2012	**3300**	<50	<50	<50	<50
	6/20/2012	**3500**	<500	<500	<500	<500
	6/20/2012	**2700**	<50	<50	<50	<50
	9/26/2012	**3100**	<100	<100	<100	<100
Dup	9/26/2012	**3100**	<100	<100	<100	<100
	12/19/2012	**3500**	<100	<100	<100	<100
	3/13/2013	**3000**	<100	<100	<100	<100
	6/28/2013	**3300**	<100	<100	<100	<100
	9/25/2013	**3200**	<100	<100	<100	<100
	12/17/2013	**3300**	<100	<100	<100	<100
	3/18/2014	**3100**	68	<10	<10	<10
	6/24/2014	**2300**	**75**	<1.0	<1.0	<1.0
	9/9/2014	**2700**	**86**	<5.0	<5.0	<5.0
	3/24/2015	**2500**	**74**	<50.0	<50.0	<50.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-45	12/20/2006	**9.1**	<1.0	<1.0	<1.0	<1.0
	3/28/2007	**9.6**	<1.0	<1.0	<1.0	<1.0
	6/20/2007	**6.5**	<1.0	<1.0	<1.0	<1.0
	9/9/2007	**14**	<1.0	<1.0	<1.0	<1.0
	12/6/2007	**18**	<1.0	<1.0	<1.0	<1.0
	3/12/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**31**	<1.0	<1.0	<1.0	<1.0
	9/17/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/17/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/31/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/15/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/29/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	6/20/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	9/25/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	12/18/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2015	NS	NS	NS	NS	NS

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-46	9/21/2006	**36**	<1.0	<1.0	<1.0	<1.0
Dup	12/20/2006	**32**	<1.0	<1.0	<1.0	<1.0
	3/28/2007	**49**	<1.0	<1.0	<1.0	<1.0
	6/20/2007	**39**	<1.0	<1.0	<1.0	<1.0
	9/9/2007	**39**	<1.0	<1.0	<1.0	<1.0
	12/6/2007	**36**	<1.0	<1.0	<1.0	<1.0
	3/12/2008	**64**	<1.0	<1.0	<1.0	<1.0
	6/16/2008	**63**	1.4	<1.0	<1.0	<1.0
	9/17/2008	**30**	17	<1.0	<1.0	<1.0
	12/4/2008	**40**	13	<1.0	<1.0	<1.0
	3/25/2009	**63**	4.2	<1.0	<1.0	<1.0
	6/17/2009	**50**	7.7	<1.0	<1.0	<1.0
	9/30/2009	**69**	8.0	<1.0	<1.0	<1.0
	12/16/2009	**64**	2.2	<1.0	<1.0	<1.0
	3/24/2010	**25**	<1.0	<1.0	<1.0	<1.0
	7/28/2010	**68**	4.5	<1.0	<1.0	<1.0
	9/22/2010	**87**	5	<1.0	<1.0	<1.0
	12/15/2010	**75**	5	<1.0	<1.0	<1.0
	3/31/2011	3	<1.0	<1.0	<1.0	<1.0
	6/16/2011	**55**	2.6	<1.0	<1.0	<1.0
	9/21/2011	**44**	2.8	<1.0	<1.0	<1.0
	12/29/2011	**14**	1.6	<1.0	<1.0	<1.0
	3/21/2012	**59**	3.1	<1.0	<1.0	<1.0
	6/20/2012	**86**	8.8	<1.0	<1.0	<1.0
	9/26/2012	**88**	18	<1.0	<1.0	<1.0
	12/19/2012	**96**	16	<1.0	<1.0	<1.0
	3/13/2013	**25**	3.4	<1.0	<1.0	<1.0
	6/28/2013	**62**	30	<1.0	<1.0	<1.0
	9/25/2013	**74**	54	<1.0	<1.0	<1.0
	12/18/2013	**78**	31	<1.0	<1.0	<1.0
	3/18/2014	**110**	18	<1.0	<1.0	<1.0
	6/24/2014	**130**	13	<1.0	<1.0	<1.0
	9/9/2014	**190**	12	<1.0	<1.0	<1.0
	3/24/2015	NS	NS	NS	NS	NS

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
MW-47*	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2015	<1.0	<1.0	<1.0	<1.0	<1.0
MW-48*	3/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2015	<1.0	<1.0	<1.0	<1.0	<1.0
CS-1	6/20/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/6/2007	1.2	<1.0	<1.0	<1.0	<1.0
	3/12/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/18/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/17/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2010	**4.1**	<1.0	<1.0	<1.0	<4.1
	3/31/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2011	**3.1**	<1.0	<1.0	<1.0	<1.0
	9/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/28/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2012	2.3	<1.0	<1.0	<1.0	<1.0
	6/20/2012	1.0	<1.0	<1.0	<1.0	<1.0
	9/26/2012	**5.8**	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	**2.9**	<1.0	<1.0	<1.0	<1.0
	9/25/2013	2.1	<1.0	<1.0	<1.0	<1.0
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	**5.3**	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
CS-2	6/20/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/6/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/18/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/17/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	3/31/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2011	**4.5**	<1.0	<1.0	<1.0	<1.0
	9/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/28/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2012	2.4	<1.0	<1.0	<1.0	<1.0
	6/20/2012	**2.9**	<1.0	<1.0	<1.0	<1.0
	9/26/2012	**4.8**	<1.0	<1.0	<1.0	<1.0
	12/19/2012	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	**2.9**	<1.0	<1.0	<1.0	<1.0
	9/25/2013	**2.9**	1.2	<1.0	<1.0	<1.0
	12/17/2013	1.1	<1.0	<1.0	<1.0	<1.0
	3/18/2014	**4.9**	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2015	<1.0	<1.0	<1.0	<1.0	<1.0

Well No.	Date	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
	MCL (µg/L)	**5**	**70**	**7**	**100**	**2**
	AWQC (µg/L)	**2.5**	**-**	**330**	**140**	**0.025**
CS-3	6/20/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	12/6/2007	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	9/18/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	12/4/2008	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	6/17/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	9/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0
	3/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	7/28/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2010	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2010	**2.8**	<1.0	<1.0	<1.0	<2.8
	3/31/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	6/16/2011	**4.9**	<1.0	<1.0	<1.0	<1.0
	9/21/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	12/28/2011	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2012	2.3	<1.0	<1.0	<1.0	<1.0
	6/20/2012	**3.5**	<1.0	<1.0	<1.0	<1.0
	9/26/2012	**5.5**	<1.0	<1.0	<1.0	<1.0
	12/19/2012	1	<1.0	<1.0	<1.0	<1.0
	3/12/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/2013	**2.7**	<1.0	<1.0	<1.0	<1.0
	9/25/2013	1.5	<1.0	<1.0	<1.0	<1.0
	12/17/2013	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2014	**7.5**	<1.0	<1.0	<1.0	<1.0
	6/24/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	3/25/2015	<1.0	<1.0	<1.0	<1.0	<1.0
RW-2	3/14/2013	**91**	6.6	<1.0	<1.0	<1.0
RW-3	3/14/2013	1.2	<1.0	<1.0	<1.0	<1.0

Note: All results in micrograms per liter (µg/L)

Key:

Dup = Duplicate sample results

NA = Not analyzed

Bold = Above Maximum Contaminant Level (MCL)

Italic = Laboratory Reporting Limit above MCL

* = Shallow wells

CS = Creek Sample

\\bufnas7b\GISRegional\Pensacola\Water_Valley\maps\mxds\TCE_Concentration_Isopleth.mxd

N

NOT TO SCALE

MW-47 <1.0
MW-48 <1.0
MW-45
MW-46
MW-30S <1.0
MW-30D 3.1
MW-44 2500
MW-40
RW-5
CS-3 <1.0
MW-388 1.1
MW-43
MW-42
MW-38
MW-38 <1.0
MW-35 230
CS-2 <1.0
RW-4
MW-29S
MW-290
CS-1
MW-37 790
MW-41 620
MW-25S
MW-25D
MW-11 1600
MW-24
MW-33
MW-31D 58
MW-27 720
MW-31S <1.0
MW-22S 2800
MW-22D 690
MW-23S
MW-23D
MW-17
MW-32
RW-1
MW-5
MW-36
MW-19
Hendrick's Well
MW-85
MW-4
MW-8D
MW-9S
MW-12
RW-2
MW-9D
MW-6
MW-20
Hand Pump
MW-28S <1.0
RW-3
MW-28D <1.0
MW-16
MW-3
MW-2
MW-18
MW-10
MW-15
MW-7S
MW-7D
City Well
MW-1
Benchmark
MW-21D
MW-21S
MW-14
MW-34

100
1000
2000
<1.0

KEY:

- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Supply Well
- Benchmark
- Recovery Well
- Surface Water Supply Location
- TCE Concentration Isopleth
- 280 TCE Concentration (ug/L)
- Fence
- Building

Figure 2
TCE Concentration Isopleth Map
March 2015
Former Holley Automotive Facility
Water Valley, Mississippi

\\bufnas7b\GISRegional\Pensacola\Water_Valley\maps\mxds\Potentiometric_Surface v2.mxd

N

NOT TO SCALE

MW-47
271.27

MW-48
262.94

MW-45

MW-30S
261.83

MW-30D

MW-46

MW-44

RW-5

MW-40

CS-3

MW-38S
274.67

MW-43

MW-35
262.15

MW-42
271.42

MW-38

CS-2

RW-4

MW-38
274.67

MW-29S

MW-290

CS-1

MW-37
277.57

MW-41

MW-25D

MW-24
272.98

MW-33

MW-31D

MW-25S
275.50

MW-11

MW-31S
261.40

MW-27
277.39

MW-23S

MW-22S
275.32

MW-22D

MW-17

MW-23D
268.19

MW-32

RW-1

MW-5

MW-36

MW-19

Hendrick's
Well

RW-2

MW-85

Hand
Pump

MW-4

MW-8D

MW-12

MW-9D

MW-9S

MW-6

MW-28S
261.50

MW-20

RW-3

MW-16
269.91

MW-28D

MW-3

MW-2

MW-18

MW-10

MW-15

MW-7S

MW-7D

City
Well

MW-1

Benchmark

MW-21D

MW-21S

MW-14

MW-34

275

270

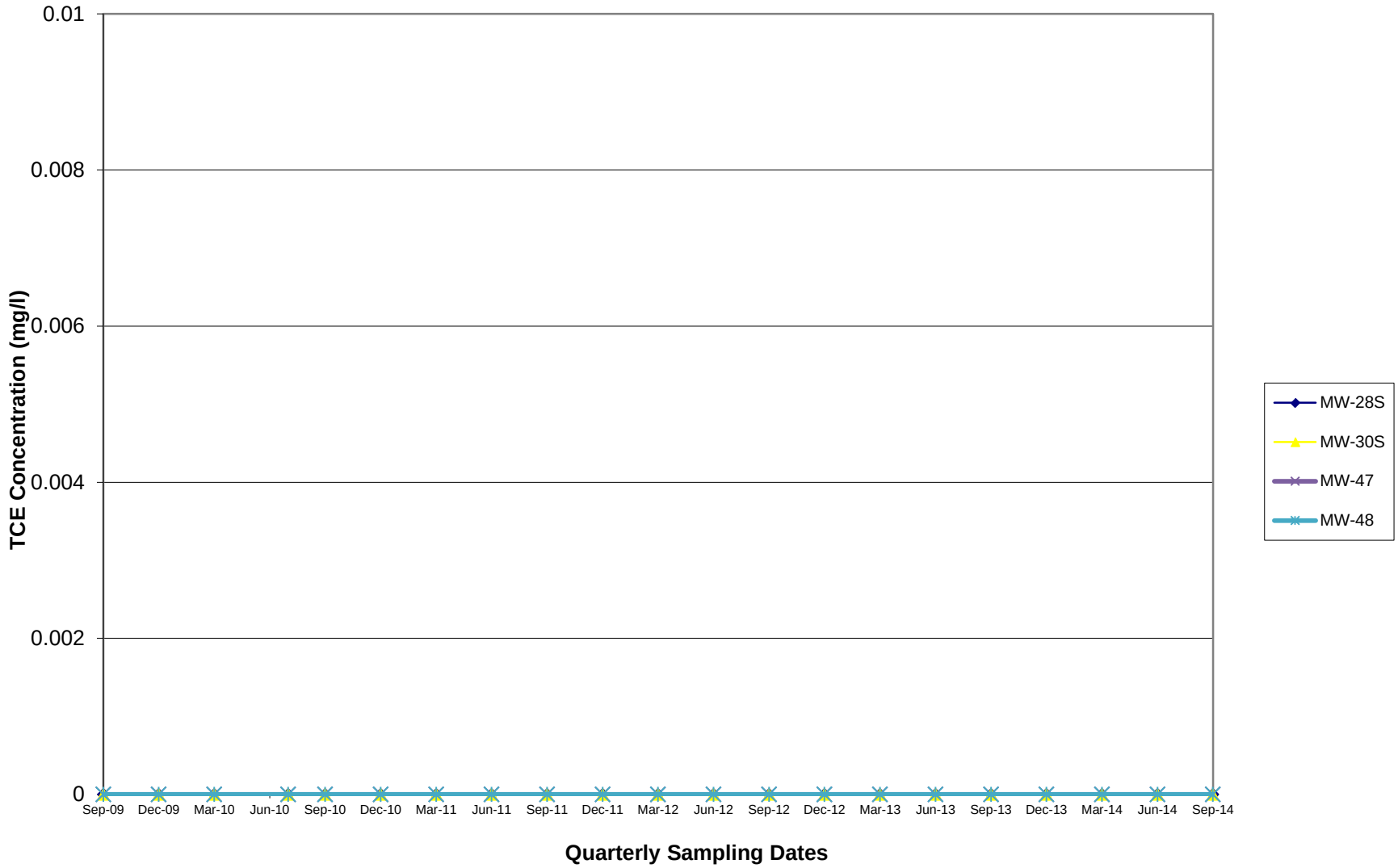
265

KEY:

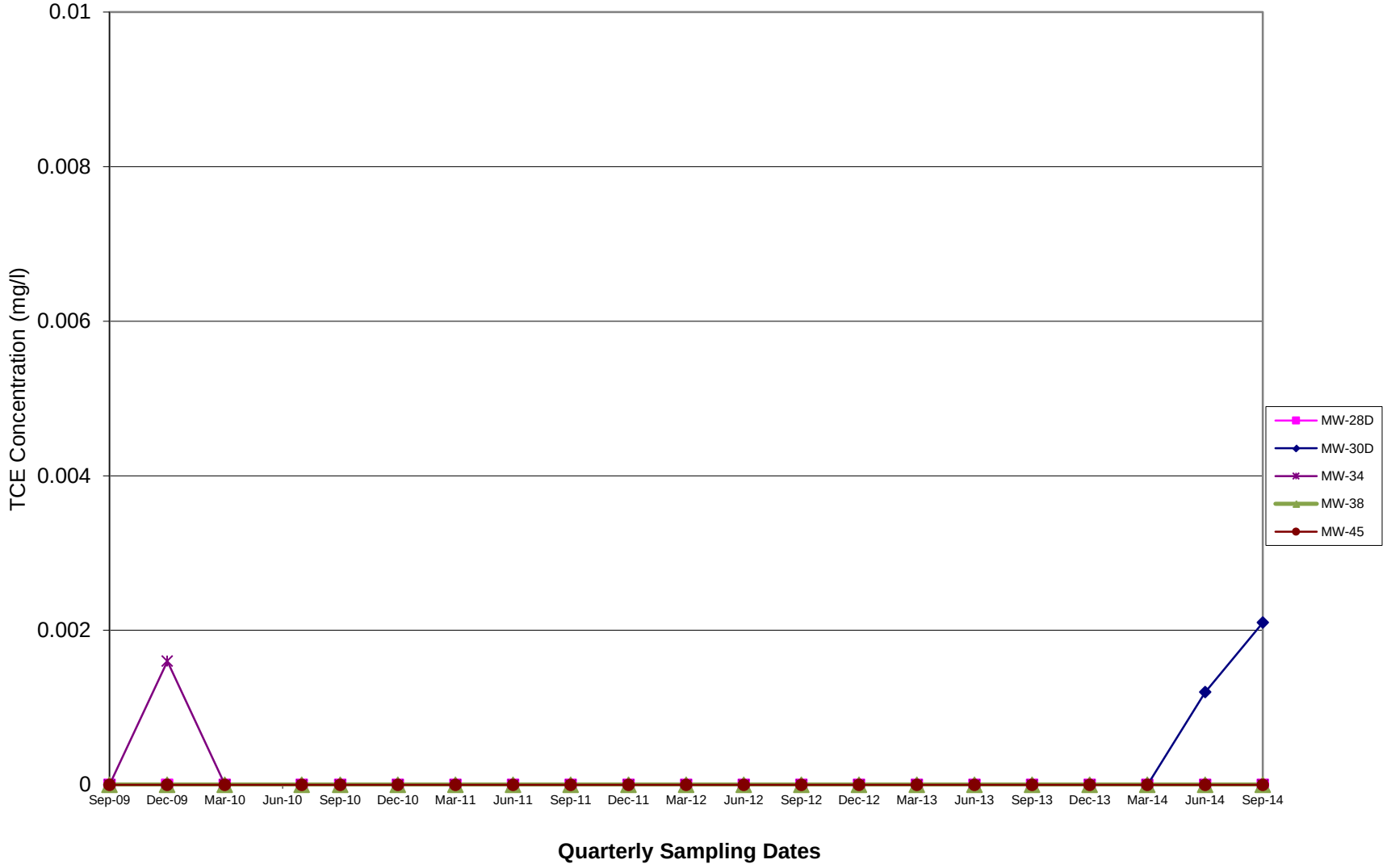
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Supply Well
- Benchmark
- Recovery Well
- Surface Water Supply Location
- Groundwater Elevation Isopleth
- Fence
- Building

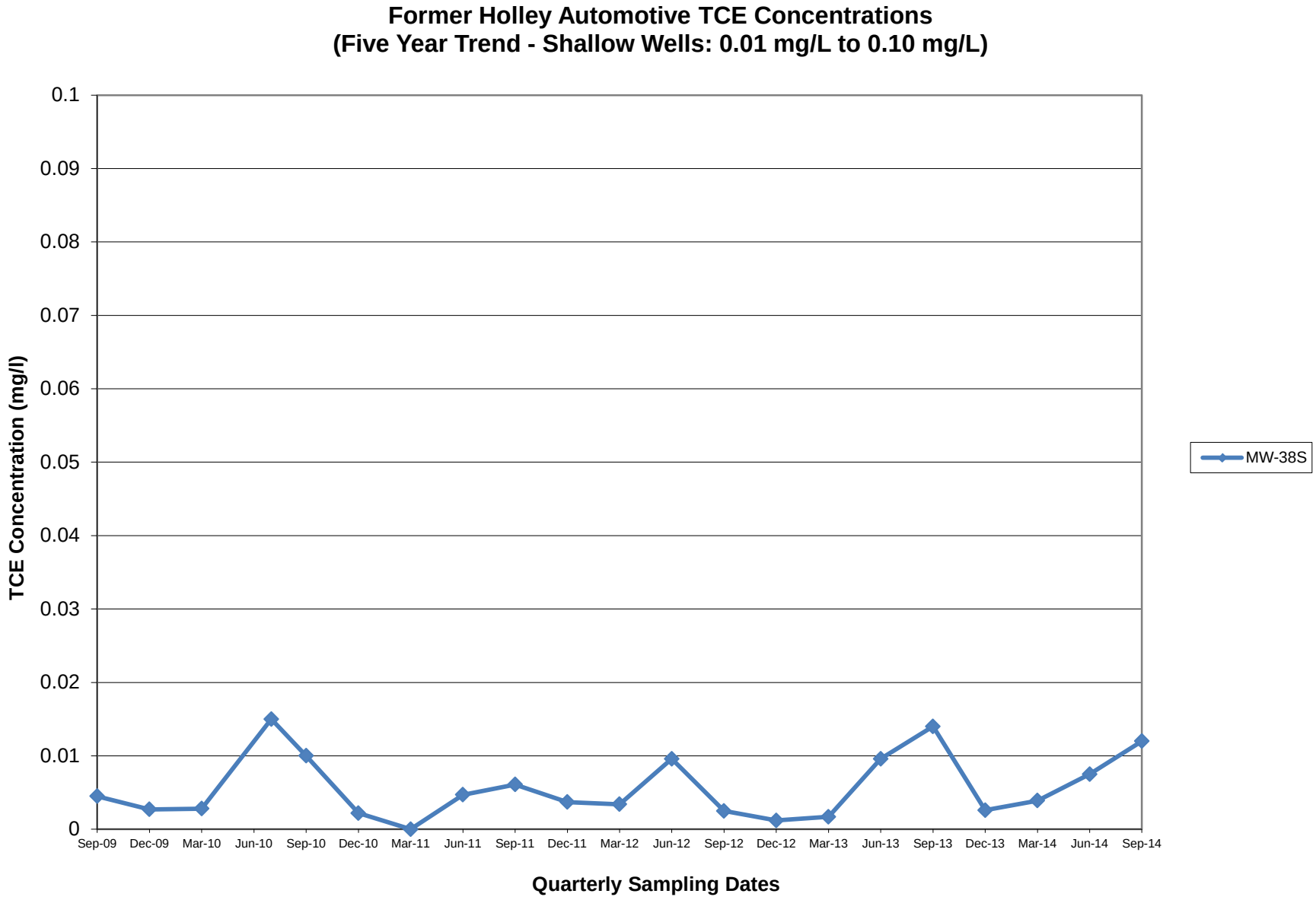
Figure 1
Shallow Well Potentiometric Surface Map
March 2015
Former Holley Automotive Facility
Water Valley, Mississippi

ATTACHMENT A

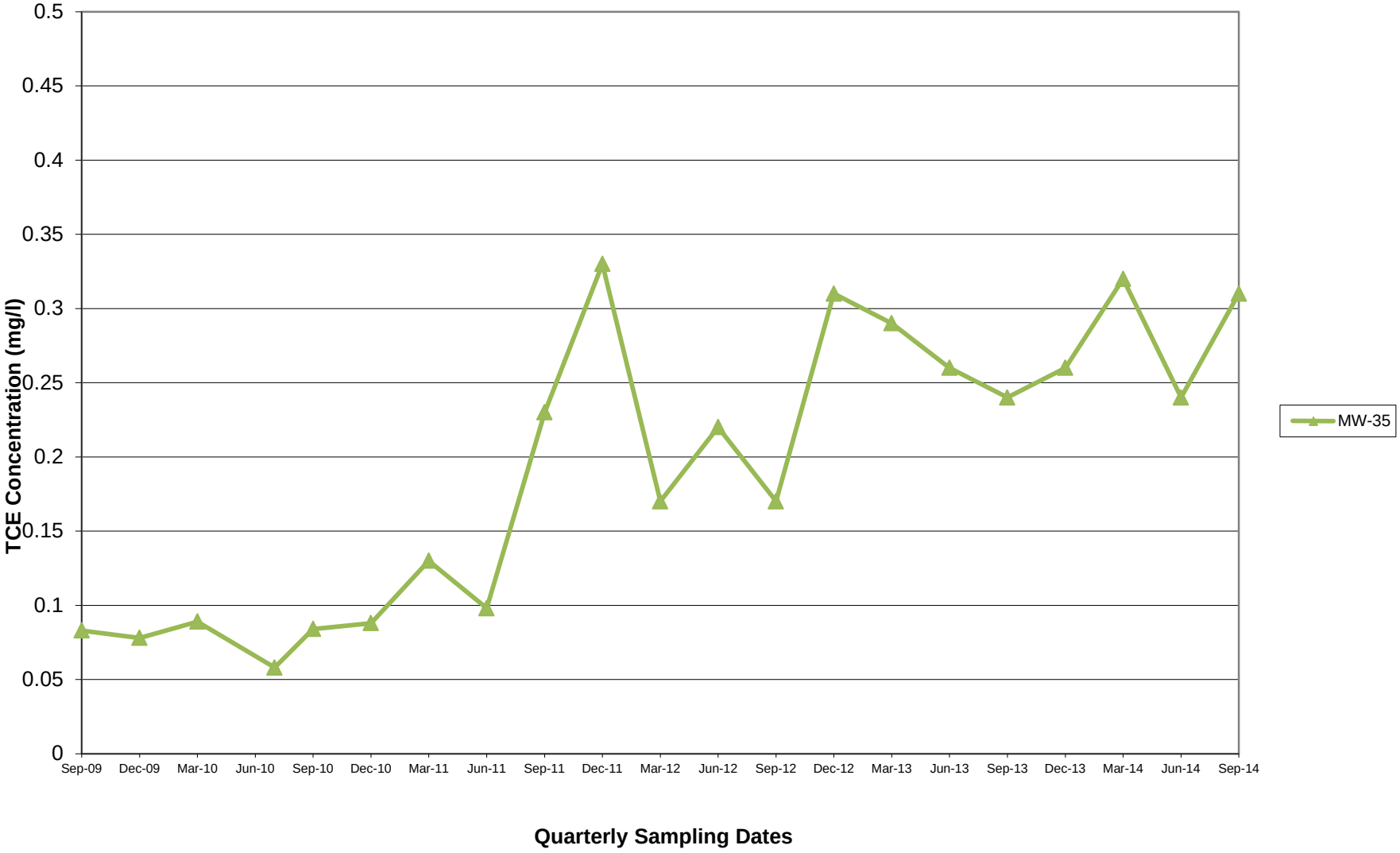

Former Holley Automotive TCE Concentrations
(Five Year Trend - Shallow Wells: Non-Detect to 0.10 mg/L)
TCE Concentration (mg/l)
0.01
0.008
0.006
0.004
0.002
0
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Quarterly Sampling Dates
MW-28S
MW-30S
MW-47
MW-48

Former Holley Automotive TCE Concentrations
(Five Year Trend - Deep Wells: Non Detect to 0.01 mg/L)

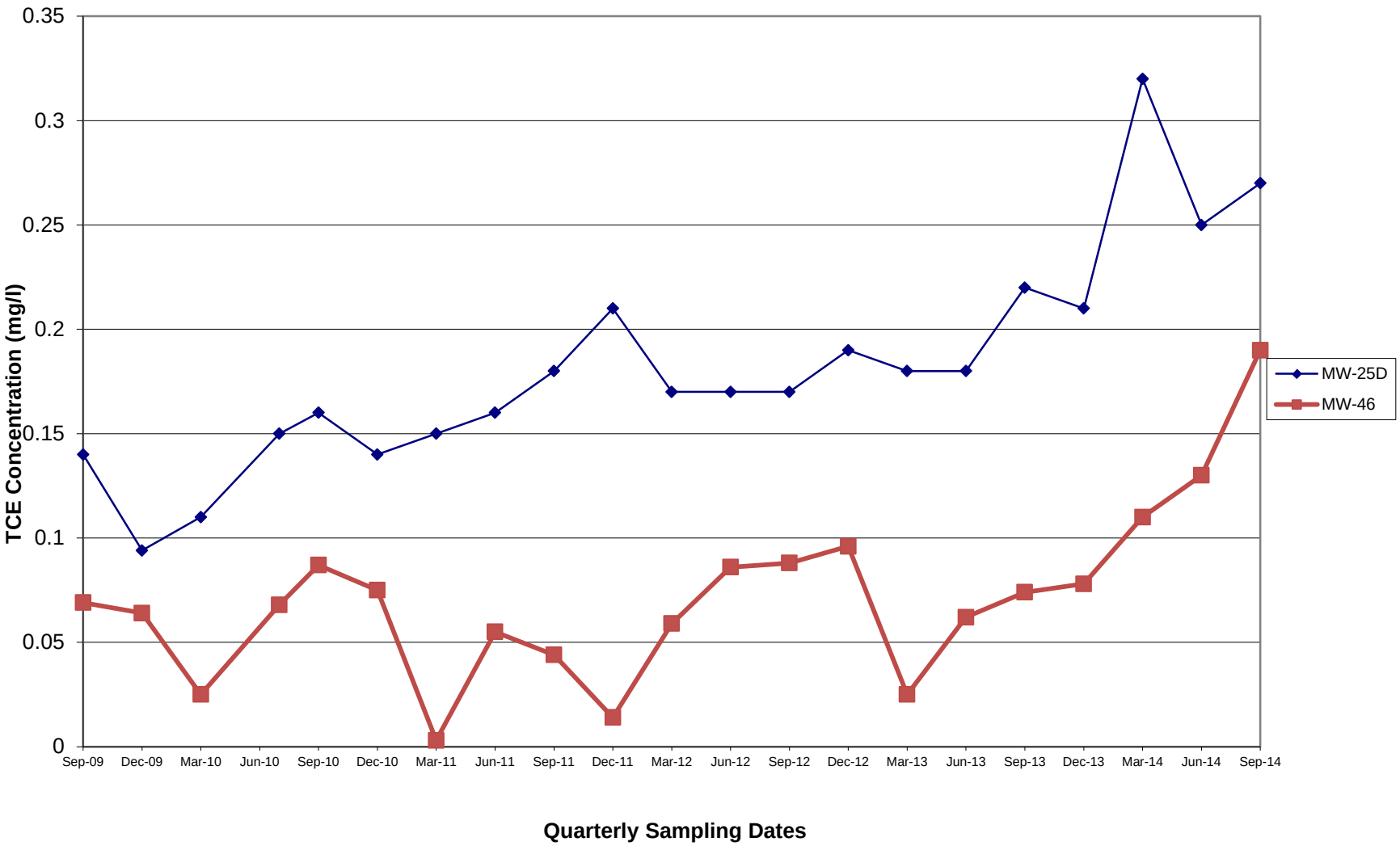



Former Holley Automotive TCE Concentrations
(Five Year Trend - Shallow Wells: 0.01 mg/L to 0.10 mg/L)
TCE Concentration (mg/l)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Quarterly Sampling Dates
MW-38S

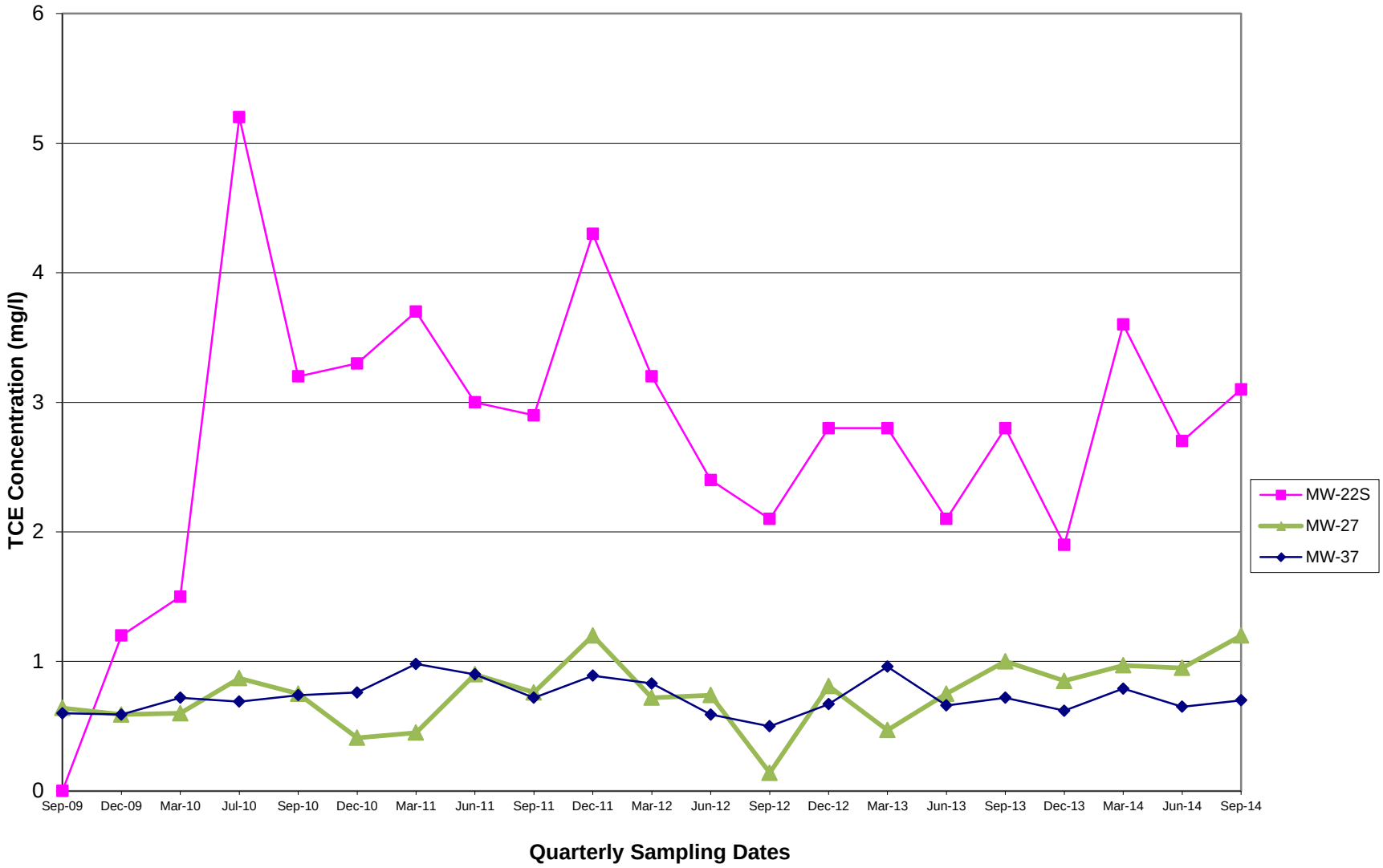
Former Holley Automotive TCE Concentrations
(Five Year Trend - Shallow Wells: 0.10 mg/L to 0.50 mg/L)



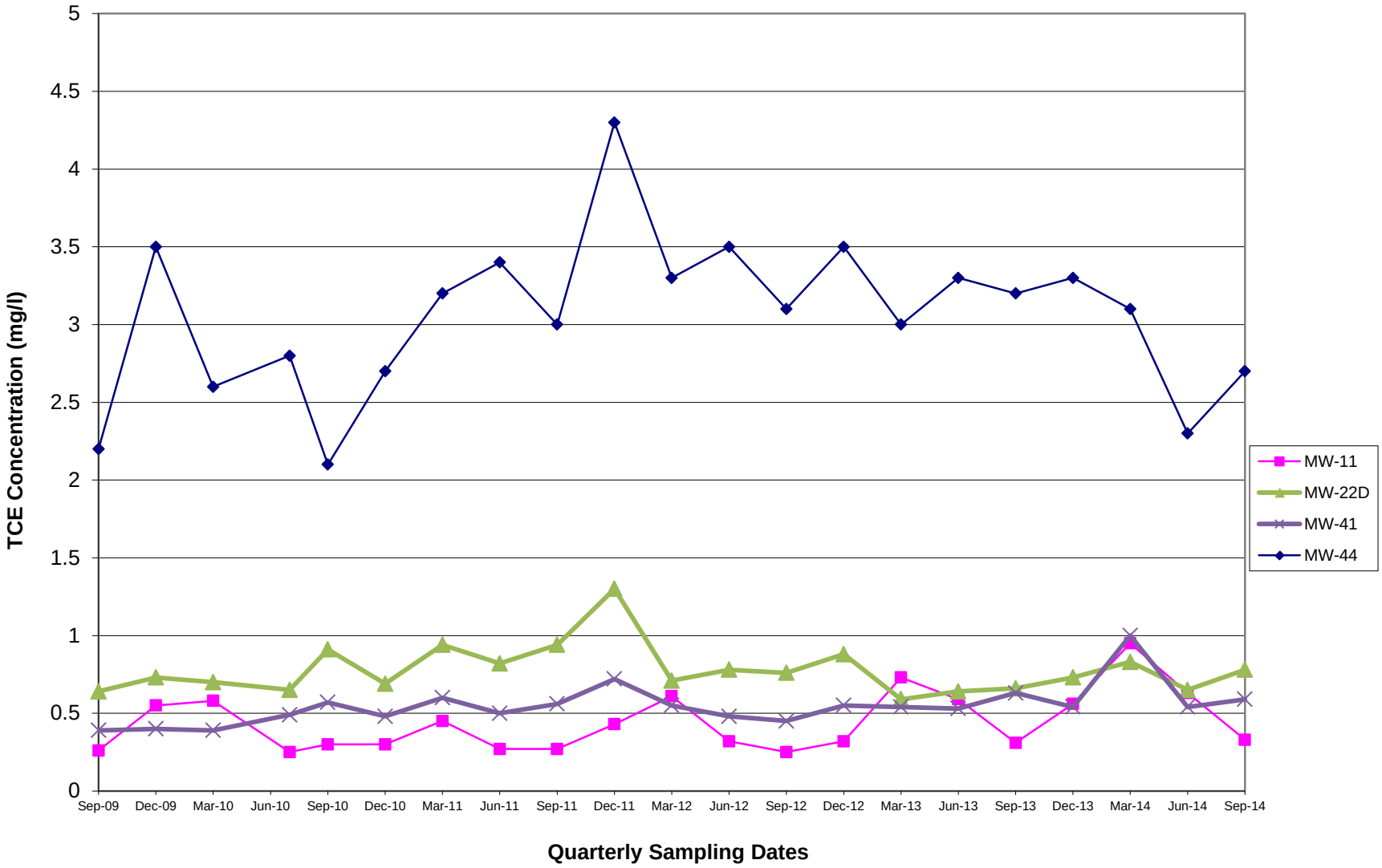
Former Holley Automotive TCE Concentrations
(Five Year Trend - Deep Wells: 0.10 mg/L to 0.50 mg/L)



Former Holley Automotive TCE Concentrations
(Five Year Trend - Shallow Wells >0.50 mg/L)



Former Holley Automotive TCE Concentrations
(Five Year Trend - Deep Wells >0.50 mg/L)



ATTACHMENT B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-50814-1
Client Project/Site: Water Valley Mississippi, Former Holley

For:
Ecology and Environment, Inc.
700 South Palafox
Suite 100
Pensacola, Florida 32502

Attn: Mr. Andrew M Hill

Authorized for release by:
4/6/2015 10:35:56 AM

Matt Jones, Project Management Assistant I
(850)878-3994
matt.jones@testamericainc.com

Table of Contents

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Glossary

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

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Job ID: 640-50814-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-50814-1

Comments
No additional comments.

Receipt
The samples were received on 3/26/2015 at 9:27 AM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 4.8º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 376981. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

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

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: MW-22S — Lab Sample ID: 640-50814-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		50		ug/L	50		8260B	Total/NA
Trichloroethene	2800		50		ug/L	50		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 640-50814-2

No Detections.

Client Sample ID: MW-22D — Lab Sample ID: 640-50814-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	72		10		ug/L	10		8260B	Total/NA
Trichloroethene	690		10		ug/L	10		8260B	Total/NA

Client Sample ID: CS-1 — Lab Sample ID: 640-50814-4

No Detections.

Client Sample ID: CS-2 — Lab Sample ID: 640-50814-5

No Detections.

Client Sample ID: CS-3 — Lab Sample ID: 640-50814-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: MW-22S
Date Collected: 03/25/15 09:05
Date Received: 03/26/15 09:27

Lab Sample ID: 640-50814-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**190**		50		ug/L			04/01/15 19:16	50
1,1-Dichloroethene	<50		50		ug/L			04/01/15 19:16	50
Tetrachloroethene	<50		50		ug/L			04/01/15 19:16	50
trans-1,2-Dichloroethene	<50		50		ug/L			04/01/15 19:16	50
Trichloroethene	**2800**		50		ug/L			04/01/15 19:16	50
Vinyl chloride	<50		50		ug/L			04/01/15 19:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/01/15 19:16*	*50*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/01/15 19:16*	*50*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/01/15 19:16*	*50*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: Trip Blank
Date Collected: 03/25/15 08:30
Date Received: 03/26/15 09:27

Lab Sample ID: 640-50814-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 18:53	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 18:53	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 18:53	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 18:53	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 18:53	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*04/01/15 18:53*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/01/15 18:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/01/15 18:53*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: MW-22D
Date Collected: 03/25/15 09:30
Date Received: 03/26/15 09:27

Lab Sample ID: 640-50814-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**72**		10		ug/L			04/01/15 19:39	10
1,1-Dichloroethene	<10		10		ug/L			04/01/15 19:39	10
Tetrachloroethene	<10		10		ug/L			04/01/15 19:39	10
trans-1,2-Dichloroethene	<10		10		ug/L			04/01/15 19:39	10
Trichloroethene	**690**		10		ug/L			04/01/15 19:39	10
Vinyl chloride	<10		10		ug/L			04/01/15 19:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/01/15 19:39*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*04/01/15 19:39*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/01/15 19:39*	*10*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: CS-1
Date Collected: 03/25/15 10:45
Date Received: 03/26/15 09:27

Lab Sample ID: 640-50814-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 20:02	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 20:02	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 20:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 20:02	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 20:02	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*04/01/15 20:02*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/01/15 20:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*04/01/15 20:02*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: CS-2
Date Collected: 03/25/15 10:55
Date Received: 03/26/15 09:27

Lab Sample ID: 640-50814-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 20:25	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 20:25	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 20:25	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 20:25	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 20:25	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/01/15 20:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/01/15 20:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/01/15 20:25*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: CS-3
Date Collected: 03/25/15 11:05
Date Received: 03/26/15 09:27

Lab Sample ID: 640-50814-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/02/15 12:15	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/02/15 12:15	1
Tetrachloroethene	<1.0		1.0		ug/L			04/02/15 12:15	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/02/15 12:15	1
Trichloroethene	<1.0		1.0		ug/L			04/02/15 12:15	1
Vinyl chloride	<1.0		1.0		ug/L			04/02/15 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/02/15 12:15*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/02/15 12:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/02/15 12:15*	*1*

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
640-50814-1	MW-22S	102	102	104
640-50814-2	Trip Blank	105	99	104
640-50814-3	MW-22D	99	107	102
640-50814-4	CS-1	105	99	105
640-50814-5	CS-2	104	99	104
640-50814-6	CS-3	104	99	104
LCS 680-376981/4	Lab Control Sample	96	102	101
LCS 680-377160/3	Lab Control Sample	103	105	109
LCSD 680-376981/5	Lab Control Sample Dup	99	96	101
LCSD 680-377160/4	Lab Control Sample Dup	96	96	99
MB 680-376981/9	Method Blank	104	100	102
MB 680-377160/8	Method Blank	104	99	104

Surrogate Legend

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 680-376981/9
Matrix: Water
Analysis Batch: 376981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:41	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 11:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:41	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 11:41	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/01/15 11:41*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/01/15 11:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/01/15 11:41*	*1*

Lab Sample ID: LCS 680-376981/4
Matrix: Water
Analysis Batch: 376981

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	51.9		ug/L		104	80 - 122		
1,1-Dichloroethene			50.0	48.9		ug/L		98	74 - 125		
Tetrachloroethene			50.0	49.5		ug/L		99	77 - 123		
trans-1,2-Dichloroethene			50.0	49.0		ug/L		98	78 - 123		
Trichloroethene			50.0	50.8		ug/L		102	80 - 123		
Vinyl chloride			50.0	49.6		ug/L		99	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-376981/5
Matrix: Water
Analysis Batch: 376981

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	50.6		ug/L		101	80 - 122	3	20
1,1-Dichloroethene			50.0	51.8		ug/L		104	74 - 125	6	20
Tetrachloroethene			50.0	51.0		ug/L		102	77 - 123	3	20
trans-1,2-Dichloroethene			50.0	49.4		ug/L		99	78 - 123	1	20
Trichloroethene			50.0	51.0		ug/L		102	80 - 123	0	20
Vinyl chloride			50.0	53.0		ug/L		106	68 - 132	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 680-377160/8
Matrix: Water
Analysis Batch: 377160

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/02/15 10:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/02/15 10:44	1
Tetrachloroethene	<1.0		1.0		ug/L			04/02/15 10:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/02/15 10:44	1
Trichloroethene	<1.0		1.0		ug/L			04/02/15 10:44	1
Vinyl chloride	<1.0		1.0		ug/L			04/02/15 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/02/15 10:44*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/02/15 10:44*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/02/15 10:44*	*1*

Lab Sample ID: LCS 680-377160/3
Matrix: Water
Analysis Batch: 377160

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	55.4		ug/L		111	80 - 122		
1,1-Dichloroethene			50.0	53.7		ug/L		107	74 - 125		
Tetrachloroethene			50.0	52.7		ug/L		105	77 - 123		
trans-1,2-Dichloroethene			50.0	53.3		ug/L		107	78 - 123		
Trichloroethene			50.0	53.7		ug/L		107	80 - 123		
Vinyl chloride			50.0	54.0		ug/L		108	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 680-377160/4
Matrix: Water
Analysis Batch: 377160

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	50.9		ug/L		102	80 - 122	8	20
1,1-Dichloroethene			50.0	49.8		ug/L		100	74 - 125	8	20
Tetrachloroethene			50.0	49.1		ug/L		98	77 - 123	7	20
trans-1,2-Dichloroethene			50.0	49.8		ug/L		100	78 - 123	7	20
Trichloroethene			50.0	49.5		ug/L		99	80 - 123	8	20
Vinyl chloride			50.0	50.7		ug/L		101	68 - 132	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

GC/MS VOA

Analysis Batch: 376981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50814-1	MW-22S	Total/NA	Water	8260B	
640-50814-2	Trip Blank	Total/NA	Water	8260B	
640-50814-3	MW-22D	Total/NA	Water	8260B	
640-50814-4	CS-1	Total/NA	Water	8260B	
640-50814-5	CS-2	Total/NA	Water	8260B	
LCS 680-376981/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376981/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376981/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 377160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50814-6	CS-3	Total/NA	Water	8260B	
LCS 680-377160/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-377160/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-377160/8	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Client Sample ID: MW-22S — Lab Sample ID: 640-50814-1

Date Collected: 03/25/15 09:05 — **Matrix: Water**
Date Received: 03/26/15 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	376981	04/01/15 19:16	MMT	TAL SAV

Client Sample ID: Trip Blank — Lab Sample ID: 640-50814-2

Date Collected: 03/25/15 08:30 — **Matrix: Water**
Date Received: 03/26/15 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376981	04/01/15 18:53	MMT	TAL SAV

Client Sample ID: MW-22D — Lab Sample ID: 640-50814-3

Date Collected: 03/25/15 09:30 — **Matrix: Water**
Date Received: 03/26/15 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	376981	04/01/15 19:39	MMT	TAL SAV

Client Sample ID: CS-1 — Lab Sample ID: 640-50814-4

Date Collected: 03/25/15 10:45 — **Matrix: Water**
Date Received: 03/26/15 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376981	04/01/15 20:02	MMT	TAL SAV

Client Sample ID: CS-2 — Lab Sample ID: 640-50814-5

Date Collected: 03/25/15 10:55 — **Matrix: Water**
Date Received: 03/26/15 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376981	04/01/15 20:25	MMT	TAL SAV

Client Sample ID: CS-3 — Lab Sample ID: 640-50814-6

Date Collected: 03/25/15 11:05 — **Matrix: Water**
Date Received: 03/26/15 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377160	04/02/15 12:15	MMT	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Laboratory: TestAmerica Tallahassee

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15
Georgia	State Program	4		06-30-15
Louisiana	NELAP	6	30663	06-30-15
New Jersey	NELAP	2	FL012	06-30-15
Texas	NELAP	6	T104704459-15-7	03-31-16
USDA	Federal		P330-08-00158	10-14-17

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Mississippi	State Program	4	N/A	06-30-15

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50814-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-50814-1	MW-22S	Water	03/25/15 09:05	03/26/15 09:27
640-50814-2	Trip Blank	Water	03/25/15 08:30	03/26/15 09:27
640-50814-3	MW-22D	Water	03/25/15 09:30	03/26/15 09:27
640-50814-4	CS-1	Water	03/25/15 10:45	03/26/15 09:27
640-50814-5	CS-2	Water	03/25/15 10:55	03/26/15 09:27
640-50814-6	CS-3	Water	03/25/15 11:05	03/26/15 09:27

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4/6/2015

Client Information	Sampler:	Lab PM: Jones, Matt	Carrier Tracking No(s):	COC No: 640-44123-7296.3
Client Contact: ~~Amy Mixon~~ Steve Elliott	Phone:	E-Mail: matt.jones@testamericainc.com		Page: Page 3 of 5
Company: Ecology and Environment, Inc.				Job #: 640-50814

Address: 700 South Palafox Suite 100	Due Date Requested:	Analysis Requested
City: Pensacola	TAT Requested (days):	
State, Zip: FL, 32502		
Phone: 850-435-8925(Tel)	PO #: 001525.EN05.08	
Email: ~~amixon@ene.com~~ sellioth@ene.com	WO #: 001525.EN05.08	
Project Name: Water Valley Mississippi, Former Holley	Project #: 64001574	
Site:	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Short list	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	X	
MW-22S	3/25/15	0905	G	GW					
Trip Blank		0830							
MW-22D		0930							
CS-1		1045		SW					
CS-2		1055							
CS-3		1105							

640-50814 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/25/15 1400		[signature]	3/26/15 0927	TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.8°

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-50808-1
Client Project/Site: Water Valley Mississippi, Former Holley

For:
Ecology and Environment, Inc.
700 South Palafox
Suite 100
Pensacola, Florida 32502

Attn: Mr. Andrew M Hill

Authorized for release by:
4/6/2015 10:35:41 AM

Matt Jones, Project Management Assistant I
(850)878-3994
matt.jones@testamericainc.com

Table of Contents

Glossary

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

Job ID: 640-50808-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-50808-1

Comments
No additional comments.

Receipt
The samples were received on 3/25/2015 at 9:10 AM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 376789. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 376978. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

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

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: Trip Blank — Lab Sample ID: 640-50808-1

No Detections.

Client Sample ID: MW-48 — Lab Sample ID: 640-50808-2

No Detections.

Client Sample ID: MW-47 — Lab Sample ID: 640-50808-3

No Detections.

Client Sample ID: MW-38S — Lab Sample ID: 640-50808-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-38 — Lab Sample ID: 640-50808-5

No Detections.

Client Sample ID: MW-27 — Lab Sample ID: 640-50808-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		10		ug/L	10		8260B	Total/NA
Trichloroethene	720		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-37 — Lab Sample ID: 640-50808-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	88		10		ug/L	10		8260B	Total/NA
Trichloroethene	790		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 640-50808-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	57		20		ug/L	20		8260B	Total/NA
Trichloroethene	1600		20		ug/L	20		8260B	Total/NA

Client Sample ID: MW-41 — Lab Sample ID: 640-50808-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		10		ug/L	10		8260B	Total/NA
Trichloroethene	620		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-25D — Lab Sample ID: 640-50808-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	350		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-44 — Lab Sample ID: 640-50808-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-44 (Continued)

Lab Sample ID: 640-50808-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	74		50		ug/L	50		8260B	Total/NA
Trichloroethene	2500		50		ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: Trip Blank
Date Collected: 03/24/15 08:30
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 15:30	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 15:30	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 15:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 15:30	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 15:30	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/01/15 15:30*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/01/15 15:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/01/15 15:30*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-48
Date Collected: 03/24/15 08:55
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:10	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:10	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 14:10	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:10	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 14:10	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 14:10*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/31/15 14:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/31/15 14:10*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-47
Date Collected: 03/24/15 09:45
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:32	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:32	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 14:32	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:32	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 14:32	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 14:32*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/31/15 14:32*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/31/15 14:32*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-38S
Date Collected: 03/24/15 10:30
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:55	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 14:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 14:55	1
Trichloroethene	**1.1**		1.0		ug/L			03/31/15 14:55	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 14:55*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/31/15 14:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/31/15 14:55*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-38
Date Collected: 03/24/15 11:00
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 15:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 15:17	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 15:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 15:17	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 15:17	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/31/15 15:17*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/31/15 15:17*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/31/15 15:17*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-27
Date Collected: 03/24/15 11:40
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**130**		10		ug/L			04/01/15 15:53	10
1,1-Dichloroethene	<10		10		ug/L			04/01/15 15:53	10
Tetrachloroethene	<10		10		ug/L			04/01/15 15:53	10
trans-1,2-Dichloroethene	<10		10		ug/L			04/01/15 15:53	10
Trichloroethene	**720**		10		ug/L			04/01/15 15:53	10
Vinyl chloride	<10		10		ug/L			04/01/15 15:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/01/15 15:53*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/01/15 15:53*	*10*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 15:53*	*10*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-37
Date Collected: 03/24/15 12:05
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**88**		10		ug/L			04/01/15 11:48	10
1,1-Dichloroethene	<10		10		ug/L			04/01/15 11:48	10
Tetrachloroethene	<10		10		ug/L			04/01/15 11:48	10
trans-1,2-Dichloroethene	<10		10		ug/L			04/01/15 11:48	10
Trichloroethene	**790**		10		ug/L			04/01/15 11:48	10
Vinyl chloride	<10		10		ug/L			04/01/15 11:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/01/15 11:48*	*10*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/01/15 11:48*	*10*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/01/15 11:48*	*10*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-11
Date Collected: 03/24/15 14:20
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**57**		20		ug/L			03/31/15 17:55	20
1,1-Dichloroethene	<20		20		ug/L			03/31/15 17:55	20
Tetrachloroethene	<20		20		ug/L			03/31/15 17:55	20
trans-1,2-Dichloroethene	<20		20		ug/L			03/31/15 17:55	20
Trichloroethene	**1600**		20		ug/L			03/31/15 17:55	20
Vinyl chloride	<20		20		ug/L			03/31/15 17:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/31/15 17:55*	*20*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*03/31/15 17:55*	*20*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/31/15 17:55*	*20*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-41
Date Collected: 03/24/15 14:55
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**66**		10		ug/L			04/01/15 12:10	10
1,1-Dichloroethene	<10		10		ug/L			04/01/15 12:10	10
Tetrachloroethene	<10		10		ug/L			04/01/15 12:10	10
trans-1,2-Dichloroethene	<10		10		ug/L			04/01/15 12:10	10
Trichloroethene	**620**		10		ug/L			04/01/15 12:10	10
Vinyl chloride	<10		10		ug/L			04/01/15 12:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/01/15 12:10*	*10*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/01/15 12:10*	*10*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/01/15 12:10*	*10*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-25D
Date Collected: 03/24/15 15:30
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**27**		2.0		ug/L			04/01/15 12:31	2
1,1-Dichloroethene	<2.0		2.0		ug/L			04/01/15 12:31	2
Tetrachloroethene	<2.0		2.0		ug/L			04/01/15 12:31	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			04/01/15 12:31	2
Trichloroethene	**350**		2.0		ug/L			04/01/15 12:31	2
Vinyl chloride	<2.0		2.0		ug/L			04/01/15 12:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/01/15 12:31*	*2*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*04/01/15 12:31*	*2*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 12:31*	*2*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-44
Date Collected: 03/24/15 16:10
Date Received: 03/25/15 09:10

Lab Sample ID: 640-50808-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**74**		50		ug/L			03/31/15 19:02	50
1,1-Dichloroethene	<50		50		ug/L			03/31/15 19:02	50
Tetrachloroethene	<50		50		ug/L			03/31/15 19:02	50
trans-1,2-Dichloroethene	<50		50		ug/L			03/31/15 19:02	50
Trichloroethene	**2500**		50		ug/L			03/31/15 19:02	50
Vinyl chloride	<50		50		ug/L			03/31/15 19:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/31/15 19:02*	*50*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/31/15 19:02*	*50*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/31/15 19:02*	*50*

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
640-50808-1	Trip Blank	102	103	93
640-50808-2	MW-48	100	100	99
640-50808-3	MW-47	100	101	94
640-50808-4	MW-38S	100	101	98
640-50808-5	MW-38	99	99	94
640-50808-6	MW-27	98	99	90
640-50808-7	MW-37	93	105	91
640-50808-8	MW-11	95	106	93
640-50808-9	MW-41	93	105	92
640-50808-10	MW-25D	89	111	90
640-50808-11	MW-44	97	102	94
LCS 680-376789/4	Lab Control Sample	97	102	94
LCS 680-376973/4	Lab Control Sample	96	101	94
LCS 680-376978/4	Lab Control Sample	94	98	93
LCSD 680-376789/5	Lab Control Sample Dup	97	101	91
LCSD 680-376973/5	Lab Control Sample Dup	94	99	93
LCSD 680-376978/5	Lab Control Sample Dup	94	98	94
MB 680-376789/9	Method Blank	102	98	93
MB 680-376973/9	Method Blank	100	102	91
MB 680-376978/9	Method Blank	102	98	92

Surrogate Legend

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 680-376789/9
Matrix: Water
Analysis Batch: 376789

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 10:43	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 10:43	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 10:43	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 10:43	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 10:43	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/31/15 10:43*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/31/15 10:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/31/15 10:43*	*1*

Lab Sample ID: LCS 680-376789/4
Matrix: Water
Analysis Batch: 376789

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 122		
1,1-Dichloroethene			50.0	42.3		ug/L		85	74 - 125		
Tetrachloroethene			50.0	46.7		ug/L		93	77 - 123		
trans-1,2-Dichloroethene			50.0	45.8		ug/L		92	78 - 123		
Trichloroethene			50.0	46.3		ug/L		93	80 - 123		
Vinyl chloride			50.0	50.0		ug/L		100	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-376789/5
Matrix: Water
Analysis Batch: 376789

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	49.4		ug/L		99	80 - 122	0	20
1,1-Dichloroethene			50.0	46.6		ug/L		93	74 - 125	10	20
Tetrachloroethene			50.0	48.3		ug/L		97	77 - 123	3	20
trans-1,2-Dichloroethene			50.0	47.6		ug/L		95	78 - 123	4	20
Trichloroethene			50.0	47.2		ug/L		94	80 - 123	2	20
Vinyl chloride			50.0	37.6		ug/L		75	68 - 132	28	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

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

Lab Sample ID: MB 680-376973/9
Matrix: Water
Analysis Batch: 376973

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:02	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:02	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 11:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:02	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 11:02	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/01/15 11:02*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/01/15 11:02*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/01/15 11:02*	*1*

Lab Sample ID: LCS 680-376973/4
Matrix: Water
Analysis Batch: 376973

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	50.8		ug/L		102	80 - 122		
1,1-Dichloroethene			50.0	46.5		ug/L		93	74 - 125		
Tetrachloroethene			50.0	48.3		ug/L		97	77 - 123		
trans-1,2-Dichloroethene			50.0	48.6		ug/L		97	78 - 123		
Trichloroethene			50.0	46.8		ug/L		94	80 - 123		
Vinyl chloride			50.0	43.7		ug/L		87	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-376973/5
Matrix: Water
Analysis Batch: 376973

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	49.6		ug/L		99	80 - 122	2	20
1,1-Dichloroethene			50.0	47.2		ug/L		94	74 - 125	1	20
Tetrachloroethene			50.0	48.3		ug/L		97	77 - 123	0	20
trans-1,2-Dichloroethene			50.0	48.7		ug/L		97	78 - 123	0	20
Trichloroethene			50.0	47.6		ug/L		95	80 - 123	2	20
Vinyl chloride			50.0	44.6		ug/L		89	68 - 132	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 680-376978/9
Matrix: Water
Analysis Batch: 376978

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:00	1
Tetrachloroethene	<1.0		1.0		ug/L			04/01/15 11:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/01/15 11:00	1
Trichloroethene	<1.0		1.0		ug/L			04/01/15 11:00	1
Vinyl chloride	<1.0		1.0		ug/L			04/01/15 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/01/15 11:00*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/01/15 11:00*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/01/15 11:00*	*1*

Lab Sample ID: LCS 680-376978/4
Matrix: Water
Analysis Batch: 376978

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	47.8		ug/L		96	80 - 122		
1,1-Dichloroethene			50.0	48.6		ug/L		97	74 - 125		
Tetrachloroethene			50.0	48.3		ug/L		97	77 - 123		
trans-1,2-Dichloroethene			50.0	48.5		ug/L		97	78 - 123		
Trichloroethene			50.0	47.7		ug/L		95	80 - 123		
Vinyl chloride			50.0	52.7		ug/L		105	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 680-376978/5
Matrix: Water
Analysis Batch: 376978

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	47.6		ug/L		95	80 - 122	0	20
1,1-Dichloroethene			50.0	47.9		ug/L		96	74 - 125	1	20
Tetrachloroethene			50.0	47.2		ug/L		94	77 - 123	2	20
trans-1,2-Dichloroethene			50.0	46.9		ug/L		94	78 - 123	3	20
Trichloroethene			50.0	46.4		ug/L		93	80 - 123	3	20
Vinyl chloride			50.0	49.9		ug/L		100	68 - 132	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

GC/MS VOA

Analysis Batch: 376789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50808-2	MW-48	Total/NA	Water	8260B	
640-50808-3	MW-47	Total/NA	Water	8260B	
640-50808-4	MW-38S	Total/NA	Water	8260B	
640-50808-5	MW-38	Total/NA	Water	8260B	
640-50808-8	MW-11	Total/NA	Water	8260B	
640-50808-11	MW-44	Total/NA	Water	8260B	
LCS 680-376789/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376789/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376789/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 376973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50808-1	Trip Blank	Total/NA	Water	8260B	
640-50808-6	MW-27	Total/NA	Water	8260B	
LCS 680-376973/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376973/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376973/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 376978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50808-7	MW-37	Total/NA	Water	8260B	
640-50808-9	MW-41	Total/NA	Water	8260B	
640-50808-10	MW-25D	Total/NA	Water	8260B	
LCS 680-376978/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376978/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376978/9	Method Blank	Total/NA	Water	8260B	

Client Sample ID: Trip Blank — **Lab Sample ID: 640-50808-1**
Date Collected: 03/24/15 08:30 — **Matrix: Water**
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376973	04/01/15 15:30	MMT	TAL SAV

Client Sample ID: MW-48 — **Lab Sample ID: 640-50808-2**
Date Collected: 03/24/15 08:55 — **Matrix: Water**
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376789	03/31/15 14:10	MMT	TAL SAV

Client Sample ID: MW-47 — **Lab Sample ID: 640-50808-3**
Date Collected: 03/24/15 09:45 — **Matrix: Water**
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376789	03/31/15 14:32	MMT	TAL SAV

Client Sample ID: MW-38S — **Lab Sample ID: 640-50808-4**
Date Collected: 03/24/15 10:30 — **Matrix: Water**
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376789	03/31/15 14:55	MMT	TAL SAV

Client Sample ID: MW-38 — **Lab Sample ID: 640-50808-5**
Date Collected: 03/24/15 11:00 — **Matrix: Water**
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376789	03/31/15 15:17	MMT	TAL SAV

Client Sample ID: MW-27 — **Lab Sample ID: 640-50808-6**
Date Collected: 03/24/15 11:40 — **Matrix: Water**
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	376973	04/01/15 15:53	MMT	TAL SAV

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Client Sample ID: MW-37

Lab Sample ID: 640-50808-7

Date Collected: 03/24/15 12:05
Matrix: Water
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	376978	04/01/15 11:48	MMT	TAL SAV

Client Sample ID: MW-11

Lab Sample ID: 640-50808-8

Date Collected: 03/24/15 14:20
Matrix: Water
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	376789	03/31/15 17:55	MMT	TAL SAV

Client Sample ID: MW-41

Lab Sample ID: 640-50808-9

Date Collected: 03/24/15 14:55
Matrix: Water
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	376978	04/01/15 12:10	MMT	TAL SAV

Client Sample ID: MW-25D

Lab Sample ID: 640-50808-10

Date Collected: 03/24/15 15:30
Matrix: Water
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	376978	04/01/15 12:31	MMT	TAL SAV

Client Sample ID: MW-44

Lab Sample ID: 640-50808-11

Date Collected: 03/24/15 16:10
Matrix: Water
Date Received: 03/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	376789	03/31/15 19:02	MMT	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Laboratory: TestAmerica Tallahassee

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15
Georgia	State Program	4		06-30-15
Louisiana	NELAP	6	30663	06-30-15
New Jersey	NELAP	2	FL012	06-30-15
Texas	NELAP	6	T104704459-15-7	03-31-16
USDA	Federal		P330-08-00158	10-14-17

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Mississippi	State Program	4	N/A	06-30-15

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50808-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-50808-1	Trip Blank	Water	03/24/15 08:30	03/25/15 09:10
640-50808-2	MW-48	Water	03/24/15 08:55	03/25/15 09:10
640-50808-3	MW-47	Water	03/24/15 09:45	03/25/15 09:10
640-50808-4	MW-38S	Water	03/24/15 10:30	03/25/15 09:10
640-50808-5	MW-38	Water	03/24/15 11:00	03/25/15 09:10
640-50808-6	MW-27	Water	03/24/15 11:40	03/25/15 09:10
640-50808-7	MW-37	Water	03/24/15 12:05	03/25/15 09:10
640-50808-8	MW-11	Water	03/24/15 14:20	03/25/15 09:10
640-50808-9	MW-41	Water	03/24/15 14:55	03/25/15 09:10
640-50808-10	MW-25D	Water	03/24/15 15:30	03/25/15 09:10
640-50808-11	MW-44	Water	03/24/15 16:10	03/25/15 09:10

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4/6/2015

Client Information	Sampler:	Lab PM: Jones, Matt	Carrier Tracking No(s):	COC No: 640-44123-7296.2
Client Contact: ~~Amy Mixon~~ Steven Elliott	Phone:	E-Mail: matt.jones@testamericainc.com		Page: Page 2 of 5
Company: Ecology and Environment, Inc.				Job #:
Address: 700 South Palafox Suite 100	Due Date Requested:			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32502				
Phone: 850-435-8925(Tel)	PO #: 001525.EN05.08			
Email: ~~amixon@ene.com~~ selliott@ene.com	WO #: 001525.EN05.08			
Project Name: Water Valley Mississippi, Former Holley	Project #: 64001574			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Short list	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
Trip Blank	3/24/15	0830	G	GW			X		2 vials
MW-48		0858					X		
MW-47		0945					X		
MW-38S		1030					X		
MW-38		1100					X		only 2 vials
MW-27		1140					X		
MW-37		1205					X		
MW-11		1420					X		
MW-41		1455					X		
MW-25D		1530					X		
MW-44	↓	1610	↓	↓			X		

640-50808 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/24/15 1800	Company ERE	Received by:	Date/Time: 3/25/15 0910	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.0°C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-50794-1
Client Project/Site: Water Valley Mississippi, Former Holley

For:
Ecology and Environment, Inc.
700 South Palafox
Suite 100
Pensacola, Florida 32502

Attn: Mr. Andrew M Hill

Authorized for release by:
4/1/2015 9:49:25 AM

Matt Jones, Project Management Assistant I
(850)878-3994
matt.jones@testamericainc.com

Table of Contents

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

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

Job ID: 640-50794-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-50794-1

Comments
No additional comments.

Receipt
The samples were received on 3/24/2015 at 9:20 AM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 8260B: The precision (%RPD) of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 376772 recovered outside control limits for 1,1,-Dichlorethene. Accuracy (%Rec.) for both the LCS and LCSD recovered within limits; therefore, the associated results have been reported and qualified.

Method 8260B: Insufficient sample volume was available to perform batch matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 376787. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

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

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-30D — Lab Sample ID: 640-50794-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-30S — Lab Sample ID: 640-50794-2

No Detections.

Client Sample ID: MW-30S-FD — Lab Sample ID: 640-50794-3

No Detections.

Client Sample ID: MW-35 — Lab Sample ID: 640-50794-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.3		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	230		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-35-FD — Lab Sample ID: 640-50794-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.4		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	230		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-31D — Lab Sample ID: 640-50794-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	58		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-31S — Lab Sample ID: 640-50794-7

No Detections.

Client Sample ID: MW-28S — Lab Sample ID: 640-50794-8

No Detections.

Client Sample ID: MW-28D — Lab Sample ID: 640-50794-9

No Detections.

Client Sample ID: MW-34 — Lab Sample ID: 640-50794-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-30D
Date Collected: 03/23/15 09:15
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 00:30	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 00:30	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 00:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 00:30	1
Trichloroethene	**3.1**		1.0		ug/L			03/31/15 00:30	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 00:30*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/31/15 00:30*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*03/31/15 00:30*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-30S
Date Collected: 03/23/15 09:50
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 00:50	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 00:50	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 00:50	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 00:50	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 00:50	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 00:50*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/31/15 00:50*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*03/31/15 00:50*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-30S-FD
Date Collected: 03/23/15 09:50
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 01:11	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 01:11	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 01:11	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 01:11	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 01:11	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/31/15 01:11*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*03/31/15 01:11*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*03/31/15 01:11*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-35
Date Collected: 03/23/15 10:45
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**4.3**		2.0		ug/L			03/31/15 13:56	2
1,1-Dichloroethene	<2.0		2.0		ug/L			03/31/15 13:56	2
Tetrachloroethene	<2.0		2.0		ug/L			03/31/15 13:56	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			03/31/15 13:56	2
Trichloroethene	**230**		2.0		ug/L			03/31/15 13:56	2
Vinyl chloride	<2.0		2.0		ug/L			03/31/15 13:56	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/31/15 13:56*	*2*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/31/15 13:56*	*2*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*03/31/15 13:56*	*2*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-35-FD
Date Collected: 03/23/15 10:45
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**4.4**		2.0		ug/L			03/31/15 13:11	2
1,1-Dichloroethene	<2.0		2.0		ug/L			03/31/15 13:11	2
Tetrachloroethene	<2.0		2.0		ug/L			03/31/15 13:11	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			03/31/15 13:11	2
Trichloroethene	**230**		2.0		ug/L			03/31/15 13:11	2
Vinyl chloride	<2.0		2.0		ug/L			03/31/15 13:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 13:11*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/31/15 13:11*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/31/15 13:11*	*2*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-31D
Date Collected: 03/23/15 11:30
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**13**		1.0		ug/L			03/31/15 02:13	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 02:13	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 02:13	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 02:13	1
Trichloroethene	**58**		1.0		ug/L			03/31/15 02:13	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/31/15 02:13*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/31/15 02:13*	*1*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*03/31/15 02:13*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-31S
Date Collected: 03/23/15 12:10
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 02:33	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 02:33	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 02:33	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 02:33	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 02:33	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/31/15 02:33*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/31/15 02:33*	*1*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*03/31/15 02:33*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-28S
Date Collected: 03/23/15 14:10
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 02:54	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 02:54	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 02:54	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 02:54	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 02:54	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/31/15 02:54*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/31/15 02:54*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/31/15 02:54*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-28D
Date Collected: 03/23/15 14:40
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 03:15	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			03/31/15 03:15	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 03:15	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 03:15	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 03:15	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/15 03:15*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/31/15 03:15*	*1*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*03/31/15 03:15*	*1*

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-34
Date Collected: 03/23/15 15:25
Date Received: 03/24/15 09:20

Lab Sample ID: 640-50794-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 15:49	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 15:49	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 15:49	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 15:49	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 15:49	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/31/15 15:49*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/31/15 15:49*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/31/15 15:49*	*1*

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
640-50794-1	MW-30D	100	100	112
640-50794-2	MW-30S	100	102	112
640-50794-2 MS	MW-30S	108	102	111
640-50794-2 MSD	MW-30S	107	100	112
640-50794-3	MW-30S-FD	96	107	120
640-50794-4	MW-35	98	98	91
640-50794-5	MW-35-FD	100	101	93
640-50794-6	MW-31D	99	101	115
640-50794-7	MW-31S	99	102	117
640-50794-8	MW-28S	101	100	111
640-50794-9	MW-28D	100	101	118
640-50794-10	MW-34	99	100	92
LCS 680-376772/4	Lab Control Sample	106	95	108
LCS 680-376787/4	Lab Control Sample	95	103	94
LCSD 680-376772/5	Lab Control Sample Dup	105	100	108
LCSD 680-376787/5	Lab Control Sample Dup	95	96	92
MB 680-376772/8	Method Blank	99	98	119
MB 680-376787/9	Method Blank	99	101	91

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 680-376772/8
Matrix: Water
Analysis Batch: 376772

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/30/15 20:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/30/15 20:24	1
Tetrachloroethene	<1.0		1.0		ug/L			03/30/15 20:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/30/15 20:24	1
Trichloroethene	<1.0		1.0		ug/L			03/30/15 20:24	1
Vinyl chloride	<1.0		1.0		ug/L			03/30/15 20:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/30/15 20:24*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/30/15 20:24*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*03/30/15 20:24*	*1*

Lab Sample ID: LCS 680-376772/4
Matrix: Water
Analysis Batch: 376772

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	48.7		ug/L		97	80 - 122		
1,1-Dichloroethene			50.0	49.1		ug/L		98	74 - 125		
Tetrachloroethene			50.0	54.3		ug/L		109	77 - 123		
trans-1,2-Dichloroethene			50.0	47.4		ug/L		95	78 - 123		
Trichloroethene			50.0	48.7		ug/L		97	80 - 123		
Vinyl chloride			50.0	60.0		ug/L		120	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-376772/5
Matrix: Water
Analysis Batch: 376772

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	49.7		ug/L		99	80 - 122	2	20
1,1-Dichloroethene			50.0	60.4	*	ug/L		121	74 - 125	21	20
Tetrachloroethene			50.0	52.2		ug/L		104	77 - 123	4	20
trans-1,2-Dichloroethene			50.0	47.7		ug/L		95	78 - 123	1	20
Trichloroethene			50.0	48.2		ug/L		96	80 - 123	1	20
Vinyl chloride			50.0	57.4		ug/L		115	68 - 132	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: 640-50794-2 MS
Matrix: Water
Analysis Batch: 376772

Client Sample ID: MW-30S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	<1.0		50.0	50.2		ug/L		100	80 - 122
1,1-Dichloroethene	<1.0	*	50.0	49.5		ug/L		99	74 - 125
Tetrachloroethene	<1.0		50.0	54.0		ug/L		108	77 - 123
trans-1,2-Dichloroethene	<1.0		50.0	48.8		ug/L		98	78 - 123
Trichloroethene	<1.0		50.0	49.3		ug/L		99	80 - 123
Vinyl chloride	<1.0		50.0	58.9		ug/L		118	68 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 640-50794-2 MSD
Matrix: Water
Analysis Batch: 376772

Client Sample ID: MW-30S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	<1.0		50.0	48.6		ug/L		97	80 - 122	3	20
1,1-Dichloroethene	<1.0	*	50.0	46.1		ug/L		92	74 - 125	7	20
Tetrachloroethene	<1.0		50.0	53.2		ug/L		106	77 - 123	1	20
trans-1,2-Dichloroethene	<1.0		50.0	49.0		ug/L		98	78 - 123	0	20
Trichloroethene	<1.0		50.0	49.7		ug/L		99	80 - 123	1	20
Vinyl chloride	<1.0		50.0	57.6		ug/L		115	68 - 132	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 680-376787/9
Matrix: Water
Analysis Batch: 376787

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 10:48	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/31/15 10:48	1
Tetrachloroethene	<1.0		1.0		ug/L			03/31/15 10:48	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/31/15 10:48	1
Trichloroethene	<1.0		1.0		ug/L			03/31/15 10:48	1
Vinyl chloride	<1.0		1.0		ug/L			03/31/15 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/31/15 10:48*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/31/15 10:48*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*03/31/15 10:48*	*1*

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

Lab Sample ID: LCS 680-376787/4
Matrix: Water
Analysis Batch: 376787

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			50.0	50.4		ug/L		101	80 - 122		
1,1-Dichloroethene			50.0	44.5		ug/L		89	74 - 125		
Tetrachloroethene			50.0	47.1		ug/L		94	77 - 123		
trans-1,2-Dichloroethene			50.0	48.0		ug/L		96	78 - 123		
Trichloroethene			50.0	46.4		ug/L		93	80 - 123		
Vinyl chloride			50.0	42.2		ug/L		84	68 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-376787/5
Matrix: Water
Analysis Batch: 376787

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	49.6		ug/L		99	80 - 122	2	20
1,1-Dichloroethene			50.0	47.9		ug/L		96	74 - 125	7	20
Tetrachloroethene			50.0	49.1		ug/L		98	77 - 123	4	20
trans-1,2-Dichloroethene			50.0	48.5		ug/L		97	78 - 123	1	20
Trichloroethene			50.0	47.2		ug/L		94	80 - 123	2	20
Vinyl chloride			50.0	45.9		ug/L		92	68 - 132	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

GC/MS VOA

Analysis Batch: 376772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50794-1	MW-30D	Total/NA	Water	8260B	
640-50794-2	MW-30S	Total/NA	Water	8260B	
640-50794-2 MS	MW-30S	Total/NA	Water	8260B	
640-50794-2 MSD	MW-30S	Total/NA	Water	8260B	
640-50794-3	MW-30S-FD	Total/NA	Water	8260B	
640-50794-6	MW-31D	Total/NA	Water	8260B	
640-50794-7	MW-31S	Total/NA	Water	8260B	
640-50794-8	MW-28S	Total/NA	Water	8260B	
640-50794-9	MW-28D	Total/NA	Water	8260B	
LCS 680-376772/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376772/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376772/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 376787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-50794-4	MW-35	Total/NA	Water	8260B	
640-50794-5	MW-35-FD	Total/NA	Water	8260B	
640-50794-10	MW-34	Total/NA	Water	8260B	
LCS 680-376787/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-376787/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-376787/9	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-30D — Lab Sample ID: 640-50794-1

Date Collected: 03/23/15 09:15 — **Matrix: Water**
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 00:30	JD1	TAL SAV

Client Sample ID: MW-30S — Lab Sample ID: 640-50794-2

Date Collected: 03/23/15 09:50 — **Matrix: Water**
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 00:50	JD1	TAL SAV

Client Sample ID: MW-30S-FD — Lab Sample ID: 640-50794-3

Date Collected: 03/23/15 09:50 — **Matrix: Water**
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 01:11	JD1	TAL SAV

Client Sample ID: MW-35 — Lab Sample ID: 640-50794-4

Date Collected: 03/23/15 10:45 — **Matrix: Water**
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	376787	03/31/15 13:56	MMT	TAL SAV

Client Sample ID: MW-35-FD — Lab Sample ID: 640-50794-5

Date Collected: 03/23/15 10:45 — **Matrix: Water**
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	376787	03/31/15 13:11	MMT	TAL SAV

Client Sample ID: MW-31D — Lab Sample ID: 640-50794-6

Date Collected: 03/23/15 11:30 — **Matrix: Water**
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 02:13	JD1	TAL SAV

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Client Sample ID: MW-31S
Lab Sample ID: 640-50794-7

Date Collected: 03/23/15 12:10
Matrix: Water
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 02:33	JD1	TAL SAV

Client Sample ID: MW-28S
Lab Sample ID: 640-50794-8

Date Collected: 03/23/15 14:10
Matrix: Water
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 02:54	JD1	TAL SAV

Client Sample ID: MW-28D
Lab Sample ID: 640-50794-9

Date Collected: 03/23/15 14:40
Matrix: Water
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376772	03/31/15 03:15	JD1	TAL SAV

Client Sample ID: MW-34
Lab Sample ID: 640-50794-10

Date Collected: 03/23/15 15:25
Matrix: Water
Date Received: 03/24/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	376787	03/31/15 15:49	MMT	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Laboratory: TestAmerica Tallahassee

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-15

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-15

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: Water Valley Mississippi, Former Holley

TestAmerica Job ID: 640-50794-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-50794-1	MW-30D	Water	03/23/15 09:15	03/24/15 09:20
640-50794-2	MW-30S	Water	03/23/15 09:50	03/24/15 09:20
640-50794-3	MW-30S-FD	Water	03/23/15 09:50	03/24/15 09:20
640-50794-4	MW-35	Water	03/23/15 10:45	03/24/15 09:20
640-50794-5	MW-35-FD	Water	03/23/15 10:45	03/24/15 09:20
640-50794-6	MW-31D	Water	03/23/15 11:30	03/24/15 09:20
640-50794-7	MW-31S	Water	03/23/15 12:10	03/24/15 09:20
640-50794-8	MW-28S	Water	03/23/15 14:10	03/24/15 09:20
640-50794-9	MW-28D	Water	03/23/15 14:40	03/24/15 09:20
640-50794-10	MW-34	Water	03/23/15 15:25	03/24/15 09:20

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4/1/2015

Client Information	Sampler: SE	Lab PM: Jones, Matt	Carrier Tracking No(s):	COC No: 640-44123-7296.1
Client Contact: ~~Amy Mixon~~ Steven Elliott	Phone:	E-Mail: matt.jones@testamericainc.com		Page: Page 1 of 5
Company: Ecology and Environment, Inc.		Analysis Requested		Job #: 640-50794
Address: 700 South Palafox Suite 100	Due Date Requested:			Preservation Codes:
City: Pensacola	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:
State, Zip: FL, 32502				
Phone: 850-435-8925(Tel)	PO #: 001525.EN05.08			
Email: amixon@ene.com	WO #: 001525.EN05.08			
Project Name: Water Valley Mississippi, Former Holley	Project #: 64001574			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Short list	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-30D	3/23/15	0915	G	GW			X		
MW-30S		0950	G	GW		X	X		
MW-30S-FD		~~0950~~	G	GW			X		
MW-35		1045	G	GW			X		
MW-35-FD		1045	G	GW			X		
MW-31D		1130	G	GW			X		
MW-31S		1210	G	GW			X		
MW-28S		1410	G	GW			X		
MW-28D		1440	G	GW			X		
MW-34		1525	G	GW			X		

640-50794 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 1/26/15	Time: 1455	Method of Shipment:				
Relinquished by: 3/23/15	Date/Time: 3/23/15 1630	Company E+E	Received by:	Date/Time: 3/24/15 0920	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3°