

SECOND SEMIANNUAL VRP PROGRESS REPORT CAPITOL USA – DALTON FACILITY Dalton, Georgia

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Senior Environmental Engineer

October 2012

**SECOND SEMIANNUAL VRP PROGRESS REPORT
CAPITOL USA – DALTON FACILITY
Dalton, Georgia**

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PROFESSIONAL GEOLOGIST CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

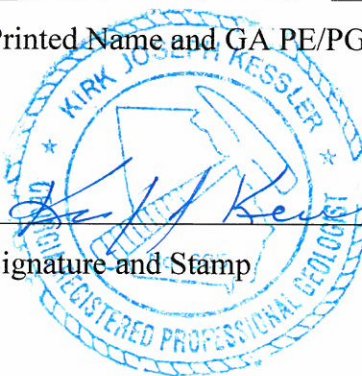
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Printed Name and GA PE/PG Number

10/3/2012

Date

Signature and Stamp



1 INTRODUCTION

CEA, LLC (CEA) submitted a revised application for the Voluntary Remediation Program (VRP) (which the EPD refers to as the Voluntary Investigation and Remediation Plan, VIRP) for the Capitol USA – Dalton Facility in May 2011. In a letter dated October 3, 2011, the Georgia Environmental Protection Division (EPD) accepted CEA as a participant into the VRP. Pursuant to the conditions of the acceptance letter, the First Semiannual Progress Report for the Capitol Site was submitted in April 2012.

The Capitol Site is located at 300 Cross Plains Boulevard, Dalton, Georgia (Site). The Site is located on a total parcel of approximately 15.31 acres. The facility is currently operated by QEP Co., Inc.

This Second Semiannual Progress Report (Progress Report) summarizes (by task) what actions have been taken since the First Semiannual Progress Report was submitted (April 2012) and the upcoming activities.

2 VRP PROJECT MANAGEMENT

2.1 Professional Geologist Oversight

This Progress Report includes certification by the Professional Geologist (Kirk Kessler) specified in the VRP. Appendix A contains a monthly summary of hours invoiced and description of services provided.

2.2 Milestone Schedule

A revised projected milestone schedule has been attached as Figure 1.

2.3 Conceptual Site Model

The Conceptual Site Model (CSM) has been updated with data collected from a recent groundwater sampling event (including two newly installed wells) and a recent investigation of the subsurface conditions underneath the AST containment area. The updated CSM is included as Appendix B.

3 MONITORING WELL INSTALLATION

3.1 Actions Completed

As mentioned in the VIRP, wells MW-1 and MW-1D are no longer operable. The wells were placed in the location where it was originally believed that the catastrophic spill occurred. However, information discovered later indicated that the spill was actually located north of the AST area. Thus, the locations of MW-1 and MW-1D are not optimal for evaluating site conditions. Accordingly, different locations for the replacement wells were agreed upon during conversations with the EPD. CEA submitted a plan to replace these wells in the First Semiannual Progress Report. These wells were installed the week of August 20, 2012 per the plan and EPA Region 4 *Field Branches Quality System and Technical Procedures* (SESDGUID-101-RO, February 2008). The locations of these wells are shown on Figure 2. Well construction diagrams are included in Appendix C.

3.1.1 Installation of MW-1R

Residuum well MW-1R was installed just to the west of the driveway as shown on Figure 2. A 2-inch Schedule 40 PVC monitoring well was installed to a depth of 25 feet using hollow-stem auger techniques. A fifteen-foot 0.01-inch slotted screen was installed from 10 to 25 feet. A granular sand filter pack was installed approximately 6 inches below the screen and two feet above the screen. A bentonite pellet seal, consisting of 2 feet of dry bentonite, was placed above the filter pack and allowed to hydrate prior to pressure grouting the bentonite/cement grout in the well annulus.

Once the annular grout had cured, the well was completed in a 12-inch diameter flush-mounted well vault within a 3-foot by 3-foot by 4-inch concrete well pad. The well was developed more than 24 hours after the installation of the well pad in accordance with SESDGUID-101-R0. The well was developed until it was free of visible sediment, and the pH, turbidity, and specific conductivity had stabilized.

3.1.2 Installation of MW-3B

Bedrock well MW-3B was installed near the MW-3/MW-3D well pair as shown on Figure 2. A 2-inch diameter monitoring well was installed in accordance with EPA Region 4 *Field Branches Quality System and Technical Procedures* (SESDGUID-101-RO, February 2008). The well was triple cased to prevent contaminant migration into the bedrock. Hollow-stem auger techniques were used to advance through the overlying residuum soils. Auger refusal was encountered at 18 feet. At this depth a 6-inch inside diameter (ID) PVC outer casing was installed and grouted in place by pressure grouting a cement/bentonite grout through a tremmie pipe and grout shoe attached to the base of the outer casing. The annulus was grouted up to just below the ground surface. The grout was allowed to cure prior to advancing the borehole.

Air hammer techniques were then used to advance the borehole to 25 feet (approximately 7 feet into the competent bedrock). At this depth a 4-inch ID PVC outer casing was installed and grouted in place. After the grout had cured, the borehole was advanced. Weathered shale bedrock extended to a depth of approximately 31 feet, where more competent rock (shale) was encountered. The competency of the rock changed to a much harder rock (possibly limestone) at a depth of around 41 feet. The boring was further advanced to a total depth of 49 (end of drilling rod) and the borehole drilling was terminated.

Three packer tests were conducted at different depth intervals. The first packer test was conducted in the 44 to 49 foot interval using a single packer with 5 ft of screen. The test protocol involved pumping to induce drawdown within the isolated test zone, then terminating the pumping to monitor the rate of recovery. The recovery rate in this lower interval was 0.1 ft/min. The packer apparatus was then changed to a double packer with 10 ft of screen and the test was run at the depth interval of 34 to 44 feet. The recovery rate for this depth interval was 0.4 ft/min. A final packer test was run for the 25 to 35 feet interval and a recovery of 0.1 ft/min was observed.

It was decided to place a 10-ft well screen from 35 to 45 feet. The screen length and location was selected to span the area of highest yield and to be located at the interface between the shale and limestone layers. The boring was completed with a 2-inch diameter Schedule 40 PVC monitoring to a depth of 35 ft. A bentonite layer and then a sand layer were placed in the bottom of the borehole prior to installing the well screen. A granular sand filter pack was installed to 12.5 ft above the screen. A 2-ft bentonite pellet seal was placed above the filter pack and allowed to hydrate prior to pressure grouting a bentonite/cement in the well annulus.

Once the annular grout had cured, the well was completed in a 12-inch diameter flush-mounted well vault within a 3-foot by 3-foot by 4-inch concrete well pad. The well was then developed 24 hours after the installation of the well pad in accordance with SESDGUID-101-R0. The well was developed until it was free of visible sediment, and the pH, turbidity, and specific conductivity had stabilized.

3.1.3 Survey and Repair of MW-4

The well pad for MW-4 had been damaged due to traffic at the facility. The well pad was repaired during the well installation event. After MW-4 was repaired and MW-1R and MW-3B were installed, a surveyor determined the x,y-coordinates and top-of-casing elevations for each of these wells.

4 SEMIANNUAL GROUNDWATER SAMPLING

4.1 Actions Completed

The VIRP specifies that semiannual groundwater sampling will be conducted for a period of at least two years. The groundwater monitoring program consists of

- Annual monitoring
 - Of all wells for volatile organic compounds (VOCs)
 - Of specific wells (MW-3, MW-3D, MW-4, and MW-5) for monitored natural attenuation (MNA) parameters
- Semi-annual monitoring (in between “annual monitoring” events)
 - Of specific wells (MW-3, MW-3D, MW-4, MW-5, MW-15, MW-1R and MW-16) for VOCs

In August 2012, the second groundwater sampling event was conducted. This “semi-annual” event consisted of monitoring the wells specified above and the newly installed wells for VOCs.

4.1.1 Water Level Measurements

Prior to purging the wells, the depth to water was determined for each well. Groundwater elevations were calculated and are shown on Table 1. The groundwater elevations were relatively the same across the Site possibly due to drought conditions during the sampling event. However, historically the groundwater flow direction is to the northeast. More information about the historic water levels at the site is included in the the Conceptual Site Model (Appendix B).

4.1.2 Methods

The sampling methods used in this event were the same as in previous events. Specifically, well purging was accomplished by low-stress purging techniques using a peristaltic pump with Teflon tubing. After purging was complete (based on the stabilization of water quality parameters), samples of the groundwater were collected using the straw method. The sample containers were placed in a cooler, at 4° C, and maintained under Chain-of-Custody until delivery to the analytical laboratory (Analytical Environmental Services, Inc. of Atlanta, Georgia).

4.1.3 Results

In August 2012, samples from the eight wells (MW-1R, MW-3, MW-3B, MW-3D, MW-4, MW-5, MW-15, and MW-16) at the Site were collected and analyzed for VOCs using Method 8260B. A complete copy of the August 2012 analytical testing results is provided in Appendix D and the results of the detected constituents are summarized in Table 2. Values that exceed the Type 1 RRS are highlighted in yellow.

Groundwater concentrations of total chlorinated ethenes (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [DCE], and vinyl chloride [VC]) from the August 2012 sampling event are shown in Figure 3. Similarly, groundwater concentrations of total chlorinated ethanes (1,1,1-Trichloroethane [TCA], 1,1-dichloroethane [DCA], and chloroethane [CA]) are shown in Figure 4. Similar to previous sampling events, groundwater exhibits the highest concentrations immediately north of the tanker truck spill area with decreasing concentrations in the direction of the groundwater flow (northeast).

The results from the newly installed MW-1R were all below the detection limit indicating that as depicted in previous documents the plume has not reached this location. The results from the newly installed bedrock well MW-3B show concentrations above the Type 1 RRS for several constituents. However, in the MW-3 well cluster (MW-3, MW-3D, MW-3B), the concentrations decrease with depth. This information has been incorporated into the CSM (Appendix B).

4.1.4 Groundwater Modeling

Groundwater computer models using BIOCHLOR were developed and presented in the VIRP. In an effort to conservatively model site conditions, the models were calibrated using the empirical data collected from 2004 through 2007, prior to the EHC[®] injections. Therefore, the models assume that there is no impact from the injections. The models predict estimated concentrations that are higher than seen in empirical data collected after the injections. Thus, the models conservatively estimate future concentrations.

The groundwater models were run for the year 2012 while plotting the results from the August 2012 sampling event. The results for the chlorinated ethene and chlorinated ethane models for 2012 are shown in Figure 5 and 6, respectively. The comparison of the analytical data to the modeling results in 2012 is similar to the 2010 results. Thus, it does not appear necessary to alter the model at this point. The model continues to overestimate the concentrations of the constituents, providing a conservative assessment of future conditions.

4.2 Upcoming Actions

The next groundwater sampling event will be an annual event where samples collected from all wells are analyzed for VOCs. This sampling event will be conducted during the first quarter of 2013. Vertical delineation of groundwater will continue to be performed.

5 SOURCE AREA EVALUATION

5.1 Actions Completed

An investigation of the solid matrix material underneath and just north of the AST containment area was conducted in July, 2012. The work plan for this sampling event is provided in Appendix E. This investigation included coring through the concrete slab at five locations within the AST containment area and at four locations surrounding the location (SO-3) where the highest concentrations in solid matrix material had been observed in the past. Samples were collected at 1 ft and 3 ft bgs (below ground surface) in each sample location. The samples were analyzed for the chlorinated ethenes (PCE, TCE, DCE, and VC) and ethanes (TCA, DCA, and CA) of interest at the Site. The analytical results are summarized on Table 3, Figure 7 and Figure 8. The laboratory data report is presented in Appendix F.

The results show low concentrations around the historical high spot (SO-3) north of the AST. However, two locations (SS-AST-8 and SS-AST-9) in the AST containment area have significantly higher concentrations than the other samples. This information has been incorporated into the CSM (Appendix B).

5.2 Upcoming Actions

CEA will evaluate the results of this investigation and will submit a remedial action plan in a future Progress Report.

6 REFERENCES

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TABLES

Capitol Adhesives

Table 1. Depth to Groundwater Measurements 2011-2012

		TOC Elevation (ft msl)	Ground Elevation (ft msl)	Depth to Water (ft btoc)	Potentiometric Elevation (ft msl)	Depth to GW from Ground Surface (ft)
MW-1R	8/23/2012	672.01		3.78	668.23	
MW-2	4/22/2011	675.33	675.51	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
	8/23/2012			6.65	668.68	6.83
MW-2D	4/22/2011	674.79	675.36	0		0
	4/29/2011			0		0
	5/6/2011			6.00	668.79	6.57
	2/7/2012			0		0
	8/23/2012			6.04	668.75	6.61
MW-3	4/22/2011	673.83	673.87	0		0
	4/29/2011			0.51	673.32	0.55
	5/6/2011			0.71	673.12	0.75
	2/7/2012			1.29	672.54	1.33
	8/23/2012			5.40	668.43	5.44
MW-3D	4/22/2011	673.87	674.14	0.58	673.29	0.85
	4/29/2011			0.52	673.35	0.79
	5/6/2011			0.74	673.13	1.01
	2/7/2012			0.4	673.47	0.67
	8/23/2012			5.25	668.62	5.52
MW-3B	8/24/2012	674.32		5.29	669.03	
MW-4	4/22/2011	671.38	671.85	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
	8/23/2012	671.93		2.62	669.31	2.54
MW-5	4/22/2011	670.88	670.13	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
	8/23/2012			2.47	668.41	1.72
MW-6	4/22/2011	674.92	675.28	2.42	672.50	2.78
	4/29/2011			3.82	671.10	4.18
	5/6/2011			3.01	671.91	3.37
	2/7/2012			2.72	672.20	3.08
	8/23/2012			6.36	668.56	6.72
MW-7	4/22/2011	675.63	674.71	0		0
	4/29/2011			0.32	675.31	-0.60
	5/6/2011			0.87	674.76	-0.05
	2/7/2012			0		0
	8/23/2012			6.79	668.84	5.87

Capitol Adhesives

Table 1. Depth to Groundwater Measurements 2011-2012

		TOC Elevation (ft msl)	Ground Elevation (ft msl)	Depth to Water (ft btoc)	Potentiometric Elevation (ft msl)	Depth to GW from Ground Surface (ft)
MW-8	4/22/2011	674.52	674.99	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
	8/23/2012			5.82	668.70	6.29
MW-9	4/22/2011	675.44	675.80	0		0
	4/29/2011			0		0
	5/6/2011			0.51	674.93	0.87
	2/7/2012			0		0
	8/23/2012			6.48	668.96	6.84
MW-10	4/22/2011	675.54	675.70	0.43	675.11	0.59
	4/29/2011			0.80	674.74	0.96
	5/6/2011			1.35	674.19	1.51
	2/7/2012			0.7	674.84	0.86
	8/23/2012			6	669.21	6.49
MW-11	4/22/2011	675.31	675.80	1.60	673.71	2.09
	4/29/2011			2.08	673.23	2.57
	5/6/2011			2.42	672.89	2.91
	2/7/2012			1.92	673.39	2.41
	8/23/2012			--		
MW-12	4/22/2011	675.76	675.76	3.32	672.44	3.32
	4/29/2011			3.29	672.47	3.29
	5/6/2011			3.53	672.23	3.53
	2/7/2012			3.36	672.40	3.36
	8/23/2012			6.92	668.84	6.92
MW-13	4/22/2011	676.70	677.06	1.80	674.90	2.16
	4/29/2011			2.53	674.17	2.89
	5/6/2011			3.23	673.47	3.59
	2/7/2012			2.24	674.46	2.60
	8/23/2012			8.53	668.17	8.89
MW-14	4/22/2011	673.05	673.36	0		0
	4/29/2011			0.45	672.60	0.76
	5/6/2011			0.75	672.30	1.06
	2/7/2012			0		0
	8/23/2012			5.00	668.05	5.31
MW-15	4/22/2011	670.91	671.33	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
	8/23/2012			3.07	667.84	3.49

Capitol Adhesives

Table 1. Depth to Groundwater Measurements 2011-2012

		TOC Elevation (ft msl)	Ground Elevation (ft msl)	Depth to Water (ft btoc)	Potentiometric Elevation (ft msl)	Depth to GW from Ground Surface (ft)
MW-16	4/22/2011	669.70	670.24	0.13	669.58	0.66
	4/29/2011			0.45	669.25	0.99
	5/6/2011			0.69	669.01	1.23
	2/7/2012			0.3	669.40	0.84
	8/23/2012			2.62	667.08	3.16
MW-17	4/22/2011	676.26		0.72	675.54	
	4/29/2011			1.18	675.08	
	5/6/2011			1.50	674.76	
	2/7/2012			0.88	675.38	
	8/23/2012			--		

Capitol Adhesives

Table 2. Analytical Results for Constituents Detected in Groundwater - August, 2012 Sampling Event (mg/L)

Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2-Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1-Trichloroethane	1,1-Dichloro ethane	Chloro ethane	Total Chlorinated Ethanes
Type 1 RRS		0.005	0.005	0.07	0.002		0.2	4	DL	
MW-1R	8/23/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	<0.005
MW-3	8/24/12	3.4	6.1	2.9	0.23	12.63	0.52	0.54	<0.01	1.06
MW-3D	8/24/12	0.88	1.1	0.51	0.1	2.59	0.3	0.18	<0.01	0.48
MW-3D (Dup)	8/24/12	0.9	1.1	0.45	0.11	2.56	0.25	0.18	<0.01	0.43
MW-3B	8/24/12	0.52	0.37	0.15	0.061	1.10	0.04	0.075	<0.01	0.115
MW-4	8/23/12	<0.005	0.013	0.012	0.0058	0.0308	<0.005	<0.005	<0.01	ND
MW-5	8/23/12	<0.005	<0.005	<0.005	0.0044	0.0044	<0.005	0.025	0.17	0.195
MW-15	8/23/12	<0.005	0.017	0.027	0.0054	0.0494	<0.005	<0.005	<0.01	ND
MW-16	8/23/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND

Well	Date Sampled	1,1,2-Trichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	Acetone	Benzene	Chloroform	Dichloro methane (Methylene chloride)	Methyl cyclo hexane	o-Xylene	Toluene	trans-1,2-Dichloroethene
Type 1 RRS		0.005	0.007	0.005	4	0.005	0.08	0.005	DL	10	1	0.1
MW-1R	8/23/12	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3	8/24/12	0.047	3	1.3	<0.05	0.013	1.8	0.045	0.0068	0.0052	0.0072	0.18
MW-3D	8/24/12	0.0079	0.46	0.24	<0.05	<0.005	0.23	0.014	<0.005	<0.005	<0.005	0.033
MW-3D (Dup)	8/24/12	0.0075	0.49	0.19	<0.05	<0.005	0.23	0.014	<0.005	<0.005	<0.005	0.032
MW-3B	8/24/12	<0.005	0.17	0.04	<0.05	<0.005	0.02	<0.005	<0.005	<0.005	<0.005	0.0089
MW-4	8/23/12	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-5	8/23/12	<0.005	<0.005	0.0085	<0.05	<0.005	<0.005	0.0061	<0.005	<0.005	<0.005	0.014
MW-15	8/23/12	<0.005	0.016	<0.005	<0.05	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-16	8/23/12	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND: Not detected

Result greater than Type 1 RRS

Capitol Adhesives

Table 3. Analytical Results for July 2012 AST Area Solid Matrix Sampling (mg/kg)

Location	Date	Depth (ft bgs)	Chlorinated Ethenes				Chlorinated Ethanes		
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Chloroethane
SS-AST-3	7/23/2012	1	0.11	0.058	3.6	0.042	<0.003	0.05	<0.0061
SS-AST-3	7/23/2012	2	0.35	0.18	3.3	0.081	<0.0032	0.075	<0.0064
SS-AST-4	7/23/2012	1	0.0047	<0.0028	0.0031	<0.0056	<0.0028	<0.0028	<0.0056
SS-AST-4	7/23/2012	2	0.0042	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0066
SS-AST-5	7/23/2012	1	0.0039	<0.0027	<0.0027	<0.0055	<0.0027	<0.0027	<0.0055
SS-AST-5	7/23/2012	2	0.011	<0.0032	0.0083	<0.0064	<0.0032	<0.0032	<0.0064
SS-AST-6	7/23/2012	1	0.039	0.0088	0.011	<0.0057	0.0035	<0.0028	<0.0057
SS-AST-6	7/23/2012	2	0.047	0.011	0.0077	<0.0066	<0.0033	<0.0033	<0.0066
SS-AST-7	7/23/2012	1	0.013	0.0096	1.9	0.24	<0.003	0.62	0.07
SS-AST-7	7/23/2012	2	0.014	0.0086	2	0.31	<0.0031	1.2	0.037
SS-AST-8	7/23/2012	1	64	58	11	<3.4	66	6.8	<3.4
SS-AST-8	7/23/2012	2	6.5	13	6.2	<3.2	4.7	8.7	<3.2
SS-AST-9	7/23/2012	1	380	34	66	<3	2.1	1.5	<3
SS-AST-9	7/23/2012	2	660	97	55	<3.7	15	2.1	<3.7
SS-AST-10	7/23/2012	1	0.0054	<0.0029	0.004	<0.0057	<0.0029	<0.0029	<0.0057
SS-AST-10	7/23/2012	2	0.02	0.01	0.013	<0.0067	<0.0033	<0.0033	<0.0067
SS-AST-10 (Dup)	7/23/2012	1	0.058	0.018	0.016	<0.0074	0.0043	<0.0037	<0.0074
SS-AST-11	7/23/2012	1	0.0095	0.0061	0.0066	<0.0057	<0.0028	0.0043	<0.0057
SS-AST-11	7/23/2012	2	0.013	0.008	0.0091	<0.0067	<0.0034	<0.0034	<0.0067

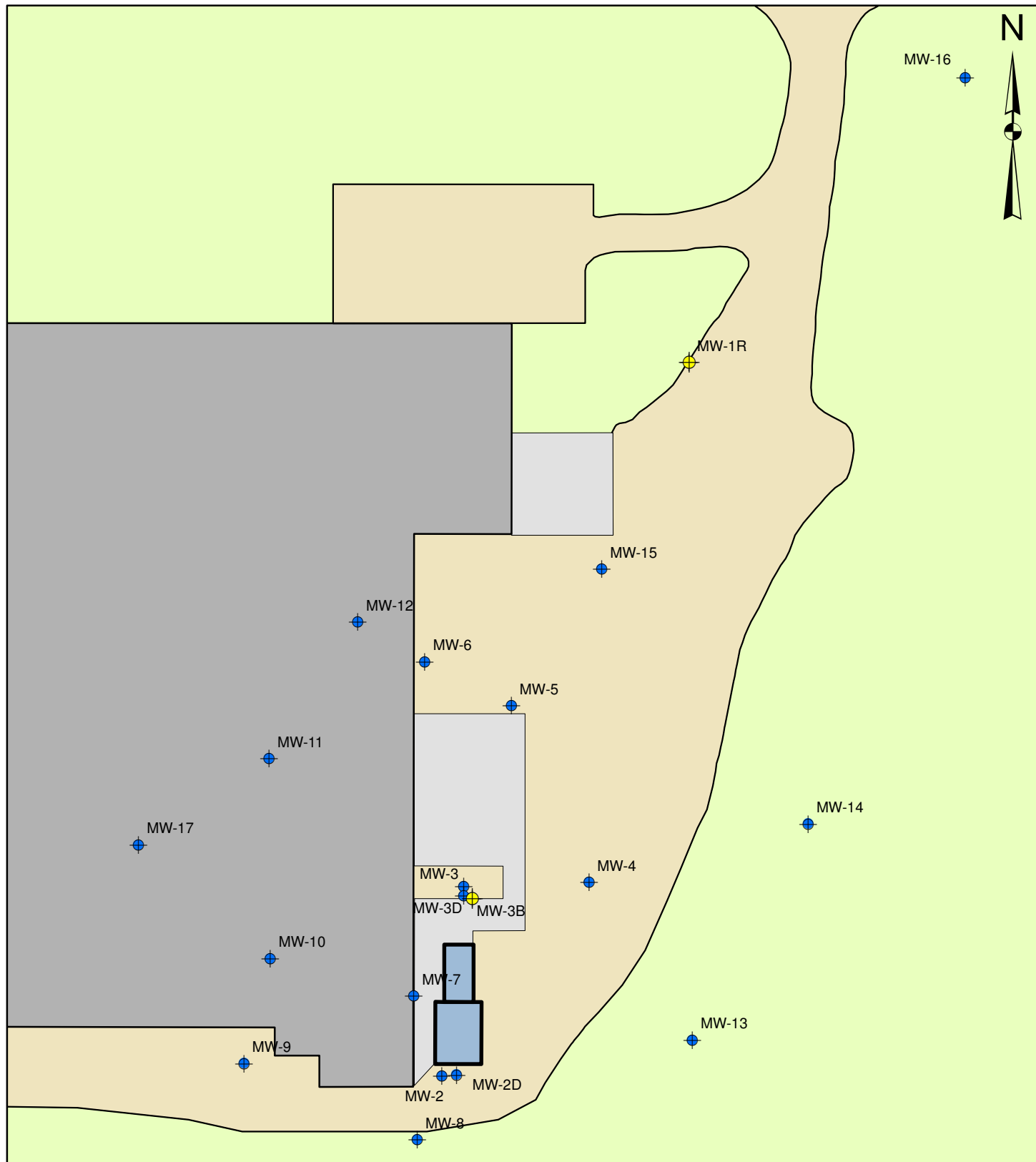
FIGURES

Figure 1
Projected Milestone Schedule

ID	Task Name	2011	2012				2013				2014				2015				2016			
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Project Mangement																					
	Financial Assurance with cost estimate	Nov 1																				
	Semiannual Progress Reports			Apr 3		Oct 3		Apr 3		Oct 3		Apr 3		Oct 3		Apr 3		Oct 3		Apr 3		CSR Oct 3
	Horizontal and vertical delineation, final remediation plan, cost estimate for remediation											Apr 3										
2	Well Installation																					
3	Groundwater Sampling		Annual		Semi-Annual		Annual		Semi-Annual													
4	Source Area Evaluation and Remedial Action							Prelim Remediation Plan				Final Remediation Plan										
5	Human Health Risk Evaluation							Prelim Risk Evaluation														CSR

Complete
 EPD Deadline
 Internal Deadline

Capitol Adhesives Monitoring Well Locations

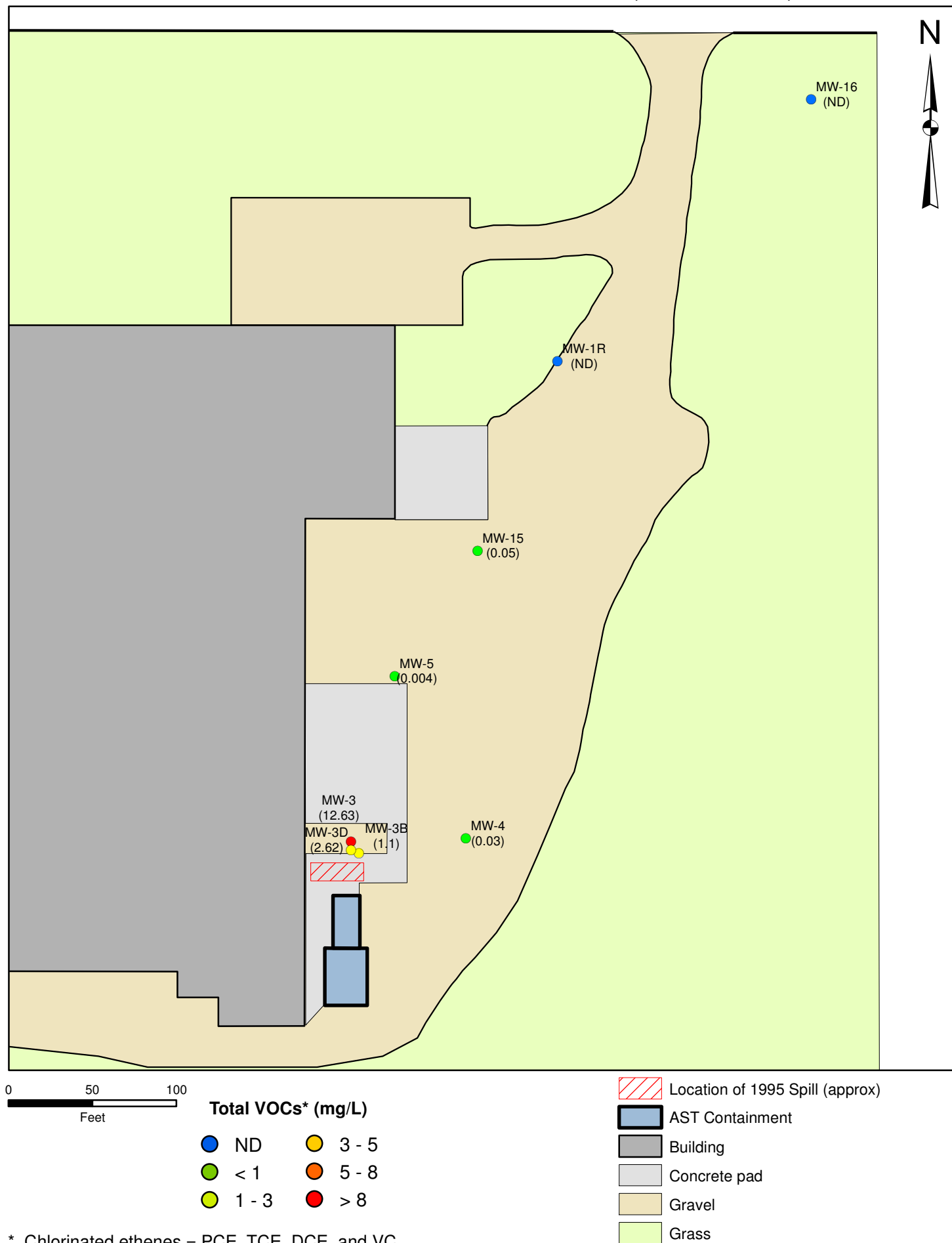


0 25 50 100
Feet

Legend

- New Groundwater Monitoring Wells
- Existing Groundwater Monitoring Wells
- AST containment
- Building
- Concrete pad
- Gravel
- Grass

Capitol Adhesives Groundwater Total Chlorinated Ethenes* (October 2012)



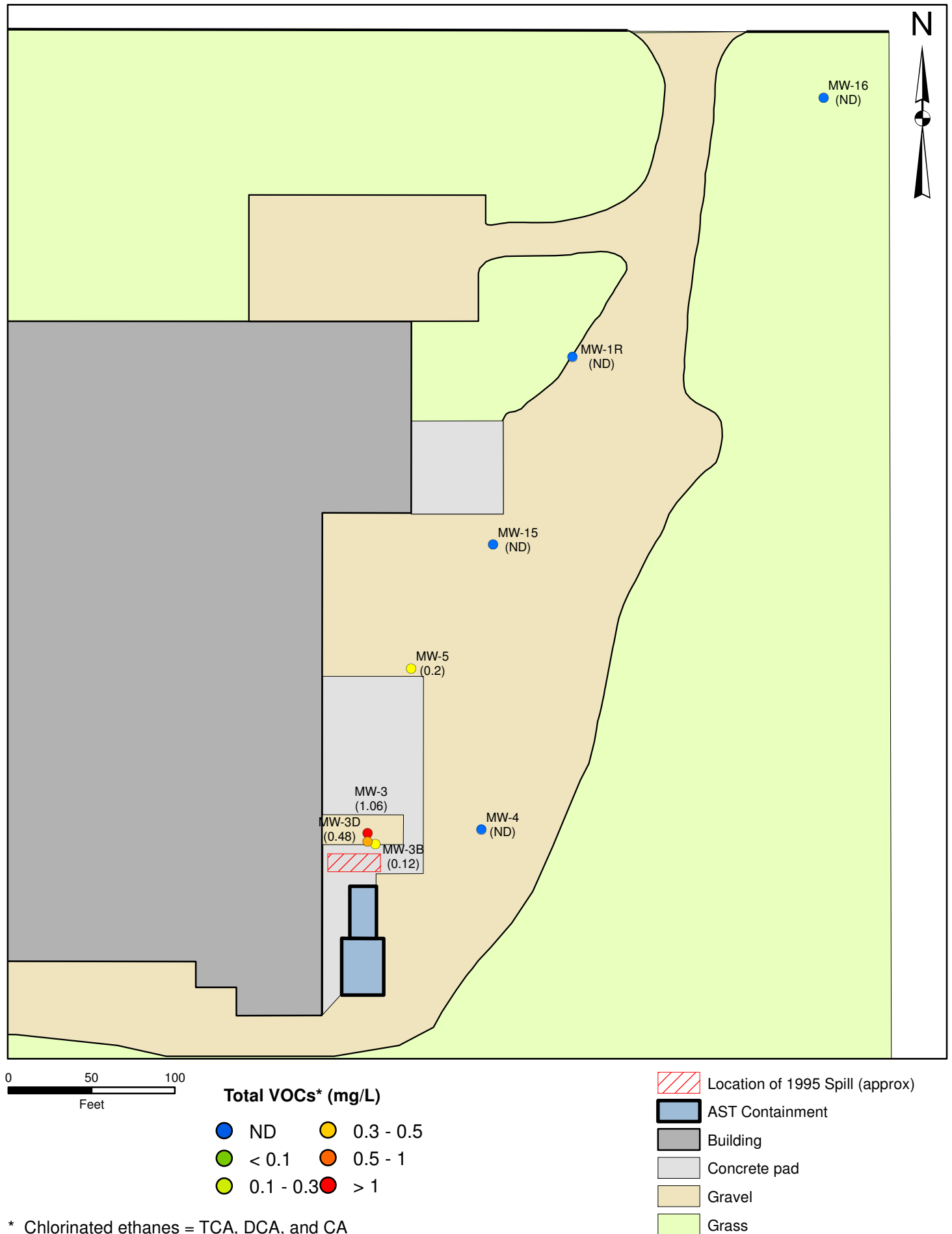
* Chlorinated ethenes = PCE, TCE, DCE, and VC

EPS

G:\River Associates\Capitol Adhesives\VRP Program\Progress Reports\Oct 2012\GIS\Fig3_GWPCE.mxd

Figure No. 3

Capitol Adhesives Groundwater Total Chlorinated Ethanes* (August 2012)



* Chlorinated ethanes = TCA, DCA, and CA

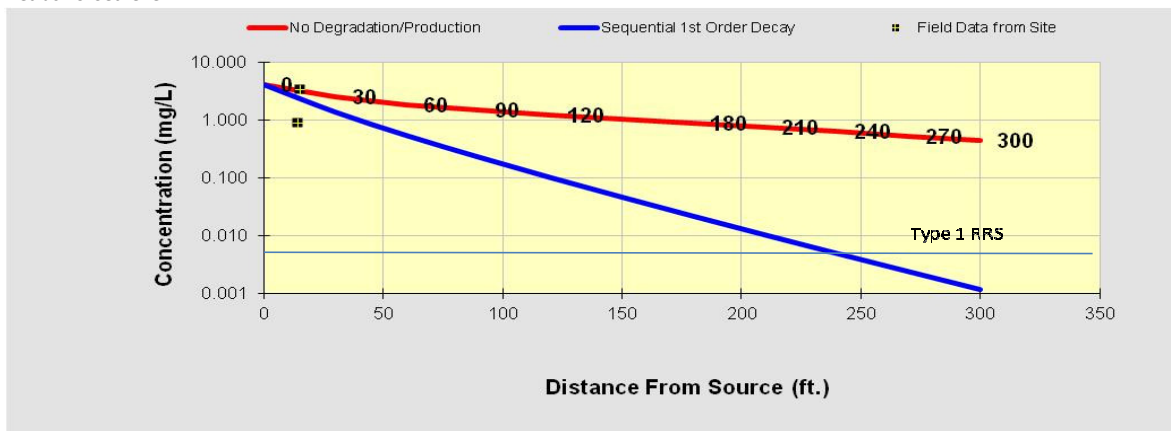
EPS

G:\River Associates\Capitol Adhesives\VRP Program\Progress Reports\Oct 2012\GIS\Fig4_GWTCA.mxd

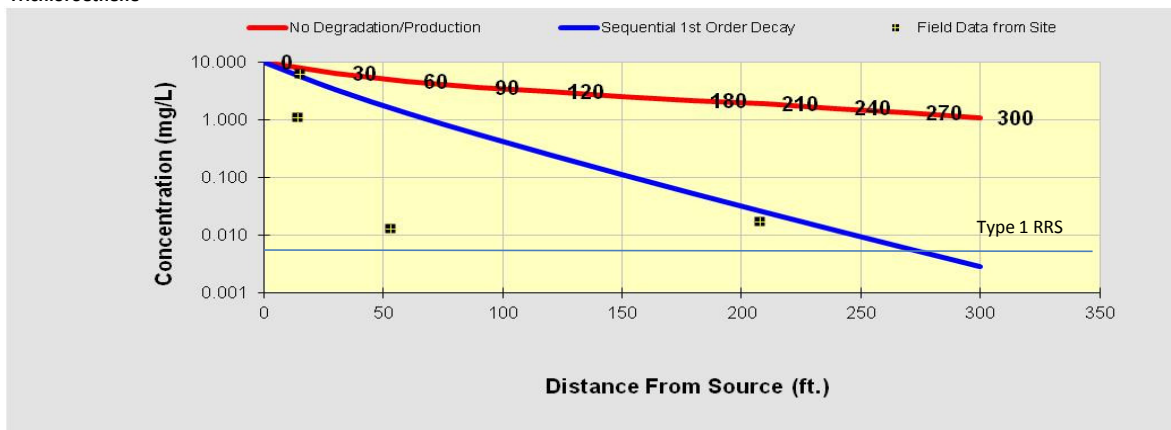
Figure No. 4

Figure 5. Chlorinated Ethene Modeling Results (August 2012)
Modeled Dissolved Chlorinated Ethene Concentrations Along Plume Centerline

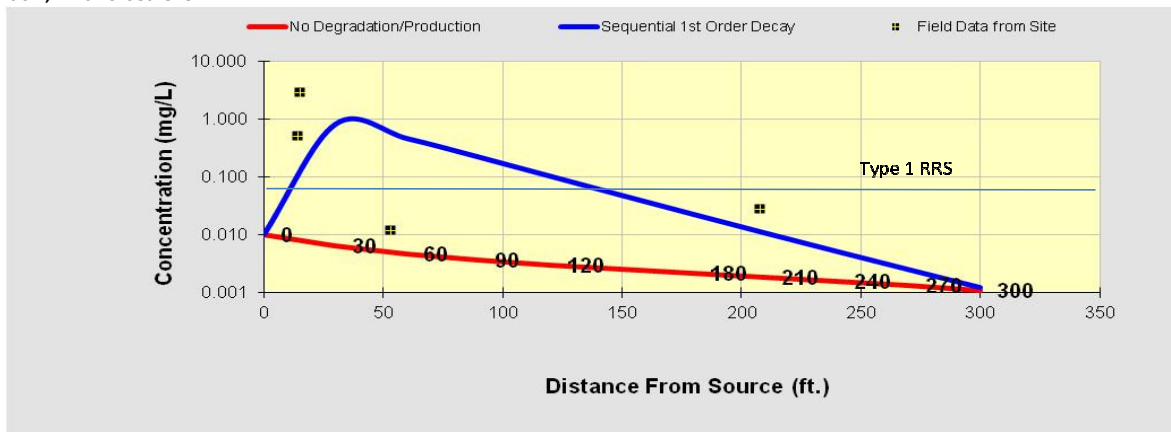
Tetrachloroethene



Trichloroethene



cis-1,2-Dichloroethene



Vinyl chloride

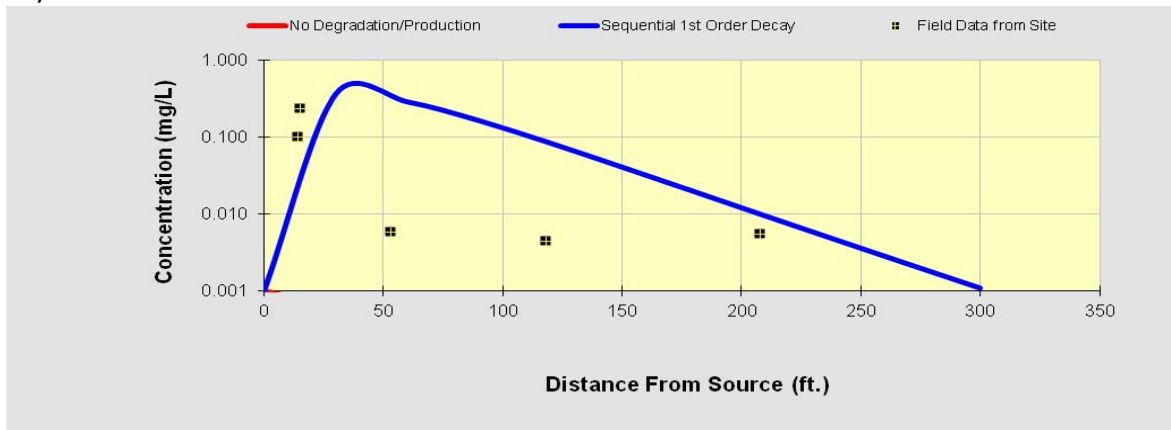
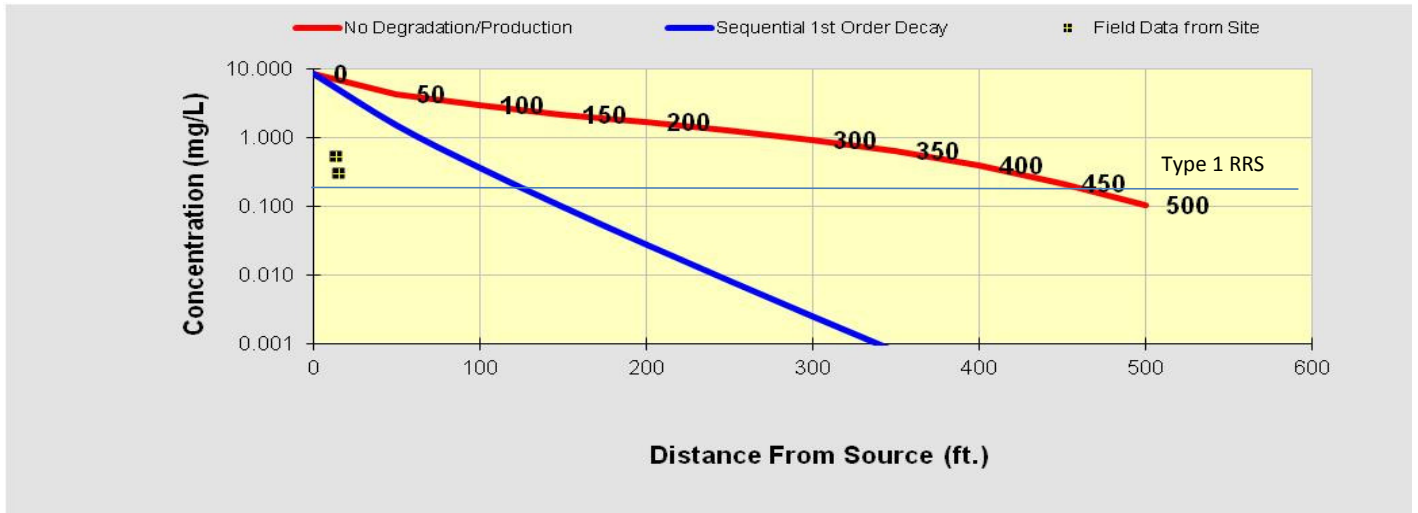
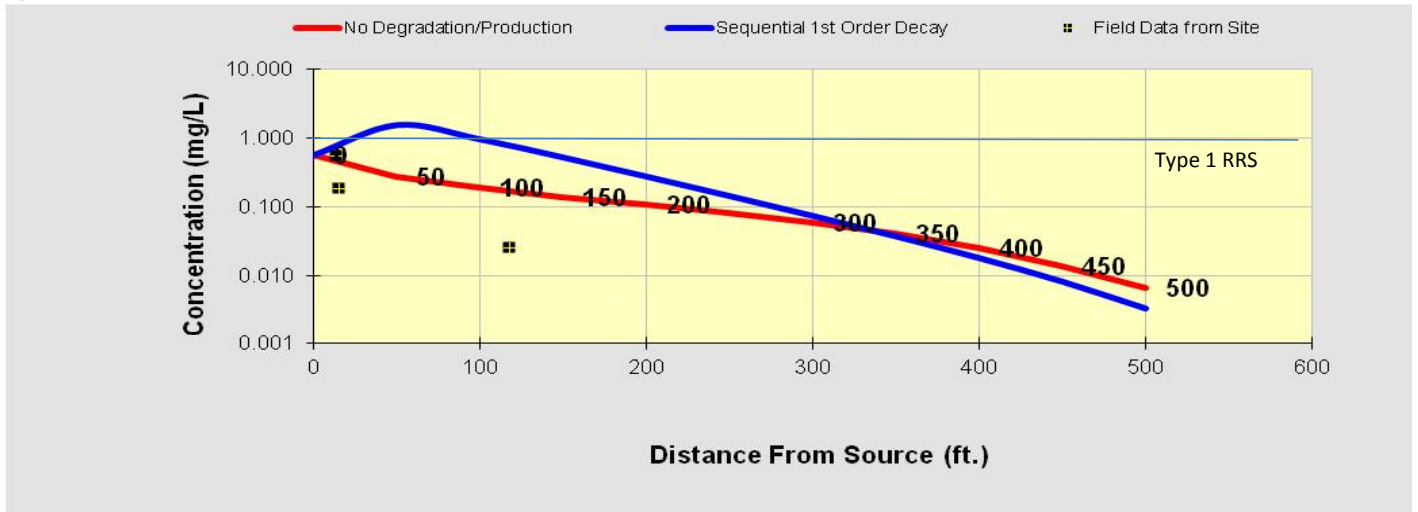


Figure 6. Chlorinated Ethane Modeling Results (August 2012)
Modeled Dissolved Chlorinated Ethane Concentrations Along Plume Centerline

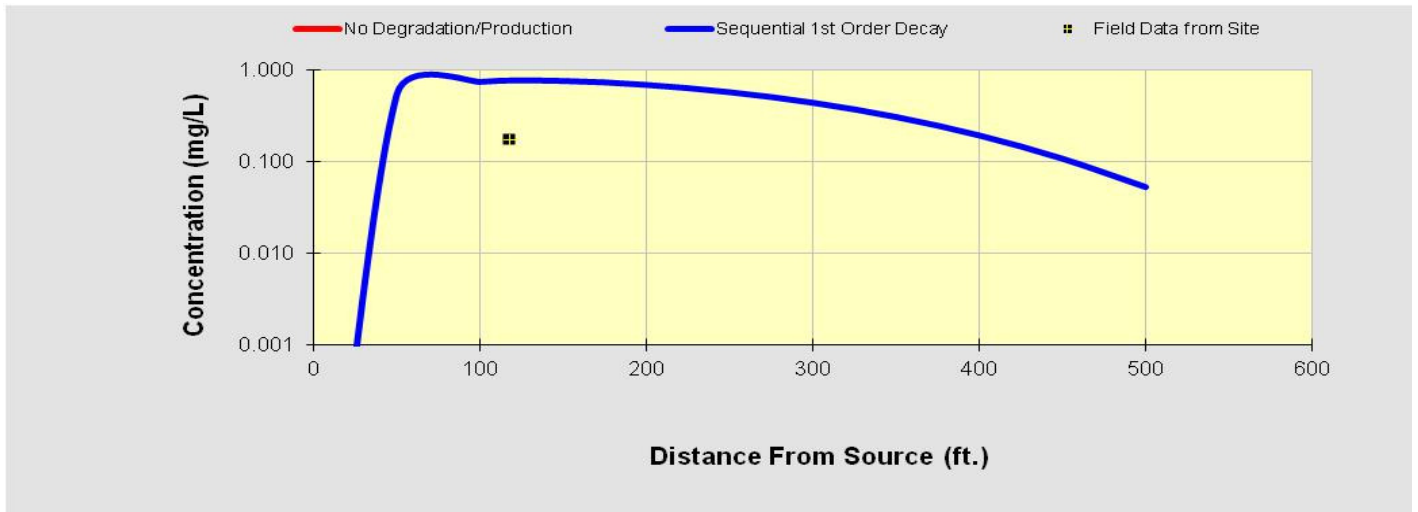
1,1,1-Trichloroethane



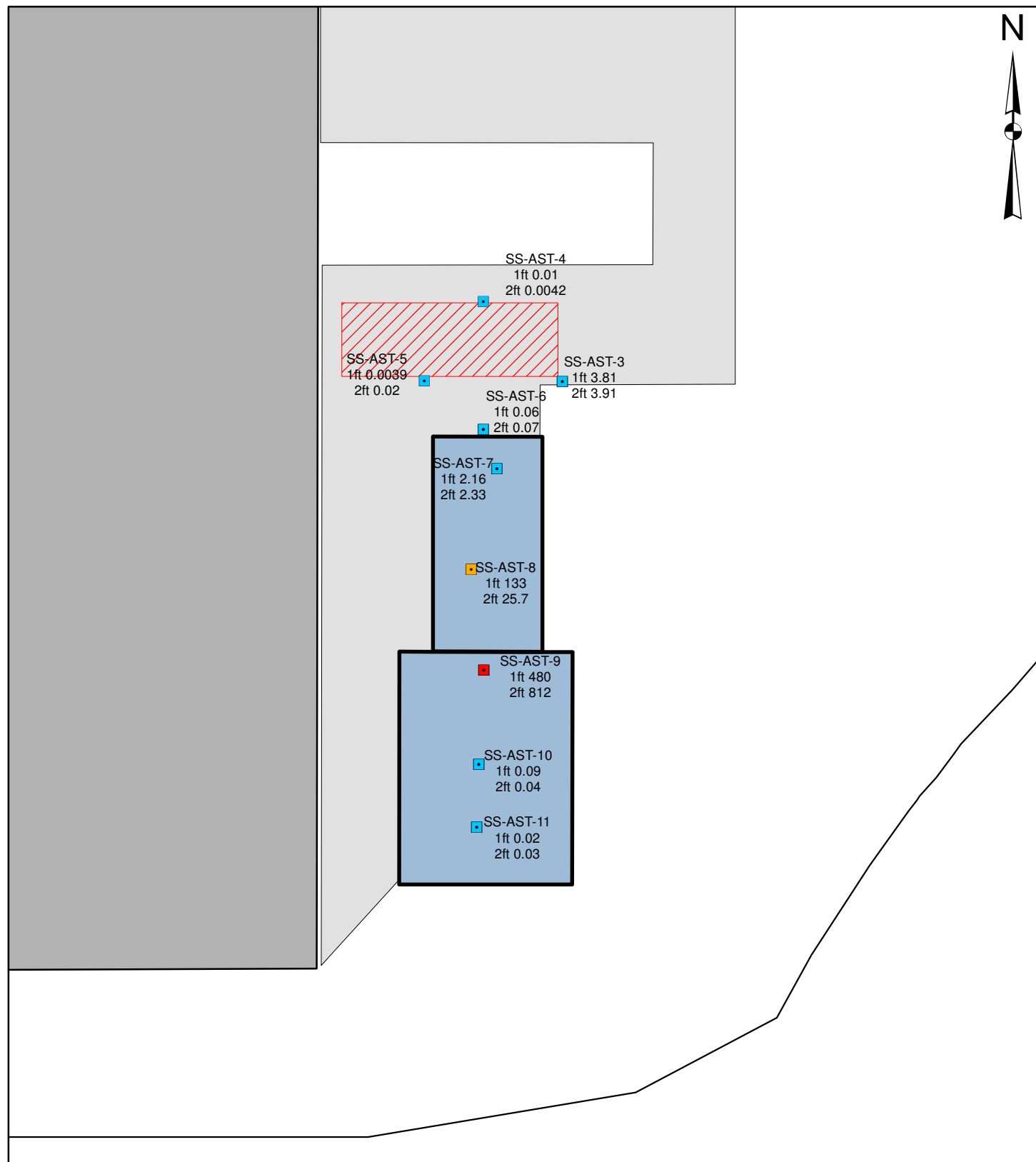
1,1-Dichloroethane



Chloroethane



Capitol Adhesives 2012 AST Solid Matrix Sampling Event - Total Chlorinated Ethenes*



0 10 20
Feet

Total VOCs* (mg/kg)

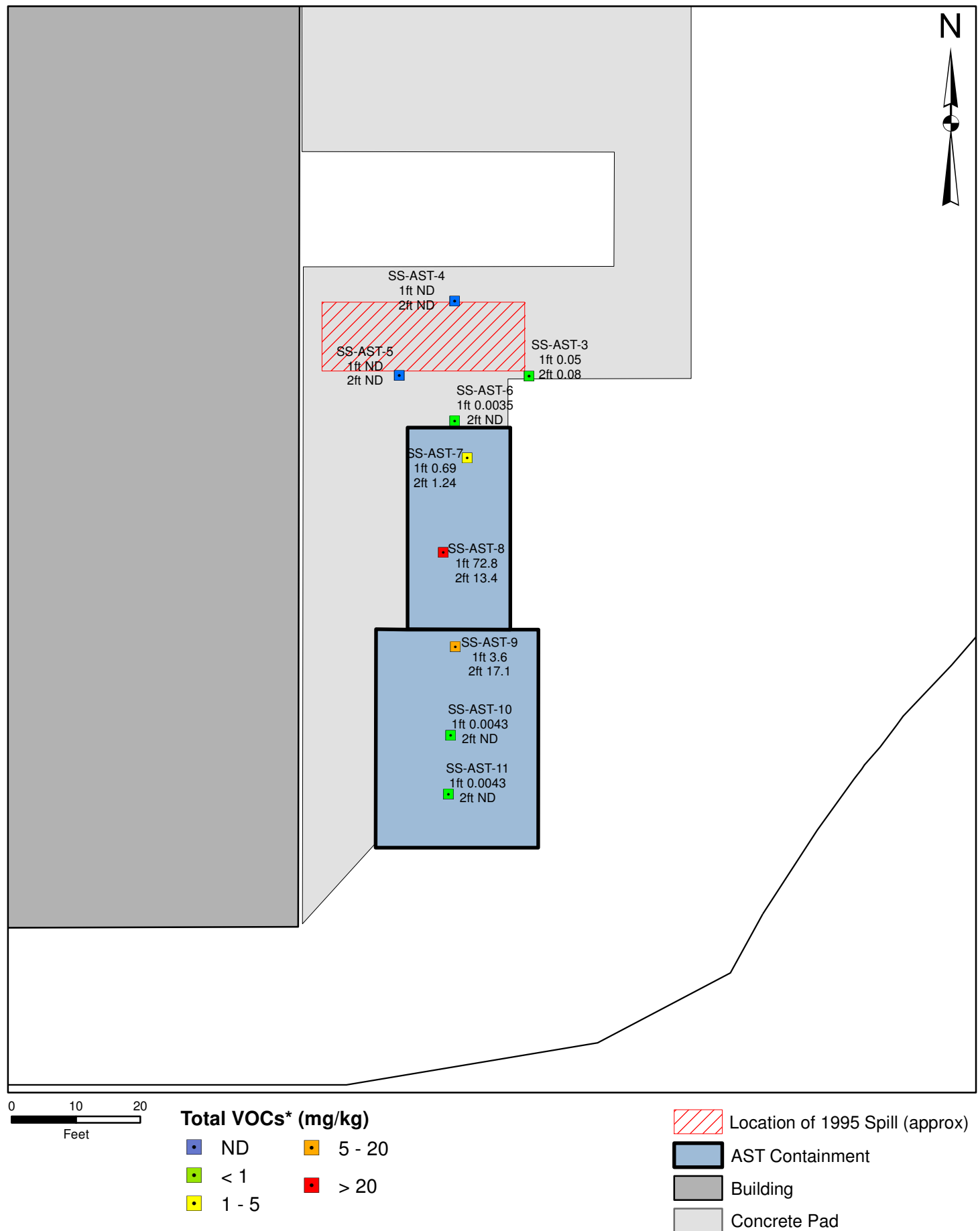
- ND
- < 15
- 15 - 30

- 30 - 75
- 75 - 150
- > 150

- ▨ Location of 1995 Spill (approx)
- AST Containment
- Building
- Concrete Pad

* Where multiple samples were collected, the maximum total VOC value is shown. Chlorinated ethenes = PCE, TCE, DCE, and VC

Capitol Adhesives 2012 AST Solid Matrix Sampling Event - Total Chlorinated Ethanes*



* Where multiple samples were collected, the maximum total VOC value is shown. Chlorinated ethanes = TCA, DCA, CA

APPENDIX A

PROFESSIONAL GEOLOGIST
SUMMARY OF HOURS

9:58 AM
10/03/12

Environmental Planning Specialists, Inc.
Time by Job Summary
April through September 2012

	<u>Apr 12</u>	<u>May 12</u>	<u>Jun 12</u>	<u>Jul 12</u>	<u>Aug 12</u>	<u>Sep 12</u>	<u>TOTAL</u>
River Associates:Dalton Adhesives:Progress Reports P-Principal:P-Document Preparation	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>2.00</u>	<u>2.00</u>
Total River Associates:Dalton Adhesives:Progress Reports	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>2.00</u>	<u>2.00</u>
River Associates:Dalton Adhesives:Project Management P-Principal:P-Planning / Preparation	<u>2.00</u>	<u>1.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3.00</u>
P-Principal:P-Project Management	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.00</u>
Total River Associates:Dalton Adhesives:Project Management	<u>2.00</u>	<u>1.00</u>	<u>0.00</u>	<u>1.00</u>	<u>0.00</u>	<u>0.00</u>	<u>4.00</u>
River Associates:Dalton Adhesives:Source Area Evaluation P-Principal:P-Teleconference	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>2.00</u>	<u>0.00</u>	<u>2.00</u>
Total River Associates:Dalton Adhesives:Source Area Evaluation	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>2.00</u>	<u>0.00</u>	<u>2.00</u>
River Associates:Dalton Adhesives:Well Installation P-Principal:P-Field Work	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>8.00</u>	<u>0.00</u>	<u>8.00</u>
Total River Associates:Dalton Adhesives:Well Installation	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>8.00</u>	<u>0.00</u>	<u>8.00</u>
TOTAL	<u>2.00</u>	<u>1.00</u>	<u>0.00</u>	<u>1.00</u>	<u>10.00</u>	<u>2.00</u>	<u>16.00</u>

APPENDIX B

CONCEPTUAL SITE MODEL

B. CONCEPTUAL SITE MODEL

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B. CONCEPTUAL SITE MODEL

The Conceptual Site Model (CSM) is intended to establish a common knowledge base about the Site and its environmental condition, to facilitate the development of basic remedial action objectives appropriate for the Site, and to allow an informed decision regarding possible remedial action measures for the Site. This section describes the surface and subsurface features at the Site, discusses the fate and transport of chlorinated solvents, and discusses the potential receptors and exposure pathways associated with the Site.

B.1. Elements of the Conceptual Site Model

The figures attached to this section and the Progress Report are plan view and profile diagrams depicting the extent of chlorinated solvents in the subsurface. Viewed in total, these figures give a three-dimensional representation of the site conditions.

B.2. Ground Surface Features

The Site consists of one steel frame building (approximately 100,000 sf) with concrete masonry walls and slab on grade concrete floor with a metal roof. Parking lots are located to the north and east of the building and a hard-packed gravel road/driveway runs along the eastern and southern sides of the building. Ten loading docks are located on the east wall of the facility; here the driving surface is paved in concrete. Several lean-to structures are on the south and west sides of the building. There is limited grassy terrain on the eastern and northern side of the Site. The topography of the Site gently slopes from the south to northeast. A shallow drainage ditch is located around the southern and eastern side of the Site and conveys runoff toward Cross Plains Boulevard. Samples collected from the southern drainage ditch did not contain concentrations of VOCs above HSRA Notification Concentrations (WRS, 2006). A subgrade storm drain system runs from the southeastern side of the building, across the spill area and then north to the ditch along Cross Plains Boulevard. There are no stream features on or adjacent to the Site. A topographic map is provided in Figure B-1 and the Site features are shown on Figure B-2.

B.3. Source of Contamination

In January 1995, a documented release of approximately 585 gallons of reclaimed 1,1,1-trichloroethane (TCA) occurred from a delivery truck due to failure of the tanker sidewall. Figure B-2 depicts the approximate location of the spill¹. Spill response involved containment of the spill area with dikes and product was recovered using a vac truck. Post spill response involved excavation of surface soils at the spill site and off-site disposal². Groundwater samples

¹ The location depicted for the tanker truck spill has been modified from previous depictions in the Corrective Action Plan Addendum (EPS, 2009) due to subsequently-discovered information.

² There is no documentation of the dimensions or specific locations of the soil excavation.

were not collected during the post spill response. An Environmental Investigation (Tri-State, 2004a) in August 2004, identified TCE, PCE, and daughter products in the subsurface and groundwater samples. This spill is the likely source of TCA and the daughter products detected in the groundwater. The spill is also the likely source of PCE/TCE and daughter products detected in the groundwater, as the reclaimed TCA likely contained PCE/TCE.

The ASTs near the tanker spill location are currently being used to store solvents for use in the facility's processes. The secondary containment appears in good condition.

B.4. Subsurface Features

B.4.1. Geological Setting

The Site occurs within the Valley and Ridge Physiographic Province of northwest Georgia. The province is dominated by a northward-trending valleys separated by low, rounded ridges and by high, steep-sided ridges (Cressler, 1974). The stratigraphic units below the Site are within the Conasauga Formation of the middle and late Cambrian system, which is underlain by the Rome Formation. Cressler (1974) describes the Conasauga Formation as follows:

Thickness: 3,000-5,000 feet (maximum thickness unknown)

Lithology: The formation consists of alternating units of shale and limestone that vary in thickness and relative proportion from place to place. In some areas the formation is mainly shale.

The middle unit of the Conasauga Formation is composed of approximately 1,000 feet of light green and yellowish clay shale containing small lenses of blue limestone. Some silty shale is also present, but in smaller quantities than in the lower unit.

A cross section location map is included as Figure B-3, and cross sections are shown on Figures B-4 and B-5. As depicted on these figures, the shallow stratigraphic profile at the Site consists of 4 to 6 feet of fill material placed during construction of the facility, followed by 10 to 15 feet of unconsolidated soil (clayey sand or sandy clay or shaley clay, but predominantly sandy clay) grading to weathered shale approximately to 15 to 30 feet bgs. Competent shale has been observed from 31 to 41 feet bgs and a harder rock (possibly limestone) has been observed below 41 feet bgs.

B.4.2. Hydrogeological Setting

Cressler (1974) describes the hydrologic properties of the Conasauga Formation as follows:

Wells in shale yield up to 5 gpm, or in some locations 17 gpm; and dry wells also occur. Wells in limestone normally supply between 5 and 25 gpm and ones properly located with respect to the drainage will furnish up to 300 gpm. Most wells are less than 300 feet deep, though some extend to a depth of 500 feet. Wells penetrating shale and limestone mixed generally supply from about 2 to 20 gpm, but some yield up to 100 gpm if they are near a source of recharge. The well water varies from soft to hard and has a low to

moderate iron content. Some large springs have openings in the Conasauga, but discharge water from the Knox Group.

The water table at the Site fluctuates on the scale of 5 to 8 ft at a given location, with many locations exhibiting a high water table mark at the ground surface (i.e., artesian conditions). Although the water table intersects the ground surface, the conditions are such that there is no or minimal pooling of water on the ground surface. In the spring of 2011 a weekly groundwater measurement program was implemented for three consecutive weeks to better define the high water table conditions. Depth to groundwater measurements were made at all the existing wells at the Site on three consecutive weekly site visits. The results are presented in Table 1 of the Progress Report along with the results from the February and August 2012 sampling events. This information was combined with the historical groundwater measurements to determine the historical high water table elevations, which can be seen on the cross-sections (Figures B-4 and B-5). The table below shows the high water table mark for the shallow wells. Ten of the shallow wells have exhibited conditions where the groundwater table intersects the ground surface. The only wells that have consistently shown groundwater deeper than two feet below the ground surface are MW-6, MW-11, MW-12 and MW-13. Figure B-6 shows the locations of the wells and their high water table marks. The overall groundwater flow direction is to the northeast (as shown in the VIRP).

Well	High Water Table Mark: Depth Below Ground Surface (ft)
MW-1	0
MW-2	0
MW-3	0
MW-4	0
MW-5	0
MW-6	2.78
MW-7	0
MW-8	0
MW-9	0
MW-10	0.59
MW-11	2.09
MW-12	3.29
MW-13	2.16
MW-14	0
MW-15	0
MW-16	0.67
MW-17	0.72*

* Ground surface elevation unknown, depth below top of casing shown

The topographic map (Figure B-1) is dated 1982, prior to the construction of the facility. This map shows that the facility is located in a low topographic relief (valley) area. This figure (which shows the approximate location of the facility) also shows that an intermittent stream ran through where the southeastern corner of the building now stands. This stream ran in a northeasterly direction across where the Site now exists. This is the same direction as the groundwater flow seen currently at the site. As mentioned previously, there is 4 to 6 feet of fill material that was placed in this low topographic area during construction of the facility. The high water table conditions are explained by this original topographic setting. The valley bottom pitches from the south to the north creating artesian pressure when the water table is high.

Figure B-6 was used to define soil zones on the Site based on the high water table marks. The fully saturated zone is the area where the subsurface is fully saturated due to the water table intersecting the ground surface. The fully saturated zone shown on Figure B-6 was conservatively assumed to be the area between the wells where the groundwater table intersects the ground surface. It is likely that the actual fully saturated zone is larger than this area. In the fully saturated zone there is no vadose zone. The approximate depth of the vadose zone in other areas of the site shown on Figure B-6 are based on the depth to groundwater measurements. It is reasonable to infer that the fully saturated zone is located where the intermittent stream formerly ran.

Hydraulic gradients, hydraulic conductivity and transmissivity calculations³ were presented in the CAP (WRS, 2006). Horizontal hydraulic gradients range from 0.0083 to 0.0125 ft/ft. The hydraulic conductivity ranges from 2.63 to 8.09 ft/day with an average and geometric mean of 5.3 and 4.5 ft/day. The transmissivity ranges from 244.61 to 1,452 gallons per day per foot (gpd/ft). Ranges of groundwater flow velocities were estimated using the modified Darcy equation:

$$V = Ki/n_e$$

where: V = average linear velocity
 K = hydraulic conductivity
 i = hydraulic gradient
 n_e = effective porosity

Groundwater flow velocities were estimated using the average hydraulic conductivity 5.3 ft/day and an estimated effective porosity (n_e) for Site soils of 0.3. Using the range of hydraulic gradients (0.0083 to 0.0125 feet/ft), the range of groundwater flow velocities were calculated to be approximately 53 to 80 ft/year.

B.5. Extent of Contamination

As mentioned previously, three different matrices are of interest at this Site: groundwater, vadose zone soil, and the solid aquifer matrix. The extent of contamination in each of these matrices is discussed in this section.

³ Hydraulic conductivity and transmissivity were determined by slug tests on four monitoring wells using the Bouwer and Rice method.

B.5.1. Groundwater Conditions

Twenty groundwater monitoring wells at the Site have been sampled over time (boring logs and well construction diagrams are presented in Appendix F and Appendix G of the VIRP, respectively) and two new wells were recently installed. Additionally, nine direct push-point water samples were collected in March 2009. A summary of the historical analytical results for constituents detected in the recent sampling event is presented in Table B-1.

Chlorinated ethenes and ethanes are the constituent groups of interest at the Site, associated with the 1995 spill event. TCA, PCE, and TCE have been consistently detected in groundwater above RRSs. These chlorinated solvents can degrade biologically in the subsurface. Through reductive dechlorination, parent compounds (i.e., TCA and PCE/TCE) can be degraded biologically into daughter products. TCA can be degraded into 1,1-dichloroethane (DCA) and then chloroethane (CA). Similarly, PCE can be degraded into TCE, cis-1,2-dichloroethene (DCE) and vinyl chloride (VC). Groundwater concentrations of total chlorinated ethenes (PCE, TCE, DCE and VC) in 2012 are shown in Figure B-7. Similarly, groundwater concentrations of total chlorinated ethanes (TCA, DCA and CA) are shown in Figure B-8. The spatial distribution of constituents in groundwater is consistent with the pattern observed in the subsurface solid matrix with groundwater exhibiting the highest concentrations at the location of the tanker truck spill. The primary direction of the groundwater plumes are to north and northeast of the basin, consistent with the direction of groundwater flow.

The distribution of parent compounds and daughter products demonstrate degradation has occurred over the Site's history, with degradation products having a tendency to exhibit a greater spatial distribution in the downgradient direction compared to the parent compounds. Degradation products also tend to exhibit higher concentrations down gradient from the tanker truck spill area compared to the source area at the tanker truck spill area.

Figures B-9 and B-10 show time series graphs for monitoring well MW-5 (which is in the plume, downgradient from the tanker truck spill area) for the PCE and TCA degradation parameters, respectively. These figures demonstrate that biodegradation is occurring in the plume. The figures clearly show that the peak for the parent compounds (TCE and TCA) appears first followed by the next degradation parameters (DCE and DCA) then the final degradation parameters (VC and CA). (There were only very small concentrations of PCE, likely due to biodegradation occurring prior to reaching MW-5.)

The plume has been characterized and delineated horizontally (see Figures B-7 and B-8) with MW-16 and MW-1R to the north, MW-14 to the east, MW-8 to the south and MW-17 to the west. Three monitoring well clusters are available to evaluate the vertical extent of VOCs (MW-1/MW-1D, MW-2/MW-2D, and MW-3/MW-3D/MW-3B). However, MW-1 and MW-1D have been damaged and are no longer operable. A review of data from the MW-2 and MW-3 well clusters identified VOCs in both the shallow and deeper wells, but both the number of constituents and concentrations are lower in the deepest well of each cluster. Thus, the concentrations of constituents decrease with depth. As there are no wells located deeper than MW-3B, vertical delineation cannot yet be demonstrated.

B.5.2. Solid Aquifer Matrix and Vadose Zone Soil

B.5.2.1. Subsurface Investigations and Matrix Classification

Although the solid aquifer matrix and vadose zone soil will be considered separately in terms of potential corrective action, for ease of presentation and delineation both matrices will be discussed together. Seven subsurface investigations have been completed to date at the Site. A brief summary of the historical investigations is provided below. Solid-matrix samples were collected and analyzed for VOCs during these investigations both from the zone of the water table fluctuation and from beneath the low water table mark, for the purpose of helping to describe/define the groundwater conditions from a perspective of source area(s) that might warrant a different remedial action approach to that for the dissolved-phase plume. A summary of the analytical results is presented in Table B-2 and the sample locations are shown on Figure B-11. Available boring logs are presented in Appendix F of the VIRP.

Figure B-11 also shows the high water table zones. This figure was used to classify each sample collected as either vadose zone soil or being in the solid aquifer matrix by determining whether the sample collected was above or below the estimated high water table mark at that location and depth. Thus, Table B-2 indicates whether each sample is in the solid aquifer matrix or vadose zone soil.

July 2004 Subsurface Investigation. In July 2004, four solid matrix samples were collected during the installation of MW-1D, MW-2D, MW-3 and MW-3D. Sample collection depth ranged from 8 to 15 ft bgs. Chlorinated ethenes, ethanes and a single detection of toluene (at MW-2D) were detected in these solid matrix samples. Note that the high water table mark for these wells is less than 1 ft bgs (with all but MW-3D having a groundwater level at the ground surface), indicating that all of these solid matrix samples were collected from below the high water table mark.

August 2005 Subsurface Investigation. In August 2005, 13 solid matrix samples were collected from direct-push cores to the east of the main facility building (identified as the GP samples in Figure B-11). Samples were collected at depths from 2 to 8 ft bgs. The only sample locations that are in the greater than 2 ft high water table zone are GP007 and GP008. These two samples will be considered as representing the vadose zone while the remaining samples are in the solid aquifer matrix. Consistent with the July 2004 investigation, chlorinated ethenes and ethanes were detected in these samples.

June 2006 Subsurface Investigation. In June and July 2006, nine solid matrix samples were collected during the installation of additional site monitoring wells (MW-8 to MW-16 in Figure B-11). Samples were collected at depths from 5 to 15 ft bgs. The high water table mark for all of these locations is less than 5 feet, thus all of these samples are in the solid aquifer matrix. Only two sample locations exhibited chlorinated ethenes (MW-10 and MW-11) and one location exhibited compounds characteristic of petroleum hydrocarbons or BTEX compounds (MW-15).

MIP Profiling and Associated Core Sampling. Subsurface investigations were performed in October, 2008 to delineate conditions beneath the AST containment basin, beneath the nearby facility structure and areas hydraulically downgradient. These investigations were completed with a combination of both traditional direct-push core sampling and membrane interface probe (MIP) profiling. The MIP profiling, unlike traditional core sampling, yields nearly continuous measurements of total VOCs in the subsurface as it is advanced, providing a more continuous screening-level characterization of the subsurface conditions. Appendix I of the VIRP contains excerpts of the MIP data originally provided in the *Source Area Investigation Report* (EPS, 2008). Interpretation of the MIP profiles indicate that residual VOC product (if present) is entrained in the upper surficial deposits and has not been released in sufficient quantities to remain mobile and transport to deep depths. The MIP profiles also suggest the presence of a dissolved-phase plume.

After completion of the MIP field screening, six core samples were collected at offsets (1 to 2 ft) to the completed MIP borings to quantify VOCs and their respective concentrations (MIP sample series on Figure B-11). Solid media samples were collected to characterize a range of electron capture detector (ECD) responses from the MIP both above and below the measured water table during this point in time. A comparison of the core sample and MIP result are presented in Appendix I of the VIRP. All but two (MIP-6 and MIP-12) of these sample locations fall in the fully saturated zone, and are, therefore, classified as being in the solid aquifer matrix. MIP-6 and MIP-12 fall in the 0-1 ft high water table zone. However, all of the samples collected at these locations were at depths greater than 1 ft bgs. Therefore, these samples are also classified as being in the solid aquifer matrix.

AST and Facility Subsurface Samples. On 12 January 2009, subsurface solid matrix samples (designated as “SS” samples on Figure B-11) were collected from multiple locations beneath the facility foundation slab, from beneath the AST containment basin slab, and one sample adjacent to the subgrade site storm drain. Concrete cores were removed from the facility foundation prior to the collection of direct-push cores. Samples from beneath the AST containment basin were collected by first hand-excavating a trench adjacent to the containment basin wall to allow access under the basin slab with a hand auger. A hand auger was then advanced at an angle horizontally underneath the AST containment basin slab (a few feet to the basin interior from the outer wall) to a depth of 1.5 to 2 ft. Seven of the locations (SS-BLDG-1, SS-BLDG-5, SS-BLDG-6, SS-AST-1, SS-AST-2, SS-HA-1, and SS-HA-2) sampled are within the fully saturated zones, and are thus in the solid aquifer matrix. Two of the locations (SS-BLDG-2 and SS-BLDG-4) are in the 0-1 ft high water table zone. Samples were collected at 1 ft bgs at each of these locations. Thus, these two samples are considered to be at the high water table, and, thus, are being considered vadose zone soil. However, another sample was collected below 1 ft bgs at location SS-BLDG-2 and is, thus, considered to be in the solid aquifer matrix. The remaining sample (SS-BLDG-3) is in the 1-2 ft high water table zone. The sample collected from this location was collected at 1 ft bgs and is, thus, considered a vadose zone soil.

Supplemental Subsurface and Groundwater Samples. On March 10, 2009, 10 subsurface solid matrix samples were collected from the area north of the AST containment basin and at the furthest known extent of the VOC groundwater plume. The highest concentrations were observed in SO-3, which was collected in the truck spill area, just north of the AST containment

area. With the exception of SO-5, all of these sample locations were within the fully saturated zone. Therefore, the samples collected from these locations are considered to be in the solid aquifer matrix. SO-5 is in the 0-1 ft high water table zone; however, the sample collected at this location was at 5 ft bgs and is, thus, also in the solid aquifer matrix. In 2010, three soil samples were collected for estimating the permanganate natural oxidant demand. VOCs were also analyzed from one of these locations (SO-10), which was located next to the AST containment area.

AST Subgrade Investigation 2012. In July 2012, five locations in the AST containment area and four locations north of the AST containment area were sampled. Two samples were collected from each location at 1 and 2-ft bgs. All sample locations were within the fully saturated zone, and thus are classified as solid matrix samples.

B.5.2.2. Extent of Chlorinated Solvents

Figures B-12 and B-13 show the extent of total chlorinated ethenes and ethanes in these solid matrix samples, respectively. Where more than one sample was taken at a location, the highest total result is shown. The spatial distribution of chlorinated ethenes in the solid subsurface matrix exhibits a clear concentration gradient with the highest values occurring adjacent to the tanker truck spill location at the north end of the AST containment and the second highest concentrations toward the center of the AST containment area. The highest concentrations of chlorinated ethanes have been found in the AST containment area. Chlorinated solvent concentrations lessen with distance from the AST containment area. These areas of high concentrations are in the fully saturated zone indicating that it is comprised of the solid aquifer matrix (without any vadose zone soil).

B.5.2.3. Delineation

Delineation is only appropriate for the vadose zone soils. However, because much of the area of interest on the Site does not have vadose zone soils, the solid aquifer matrix is included on the delineation figures to aid in demonstrating delineation for the vadose zone soils. Figures B-12 and B-13 show that the solid matrix has been delineated to background in all directions, except for MW-11 on the west side. The only constituent detected in MW-11 is TCE at a concentration of 0.008 mg/kg, which is below the Type 1 RRS for trichloroethene (0.5 mg/kg). Thus, the solid matrix material has been delineated to the Type 1 RRS in all directions.

B.6. Fate and Transport Summary

B.6.1. Physical Fate and Transport

The primary parent constituents of interest at this Site are TCA, PCE, TCE and their breakdown products. In their product state, TCA, PCE and TCE are dense nonaqueous phase liquids (DNAPLs), which can be classified as either mobile or immobile. In the groundwater, they are found in a dissolved state. Thus, there are three states of interest: mobile DNAPL, immobile DNAPL and dissolved-phase. Following release at the surface, DNAPLs actively spread primarily due to gravity. Vertical migration continues through the vadose zone and aquifer until

the released DNAPL either loses continuity and becomes dispersed into isolated bodies (referred to as ganglia or globules) or reaches a less permeable layer where it either accumulates in a pool or flows semi-laterally along the layer. During downward migration, a globule trail of residual product and sorbed-phase contamination is left. The DNAPLs in this trail are incapable of further migration. Eventually, the entire DNAPL mass becomes immobile as the gravity head is lost.

When the groundwater comes in contact with a DNAPL, an aqueous phase plume is created and slowly fed by the sorbed, residual or pooled DNAPL. A residual-phase DNAPL source offers a large surface contact area (as compared to a pooled DNAPL) for contact with the groundwater, which results in a higher flux from the DNAPL state to the dissolved phase. This in turn results in an accelerated rate of DNAPL depletion. Once in the dissolved-phase, the solvents are transported in the water primarily along in the direction of the groundwater flow, but also horizontally (cross- or up-gradient) due to dispersion and diffusion. The aqueous phase plumes become elongated in the hydraulically down-gradient direction and are subject to attenuation process such as dispersion, sorption, matrix diffusion and biodegradation (discussed in the next section). All aqueous plumes will eventually reach a steady-state condition where the leading edge and side edges no longer expand. For this Site, the predominant groundwater flow is laterally downgradient (to the northeast). Additionally, the rapid rise and fall of the water table gives evidence that the groundwater provides for transport of dissolved phase chlorinated solvents to the ground surface (upward migration) through artesian flow and very shallow water table conditions. The water table fluctuation brings dissolved phase contaminants into contact with the solid matrix, resulting in the contaminant becoming entrained and sorbed in the solid matrix. Thus, the fluctuating groundwater table is another transport mechanism occurring at the Site. The groundwater could carry the solvents both horizontally and upwards toward the surface. This creates another potential exposure pathway (exposure to groundwater at the ground surface) that will be evaluated.

PCE has been measured as high as 3.9 mg/L at MW-3, which is next to the location of the spill. This concentration represents approximately 3.2% of the aqueous solubility. According to Cherry and Feenstra (1991), concentrations exceeding 1% of the compound's aqueous solubility indicates the possible presence of DNAPL. Thus, there may be a continuing flushing of PCE from the aquifer matrix near the spill site. An evaluation of the site conditions indicates that at this Site any DNAPLs have remained as a residual smearing in the upper portions of the subsurface and are not present as mobile "pools" of NAPL.

Data collected from groundwater and solid matrix samples at the Site support the lateral movement of dissolved-phase solvents by groundwater. Concentrations in the shallow solid matrix samples outside the vicinity of the AST containment area are attributable to the migration of the contaminants in the shallow fluctuating groundwater. The analytical results of the downgradient wells indicate that the plume has migrated to the northeast (in the direction of groundwater flow). The dissolved plume has been delineated in the downgradient direction and has not migrated off the Site.

B.6.2. Biological Degradation

Chlorinated solvents can also degrade biologically in the subsurface through reductive dechlorination. As mentioned previously, parent compounds (i.e., TCA and PCE) can be degraded biologically into daughter products (DCA, CA, TCE, DCE and VC). Four lines of evidence are presented in this section to demonstrate that reductive dechlorination is occurring.

B.6.2.1. Daughter Products and Time Series Graphs

The presence of the daughter products at the Site indicates that biological degradation is occurring. Additionally, time series figures (Figures B-9 and B-10) show the decrease of parent products and subsequent increase in daughter products over time.

B.6.2.2. MNA Parameters and Screening Method

Other parameters can also be used to indicate that biodegradation is occurring. During the October 2010 sampling event, additional analyses were conducted to provide evidence as to whether or not reductive dechlorination is occurring at the Site. Monitored Natural Attenuation (MNA) parameters were analyzed in samples collected from MW-3, MW-3D, MW-4, MW-5 and MW-8. The following parameters were analyzed by AES for each of these wells: alkalinity, sulfide, methane/ethane/ethene, chloride, ferrous iron, nitrate, nitrite, sulfate, and total organic carbon. These laboratory data sheets are presented in Appendix H of the VIRP. Parameters measured in the field during sample collection included: dissolved oxygen, temperature, pH and Redox potential. As a part of the microbial testing conducted by Microbe Inotech Laboratories, certain MNA parameters (pH, iron, ammonia, nitrite, nitrate, orthophosphate, sulfate and total organic carbon) were also analyzed for MW-3, MW-3D, MW-4 and MW-5.

As part of the process for determining whether anaerobic biodegradation is occurring, the Environmental Protection Agency (EPA) guidance document “*Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater*” (EPA, 1998) includes a scoring process using indicator parameters. Table B-3 shows the results of this screening at the Site using data collected during the October 2010 sampling event. Results are shown for the primary wells within the plume (MW-3/3D, MW-4, and MW-5), two side-gradient wells (MW-12 and MW-14), and an upgradient well (MW-8) and downgradient well (MW-16). Based on the October 2010 results, the wells within the plume show strong evidence that reductive dechlorination is occurring, while the wells up-, side- or down-gradient of the plume show limited or inadequate evidence that reductive dechlorination is occurring, which is not unexpected since there are low to non-detectable concentrations of chlorinated solvents in these wells. Results of MNA testing from the February 2012 sampling event continue to show that reductive dechlorination is occurring (see Table 4 of the First Semiannual Progress Report).

B.6.2.3. Microbial Testing

Tables B-4 and B-5 show the results of microbial testing at two different laboratories. Microbe Inotech Laboratories performed the first type of testing, which was based on doing anaerobic (Table B-4) and aerobic (Table B-5) cultures using plate counting techniques. The laboratory data report can be found in Appendix H of the VIRP. The first column shows the density (number of colony forming units per mL) of anaerobic or aerobic organisms from each well.

The next several columns show the percent of different strains of organisms that were seen in the culture from each well. After identification of the strains, an endpoint assay was conducted on each strain. The strains were individually cultured with either TCA or TCE as the carbon source. The endpoint assay results (shown at the bottom of each table) show that the microorganisms present in MW-3D and MW-5 grow very well on TCA and TCE. Interestingly, the aerobic assay shows that the microorganisms in MW-5 also grow very well on TCA or TCE. This indicates the potential for multiple types of mechanisms to occur at the Site. This testing shows that degradation of TCA and TCE is favorable in MW-5 and to a lesser extent in MW-3D. One drawback of the plate counting technique is that it does not account for viable (live) cells and cultivation techniques can underestimate the total population.

Microbial Insights performed the second microbial testing technique, which is called CENSUS. The laboratory data report is presented in Appendix H of the VIRP. DNA is extracted from the groundwater samples and quantitative real-time polymerase chain reaction analysis is used to detect and quantify specific targets of interest (e.g., a specific microbial species). Samples from MW-3 and MW-5 were analyzed for *Dehalococcoides spp* and *Dehalobacter spp*, both of which are common dechlorinating bacteria. *Dehalococcoides spp* is the only known group of bacteria capable of completely degrading PCE to ethene. *Dehalobacter spp* is capable of dechlorinating PCE to cis-DCE and TCA to chloroethane. Thus, the presence of these species indicates that reductive dechlorination of PCE/TCE and TCA is favorable and likely occurring. The functional genes for *Dehalococcoides spp* were also analyzed to determine if the genes are present that are necessary for the different steps in the dechlorination chain. *tceA* reductase is the gene responsible for reducing TCE to DCE. Vinyl chloride reductase is the gene responsible for reducing vinyl chloride to ethene in multiple strains. Similarly, *bvcA* reductase is the gene responsible for vinyl chloride reducing to ethene, but only for a specific strain (BAV1) of *Dehalococcoides spp*. The absence of VC reductase and *bvcA* reductase would indicate that vinyl chloride would accumulate instead of further degrading to ethene. The results (Table B-4) show that these organisms and genes are present in both wells, but are significantly higher in MW-5. This indicates that the conditions are favorable and most likely occurring for reductive dechlorination of PCE to ethene and TCA to chloroethane in both of these wells, but is much more likely in MW-5.

Based on these results, conditions are favorable at the Site for reductive dechlorination, especially in the direction of MW-3 to MW-5.

B6.2.4. Modeling

Computer modeling using BIOCHLOR (see Appendix J of the VIRP) provides further evidence that reductive dechlorination is occurring. BIOCHLOR is a computer model that simulates natural attenuation of dissolved chlorinated solvents. In an effort to conservatively model site conditions, the model was calibrated using the empirical data collected from 2004 through 2007, prior to the EHC[®] injections. Therefore, the model assumes that there is no impact from the injections. Model simulations were conducted through 2030 to determine estimated concentrations at different wells throughout and beyond the plume. Please refer to Appendix J of the VIRP for more information. Results from the August 2012 sampling event are compared to the 2012 model results in Figures 5 and 6 of the Progress Report.

B.7. Potential Receptors and Exposure Pathways

B.7.1. Setting

The Site includes a single-story manufacturing building, parking lots located to the east and north of the building, loading docks on the east side of the building, a gravel driveway to the east and south of the building and small grassy areas on the eastern and northern portions of the Site.

The adjoining properties are used for commercial purposes or are currently vacant. Properties immediately adjacent to the Site include the Parish Towing Company to the north, the Anderson Company to the east and vacant wooded properties to the South and West. The area surrounding the Site is zoned for heavy manufacturing, with some general agricultural zoned areas beyond the manufacturing zoning.

B.7.2. Human Health

The nearest residence is greater than 2000 feet northwest of the Site. The Site and surrounding area are serviced by public drinking water system provided by Dalton Utilities. According to a representative at Dalton Utilities, all of Whitfield County is served by the utility. The closest drinking water well is located 1.125 miles from the Site. In addition, as described in the Release Notification (Tri-State, 2004b): a) groundwater flow at the Site is to the northeast and this well is to the north-northwest, b) the Site and the well are approximately at the same elevation resulting in no head difference to drive groundwater toward the well, c) based on surface water drainages the Site and the well are cross-gradient, and d) there are multiple groundwater divides between the Site and the well that would prevent groundwater migration from the Site to the well. Thus, the well is not directly downgradient of the Site and the well is located in an area where public water is available. As the Site and surrounding areas are on public water, ingestion of groundwater is not a complete exposure pathway.

The other potential exposure pathways include exposure to vadose zone soil, source material in the solid aquifer matrix, dermal contact with groundwater and vapor intrusion. The potential human receptors include an industrial worker and construction/utility worker.

B.7.2.1. Industrial Worker

As the area impacted by the release is mostly covered by concrete and/or gravel, exposure to vadose zone soil or potential source material in the solid aquifer matrix is not a complete exposure pathway for the industrial worker. However, due to the shallow depth of groundwater, potential exposure of workers to groundwater at the surface will be evaluated under the VRP program for this Site; however, there is no or minimal pooling of water at the ground surface.

Some chlorinated compounds have been detected in wells inside the manufacturing building. Thus, there is a potential for a vapor intrusion pathway. The EPD has requested that vapor intrusion modeling be conducted for the Site. However, as discussed in Section 6.1 of the First Semiannual Progress Report, the evaluation of vapor intrusion is inappropriate for this Site as OSHA regulations take precedence for the protection of worker safety.

B.7.2.2. Construction and Utility Workers

The current and/or potential future human receptors are Construction and Utility Workers. No construction or utility activities are currently planned at the Site; however, it is possible that additional buildings could be constructed on the Site in the future. Construction or utility works may be exposed by physical contact with contaminated groundwater, vadose zone soils and/or the solid aquifer matrix. The potential risk to Construction or Utility Workers in physical contact with groundwater, vadose zone soils and/or source material in the solid aquifer matrix at the Site will be evaluated as a part of the VRP program.

B.7.3. Ecological

The area impacted by the release is mostly covered by concrete and/or gravel. There is continual traffic over this area and unloading operations. The area does not represent quality habitat as it lacks natural vegetative cover, structure, and diversity and is unlikely to ever have substantial vegetative cover due to ongoing maintenance activities. Disturbances from vehicles and facility operations have and will continue to disturb wildlife and cause animals to seek less frequently disturbed areas off the Site.

TABLES

Capitol Adhesives
Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)

Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloroe thane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethaness	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2- Dichloro ethane	Acetone	Benzene	Chloroform	Cyclo hexane	Dichloro methane (Methylene chloride)	Freon-11	Freon-113	Methyl cyclo hexane	o-Xylene	Toluene	trans-1,2- Dichloroet hene
Type 1 RRS or DL		0.005	0.005	0.07	0.002		0.2	4	DL		0.005	0.007	0.005	4	0.005	0.08	DL	0.005	2	1000	DL	10	1	0.1
DPGW-1	3/10/09	0.24	0.25	0.058	0.016	0.564	0.08	0.038	<0.01	0.118	<0.005	0.077	0.04	<0.05	<0.005	0.061	<0.005	0.063	<0.005	<0.01	0.0055	<0.005	<0.005	0.0072
DPGW-2	3/10/09	0.0085	0.044	0.97	1.3	2.3225	0.03	0.24	0.61	0.88	<0.005	0.22	0.33	1.8	<0.005	0.029	<0.005	0.077	<0.005	0.064	<0.005	<0.005	<0.005	0.085
DPGW-3	3/10/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
DPGW-4	3/10/09	<0.005	0.0074	<0.005	<0.002	0.0074	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
DPGW-5	3/10/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
DPGW-6	3/10/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
DPGW-7	3/10/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
DPGW-8	3/10/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-1R	8/23/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2	7/15/04	0.0424	0.0089	ND	ND	0.0513	0.0039	ND	ND	0.0039	<0.005	ND	ND	<0.1	ND	ND		ND	ND				ND	ND
MW-2	8/10/05	0.19	0.057	0.0082	0.003	0.2582	0.0017	0.017	<0.001	0.0187	<0.001	0.004	<0.001	<0.1	<0.001	<0.001		<0.001	<0.001				<0.001	<0.001
MW-2	6/28/06	0.065	0.01	<0.005	<0.002	0.075	<0.005	0.004 J	<0.005	0.004	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-2	3/7/07	<0.005	<0.005	0.02	<0.002	0.02	<0.005	<0.005	<0.005	ND	<0.005	<0.005	<0.005	4.23	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-2	6/25/07	<0.005	<0.005	0.004 J	0.061	0.065	<0.005	<0.005	<0.005	ND	<0.005	<0.005	<0.005	0.934	<0.005	<0.005		<0.005	<0.005				0.005	<0.005
MW-2	9/13/07	ND	ND	ND	0.022	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				0.005	ND
MW-2	4/8/08	ND	ND	ND	0.008	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				1.09	ND
MW-2	10/14/08	0.083	0.061	0.034	0.17	0.348	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	0.71	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	0.41	<0.005
MW-2	6/22/09	<0.005	<0.005	<0.005	0.0037	0.0037	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	0.11	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2	10/8/10	0.069	0.096	0.033	0.0075	0.2055	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2	2/8/12	<0.005	<0.005	0.0061	0.0025	0.0086	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	0.38	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2D	7/19/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.1	ND	ND		ND	ND				0.0041	ND
MW-2D	8/10/05	0.0037	0.018	<0.001	<0.001	0.0217	0.0024	<0.001	<0.001	0.0024	<0.001	<0.001	<0.001	<0.1	<0.001	<0.001		<0.001	<0.001				<0.001	<0.001
MW-2D	6/28/06	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.005	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-2D	3/7/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	0.138	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-2D	6/25/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-2D	9/13/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-2D	10/14/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2D	6/22/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	17	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2D	10/8/10	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-2D	2/8/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	0.071	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-3	7/15/04	1.86	6.15	0.123	0.0204	8.1534	3.26	0.725	ND	3.985	0.0217	2.19	0.86	<0.1	0.0073	1.2		0.435	ND				0.0038	0.116
MW-3	8/10/05	2.6	5.2	0.14	<0.005	7.94	2.6	0.41	<0.005	3.01	<0.005	1.7	0.45	<0.1	<0.05	0.64		0.45	<0.05				<0.005	0.093
MW-3	6/26/06	2.92	4.71	0.197	0.004	7.831	1.85	0.349	<0.005	2.199	0.016	1.67	0.495	<0.1	<0.005	0.643		0.494	0.01				<0.005	0.1
MW-3	3/7/07	2.9	5.83	0.378	0.002	9.11	2.27	0.352	<0.01	2.622	0.018	1.99	1.15	<0.1	0.006	1.06		0.438	0.014				<0.005	0.104
MW-3	6/25/07	2.62	5.53	0.59	0.005	8.745	1.72	0.433	<0.01	2.153	0.024	3.06	0.771	<0.1	0.008	1.14		0.725	0.019				<0.005	0.185
MW-3	9/14/07	2.88	5.87	0.58	0.003	9.333	1.43	0.38	ND	1.81	0.023	2.55	0.781	ND	0.007	0.964		0.183	ND				ND	0.139
MW-3	4/9/08	2.41	4.1	0.636	0.011	7.157	0.7590001	0.333	ND	1.0920001	0.021	1.78	0.781	ND	0.006	0.758		0.172	ND				ND	0.113
MW-3	10/16/08	3.9	5.9	1.1	0.032	10.93	0.9300001	0.46	<0.01	1.39	0.021	3.1	0.7600001	<0.05	0.0074	1.1	0.014	0.024	0.02	0.49	0.0089	<0.005	<0.005	0.099
MW-3	6/23/09	3.2	4.6	0.84	0.05	8.69	0.79	0.31	<0.01	1.1	0.021	2.4	0.77	<0.05	<0.005	0.99	<0.005	0.066	0.01	0.31	0.0064	<0.005	<0.005	0.14
MW-3	10/7/10	3	4.5	1	0.11	8.61	0.59	0.31	<0.01	0.9	0.023	1.7	0.74	<0.05	0.0068	0.88	0.012	0.041	0.0057	0.22	0.0078	<0.005	<0.005	0.12
MW-3	2/9/12	3 E	4.2 E	1.9 E	0.24 E	9.34	0.59 E	0.49 E	<0.01	1.08	0.024	2.6 E	1 E	<0.05	0.0076	1.1 E	0.024	0.066	0.0096	0.24 E	0.012	<0.005	0.0052	0.17
MW-3	8/24/12	3.4	6.1	2.9	0.23	12.63	0.52	0.54	<0.01	1.06	0.047	3	1.3	<0.05	0.013	1.8	<0.005	0.045	<0.005	<0.01	6.80E-03	0.0052	0.0072	0.18
MW-3D	7/19/04	3.32	4.72	0.0404	0.0036	8.084	5.4	0.868	0.0022	6.2702	0.0071	0.628	0.128	<0.1	0.0042	0.206		0.038	0.0094				0.0829	0.0523
MW-3D	8/10/05	1.4	1.6	0.032	<0.02	3.032	2.1	0.16	<0.02	2.26	<0.02	0.29	0.067	<0.1	<0.02	0.094		<0.02	<0.02				<0.02	<0.02
MW-3D	6/26/06	1.21	1.25	0.034	0.004	2.498	1.15	0.126	<0.005	1.276	<0.005	0.244	0.068	<0.1	<0.005	0.082		<0.005	<0.005				<0.005	0.017
MW-3D	3/7/07	0.94	1.22	0.04	0.002	2.20	1.74	0.122	<0.01	1.862	<0.005	0.19	0.103	<0.1	<0.005	0.09		<0.005	<0.005				<0.005	0.012
MW-3D	6/26/07	0.694	1.04	0.09900001	0.006	1.84	1.16	0.151	<0.01	1.311	<0.005	0.256	0.06500001	<0.1	<0.005	0.095		<0.005	<0.005				<0.005	0.02
MW-3D	9/14/07	0.675	0.9390001	0.304	0.005	1.92	1.12	0.161																

Capitol Adhesives

Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)

Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloroe thane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethaness	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2- Dichloro ethane	Acetone	Benzene	Chloroform	Cyclo hexane	Dichloro methane (Methylene chloride)	Freon-11	Freon-113	Methyl cyclo hexane	o-Xylene	Toluene	trans-1,2- Dichloroet hene
Type 1 RRS or DL		0.005	0.005	0.07	0.002		0.2	4	DL		0.005	0.007	0.005	4	0.005	0.08	DL	0.005	2	1000	DL	10	1	0.1
MW-4	8/10/05	0.064	0.52	<0.005	<0.005	0.584	0.028	<0.005	<0.005	0.028	<0.005	0.0078	<0.005	<0.1	<0.005	0.0056		<0.005	<0.005				<0.005	<0.005
MW-4	6/27/06	0.157	0.615	<0.005	<0.002	0.772	0.024	<0.005	<0.005	0.024	<0.005	0.017	<0.005	<0.1	<0.005	0.005		<0.005	<0.005				<0.005	<0.005
MW-4	3/7/07	0.049	0.138	0.139	<0.002	0.326	<0.005	<0.005	<0.01	ND	<0.005	0.006	<0.005	6.3	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-4	6/25/07	<0.005	<0.005	0.832	0.003	0.835	<0.005	0.008	<0.01	0.008	<0.005	0.016	<0.005	2.74	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-4	9/14/07	ND	0.005	0.846	0.055	0.906	ND	0.014	ND	0.014	ND	0.034	0.009	ND	ND	ND		ND	ND				ND	ND
MW-4	4/8/08	0.01	0.018	0.244	0.022	0.294	ND	ND	ND	ND	ND	0.006	ND	ND	ND	ND		ND	ND				ND	ND
MW-4	10/15/08	0.013	0.034	0.7600001	0.3	1.11	<0.005	0.011	<0.01	0.011	<0.005	0.022	0.0069	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-4	6/23/09	0.03	0.064	0.12	0.12	0.334	<0.005	<0.005	<0.01	ND	<0.005	0.0054	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-4	10/12/10	0.019	0.086	0.057	0.059	0.221	<0.005	0.0062	<0.01	0.0062	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-4	2/8/12	0.017	0.041	0.033	0.011	0.102	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-4	8/23/12	<0.005	0.013	0.012	0.0058	0.0308	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-5	8/10/05	0.016	0.56	0.093	<0.005	0.669	0.44	0.34	<0.005	0.78	0.0082	0.85	0.32	<0.01	<0.005	0.34		<0.005	<0.005				<0.005	0.051
MW-5	6/27/06	0.077	1.37	0.141	0.008	1.596	0.511	0.485	<0.005	0.996	0.012	1.3	0.388	<0.01	0.005	0.361		<0.005	<0.005				<0.005	0.086
MW-5	3/6/07	0.085	1.07	1	0.004	2.159	<0.005	0.58	<0.01	0.58	0.012	1.87	0.781	<0.01	0.005	0.527		<0.005	<0.005				<0.005	0.084
MW-5	6/25/07	0.015	0.325	2.32	0.007	2.667	0.309	0.483	<0.01	0.792	0.011	1.5	0.355	<0.01	0.006	0.332		<0.005	<0.005				<0.005	0.11
MW-5	9/13/07	ND	0.066	2.78	0.005	2.851	0.232	0.587	ND	0.819	0.011	1.72	0.502	ND	0.005	0.252		0.009	ND				ND	0.097
MW-5	4/8/08	0.008	0.079	2.69	0.9310001	3.708	0.043	0.182	0.358	0.583	ND	0.84	0.495	ND	0.005	0.252		0.048	ND				ND	0.076
MW-5	10/15/08	0.011	0.05	0.28	0.41	0.751	0.037	0.15	0.56	0.747	<0.005	0.19	0.34	0.53	0.006	0.039	<0.005	0.05	<0.005	0.07600001	<0.005	<0.005	<0.005	0.1
MW-5	6/22/09	<0.005	<0.005	<0.005	0.026	0.026	<0.005	0.017	0.25	0.267	<0.005	<0.005	0.085	0.48	<0.005	<0.005	<0.005	0.028	<0.005	<0.01	<0.005	<0.005	<0.005	0.041
MW-5	10/7/10	<0.005	<0.005	<0.005	0.011	0.011	<0.005	0.0051	0.24	0.2451	<0.005	<0.005	0.016	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	0.018
MW-5	2/9/12	<0.005	<0.005	<0.005	0.011	0.011	<0.005	0.023	0.2	0.223	<0.005	<0.005	0.017	<0.05	<0.005	<0.005	<0.005	0.009500001	<0.005	<0.01	<0.005	<0.005	<0.005	0.024
MW-5	8/23/12	<0.005	<0.005	<0.005	0.0044	0.0044	<0.005	0.025	0.17	0.195	<0.005	<0.005	0.0085	<0.05	<0.005	<0.005	<0.005	0.0061	<0.005	<0.01	<0.005	<0.005	<0.005	0.014
MW-6	8/10/05	0.004	0.017	<0.001	<0.001	0.021	0.13	0.022	<0.001	0.152	<0.001	0.076	0.02	<0.01	<0.001	<0.001		0.0017	0.0012				<0.001	0.0014
MW-6	6/27/06	<0.005	<0.005	<0.005	<0.002	ND	0.118	0.024	<0.005	0.142	<0.005	0.113	0.023	<0.01	<0.005	0.057		<0.005	<0.005				<0.005	<0.005
MW-6	3/6/07	<0.005	<0.005	<0.005	<0.002	ND	0.181	0.043	<0.01	0.224	<0.005	0.174	0.058	<0.01	<0.005	0.107		<0.005	<0.005				<0.005	0.005
MW-6	6/25/07	<0.005	<0.005	<0.005	<0.002	ND	0.106	0.033	<0.01	0.139	<0.005	0.186	0.028	<0.01	<0.005	0.078		<0.005	<0.005				<0.005	0.006
MW-6	4/9/08	ND	0.006	ND	ND	0.006	0.136	0.065	ND	0.201	ND	0.208	0.075	ND	ND	0.136		ND	ND				ND	0.01
MW-6	10/15/08	<0.005	0.0082	<0.005	0.0022	0.0104	0.11	0.04	<0.01	0.15	<0.005	0.27	0.035	<0.05	<0.005	0.085	<0.005	<0.005	<0.005	0.045	<0.005	<0.005	<0.005	0.011
MW-6	6/23/09	0.0057	0.018	0.011	0.014	0.0487	0.072	0.047	<0.01	0.119	<0.005	0.12	0.036	<0.05	<0.005	0.067	<0.005	<0.005	<0.005	0.035	<0.005	<0.005	<0.005	0.011
MW-6	10/8/10	<0.005	0.036	0.0055	0.0056	0.0471	0.037	0.015	<0.01	0.052	<0.005	0.076	0.014	<0.05	<0.005	0.025	<0.005	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	0.0052
MW-6	2/8/12	<0.005	0.041	0.006	0.0028	0.0498	0.026	0.019	<0.01	0.045	<0.005	0.11	0.013	<0.05	<0.005	0.024	<0.005	<0.005	<0.005	0.02	<0.005	<0.005	<0.005	0.0067
MW-7	6/27/06	0.905	0.107	0.067	0.005	1.084	0.039	0.02	<0.005	0.059	<0.005	0.057	0.012	<0.01	<0.005	0.026		<0.005	<0.005				<0.005	<0.005
MW-7	3/7/07	0.788	0.084	0.085	0.006	0.963	0.031	0.014	<0.01	0.045	<0.005	0.026	0.01	<0.01	<0.005	0.018		<0.005	<0.005				<0.005	<0.005
MW-7	6/26/07	0.678	0.129	0.137	0.026	0.97	0.04	0.022	<0.01	0.062	<0.005	0.062	0.009	<0.01	<0.005	0.018		<0.005	<0.005				0.004 J	<0.005
MW-7	9/14/07	1.13	0.786	0.348	0.014	2.278	0.272	0.082	ND	0.354	ND	0.354	0.067	ND	ND	0.119		ND	ND				0.004	0.019
MW-7	4/8/08	1.06	0.226	0.335	0.104	1.725	0.039	0.024	ND	0.063	ND	0.108	0.034	ND	ND	0.067		0.007	ND				ND	0.009
MW-7	10/15/08	2	0.67	0.52	0.27	3.46	0.18	0.095	<0.01	0.275	<0.005	0.47	0.078	<0.05	<0.005	0.17	<0.005	0.026	<0.005	0.13	<0.005	<0.005	<0.005	0.02
MW-7	6/23/09	1.3	0.19	0.28	0.21	1.98	0.01	0.019	<0.01	0.029	<0.005	0.048	0.0091	0.15	<0.005	0.021	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-7	10/8/10	1.9	0.26	0.24	0.083	2.483	0.016	0.032	<0.01	0.048	<0.005	0.042	0.016	<0.05	<0.005	0.025	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-7 (Dup)	10/8/10	2.2	0.19	0.22	0.13	2.74	<0.005	0.02	<0.01	0.02	<0.005	0.014	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-7	2/9/12	1.7	0.23	0.32	0.15	2.4	<0.005	0.016	<0.01	0.016	<0.005	0.034	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-8	6/28/06	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.005	ND	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-8	3/6/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-8	6/25/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-8	9/13/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-8	4/8/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-8	10/14/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-8	6/22/09	<0.005	<0.005	<0.005	<0.002	ND	<																	

Capitol Adhesives

Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)

Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloroe thane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethanes	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2- Dichloro ethane	Acetone	Benzene	Chloroform	Cyclo hexane	Dichloro methane (Methylene chloride)	Freon-11	Freon-113	Methyl cyclo hexane	o-Xylene	Toluene	trans-1,2- Dichloroet hene
Type 1 RRS or DL		0.005	0.005	0.07	0.002		0.2	4	DL		0.005	0.007	0.005	4	0.005	0.08	DL	0.005	2	1000	DL	10	1	0.1
MW-10	7/8/06	<0.005	0.025	0.008	<0.002	0.033	0.004 J	<0.005	<0.01	0.004	<0.005	<0.005	0.004 J	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-10	3/6/07	<0.005	0.031	0.008	<0.002	0.039	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-10	6/26/07	<0.005	0.058	0.015	<0.002	0.073	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-10	9/14/07	ND	0.064	0.015	ND	0.079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-10	4/9/08	ND	0.039	0.013	ND	0.052	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-10	10/16/08	<0.005	0.06	0.021	0.0024	0.0834	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-10	6/23/09	<0.005	0.05	0.013	<0.002	0.063	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-10	10/8/10	<0.005	0.093	0.016	<0.002	0.109	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-10	2/7/12	<0.005	0.049	0.016	<0.002	0.065	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-11	7/8/06	<0.005	0.005	0.007	<0.002	0.012	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-11	3/7/07	<0.005	0.006	0.005	<0.002	0.011	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-11	6/26/07	<0.005	<0.005	0.005	<0.002	0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-11	9/14/07	ND	ND	0.005	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-11	4/9/08	ND	ND	0.006	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-11	10/16/08	<0.005	0.0054	0.008300001	<0.002	0.014	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-11 (Dup)	10/16/08	<0.005	0.0056	0.0077	<0.002	0.013	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-11	6/23/09	<0.005	0.006	0.009500001	<0.002	0.016	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-11	10/8/10	<0.005	<0.005	0.0062	<0.002	0.0062	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-11	2/7/12	<0.005	<0.005	0.0088	<0.002	0.0088	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-12	7/8/06	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-12	3/7/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-12	6/26/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-12	9/14/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-12	4/9/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-12	10/16/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-12	6/23/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-12	10/8/10	<0.005	0.0068	0.0076	<0.002	0.0144	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-12	2/7/12	<0.005	0.0091	0.014	<0.002	0.0231	<0.005	0.0071	<0.01	0.0071	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-13	6/28/06	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-13	3/6/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-13	6/25/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-13	9/13/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-13	4/8/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-13	10/15/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-13	6/22/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-13	10/12/10	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-13 (Dup)	10/12/10	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-13 (Dup)	2/8/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-13	2/8/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-14	6/29/06	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-14	3/6/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-14	6/25/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-14	9/13/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-14	4/8/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-14	10/15/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-14	6/22/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-14	10/12/10	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-14	2/8/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01</															

Capitol Adhesives																								
Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)																								
Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloroe thane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethanes	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2- Dichloro ethane	Acetone	Benzene	Chloroform	Cyclo hexane	Dichloro methane (Methylene chloride)	Freon-11	Freon-113	Methyl cyclo hexane	o-Xylene	Toluene	trans-1,2- Dichloroet hene
Type 1 RRS or DL		0.005	0.005	0.07	0.002		0.2	4	DL		0.005	0.007	0.005	4	0.005	0.08	DL	0.005	2	1000	DL	10	1	0.1
MW-16	6/29/06	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-16	3/6/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-16	6/25/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-16	9/13/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-16	4/9/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-16	10/14/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-16	6/22/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-16	10/8/10	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-16	2/8/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-16	8/23/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-17	3/6/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-17	6/26/07	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005		<0.005	<0.005				<0.005	<0.005
MW-17	9/14/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-17	4/9/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	ND
MW-17	10/16/08	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-17	6/23/09	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-17	10/8/10	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
MW-17	2/7/12	<0.005	<0.005	<0.005	<0.002	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
ND: Not detected		Note: Detection Limits from September 2007 and April 2008 are not available. If obtained, they will be added in a future report.																						
DL: Detection limit		Result greater than RRS, or DL if no RRS																						



Capitol Adhesives
Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)

Sample ID	Depth (ft bgs)	Date Sampled	Tetrachlor oethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloro ethane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethaness	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2,4- Trimethyl benzene	1,2- Dibromo ethane	1,2- Dichloro benzene	1,2- Dichloro ethane	1,2- Dichloro propane	1,3,5- Trimethyl benzene	1,4- Dioxane	2-Butanone (MEK)	4-Methyl-2- pentanone	Acetone
Solid Aquifer Matrix																							
GP001	6-8	8/9/05	<0.0054	<0.0054	<0.0054		ND	<0.0054			ND		<0.0054	<0.0054			<0.0054	<5.4	<0.0054				
GP002	4-6	8/9/05	<0.0049	<0.0049	<0.0049		ND	<0.0049			ND		<0.0049	<0.0049			<0.0049	<4.9	<0.0049				
GP003	2-4	8/9/05	<0.0048	<0.0048	<0.0048		ND	<0.0048			ND		<0.0048	<0.0048			<0.0048	<4.8	<0.0048				
GP004	4-6	8/9/05	<0.004	<0.004	<0.004		ND	<0.004			ND		<0.004	<0.004			<0.004	<4	<0.004				
GP005	4-6	8/9/05	<0.0045	<0.0045	<0.0045		ND	<0.0045			ND		<0.0045	<0.0045			<0.0045	<4.5	<0.0045				
GP006	2-4	8/9/05	<0.0046	<0.0046	<0.0046		ND	<0.0046			ND		<0.0046	<0.0046			<0.0046	<4.6	<0.0046				
GP009	2-4	8/10/05	<0.0043	<0.0043	<0.0043		ND	<0.0043			ND		<0.0043	<0.0043			<0.0043	<4.3	<0.0043				
GP010	4-6	8/10/05	0.13	0.33	<0.067		0.46	0.15			0.15		0.093	<0.067			<0.067	<67	<0.067				
GP011	2-4	8/10/05	0.13	0.63	<0.061		0.76	<0.061			ND		0.099	<0.061			<0.061	<61	<0.061				
GP012	4-6	8/10/05	1.5	1.8	0.56		3.86	0.41			0.41		0.72	<0.063			0.15	150	<0.063				
GP013	4-6	8/10/05	<0.0052	<0.0052	<0.0052		ND	<0.0052			ND		<0.0052	<0.0052			<0.0052	<5.2	<0.0052				
MIP-1	2	10/16/08	15	12	2.2	0.025	29.225	0.2	0.18	<0.012	0.38	0.029	0.35	NA	<0.006	<0.006	0.36	<0.006	NA	<8.40E-02	<0.06	<0.012	<0.12
MIP-1	5	10/16/08	0.036	0.02	<0.0067	<0.013	0.056	<0.0067	<0.0067	<0.013	ND	<0.0067	<0.0067	NA	<0.0067	<0.0067	<0.0067	<0.0067	NA	<0.2	<0.067	<0.013	<0.13
MIP-1	9	10/16/08	0.024	0.0052	0.018	0.015	0.0622	<0.0029	<0.0029	<0.0058	ND	<0.0029	<0.0029	NA	<0.0029	<0.0029	<0.0029	<0.0029	NA	<8.80E-02	<0.029	<0.0058	<0.058
MIP-5	3	10/16/08	<0.0022	<0.0022	<0.0022	<0.0045	ND	<0.0022	<0.0022	<0.0045	ND	<0.0022	<0.0022	NA	<0.0022	<0.0022	<0.0022	<0.0022	NA	<0.067	<0.022	<0.0045	<0.045
MIP-6	6	10/16/08	<0.008	<0.008	<0.008	<0.016	ND	<0.008	<0.008	<0.016	ND	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	NA	<0.24	<0.08	<0.016	<0.16
MIP-8	2	10/16/08	0.37	2.4	0.068	0.04	2.878	0.014	0.031	<0.0026	0.045	0.0048	0.21	NA	<0.0013	<0.0013	0.14	<0.0013	NA	<0.039	<0.013	<0.0026	0.54
MIP-8	4	10/16/08	0.091	0.2	<0.007	<0.014	0.291	<0.007	<0.007	<0.014	ND	<0.007	<0.007	NA	<0.007	<0.007	<0.007	<0.007	NA	<0.21	<0.07	<0.014	<0.14
MIP-12	12	10/16/08	0.73	0.38	<0.11	0.0056	1.1156	0.13	0.018	<0.0038	0.148	0.0022	0.21	NA	<0.0019	<0.0019	0.038	<0.0019	NA	<0.056	<0.019	<0.0038	<0.038
MIP-12	4	10/16/08	<0.0069	<0.0069	<0.0069	<0.014	ND	<0.0069	<0.0069	<0.014	ND	<0.0069	<0.0069	NA	<0.0069	<0.0069	<0.0069	<0.0069	NA	<0.21	<0.069	<0.014	<0.14
MIP-12	6	10/16/08	<0.0076	<0.0076	<0.0076	<0.015	ND	<0.0076	<0.0076	<0.015	ND	<0.0076	<0.0076	NA	<0.0076	<0.0076	0.026	<0.0076	NA	<0.23	<0.076	<0.015	<0.15
MIP-13	1	10/16/08	0.0087	<0.0038	0.0068	0.54	0.5555	<0.0038	0.12	0.42	0.54	<0.0038	<0.0038	NA	<0.0038	<0.0038	0.052	<0.0038	NA	1.4	0.12	0.0098	<0.076
MIP-13	3	10/16/08	0.0069	0.0093	0.058	0.79	0.8642	0.0034	0.22	0.14	0.3634	<0.0027	0.047	NA	<0.0027	<0.0027	0.046	<0.0027	NA	0.510	<0.027	<0.0053	<0.053
MIP-13	6	10/16/08	1.5	2.6	2	0.66	6.76	0.42	0.44	0.03	0.89	0.017	1.8	NA	<0.0027	<0.0027	0.78	<0.0027	NA	0.64	<0.027	<0.0054	<0.054
MIP-19	1	10/16/08	<0.0059	<0.0059	<0.0059	<0.012	ND	<0.0059	<0.0059	<0.012	ND	<0.0059	<0.0059	NA	<0.0059	<0.0059	<0.0059	<0.0059	NA	<0.18	<0.059	<0.012	<0.12
MIP-19	3	10/16/08	<0.0071	<0.0071	<0.0071	<0.014	ND	<0.0071	<0.0071	<0.014	ND	<0.0071	<0.0071	NA	<0.0071	<0.0071	<0.0071	<0.0071	NA	<0.21	<0.071	<0.014	<0.14
MW-1D	8-10	7/13/04	<0.0019	<0.0019	<0.0019	<0.0019	ND	<0.0019	<0.0019	<0.0019	ND	<0.0019	<0.0019	<0.0019	<0.00184	<0.0019	<0.0019	<1.9	<0.00184	NA	<0.0461	<0.00921	<0.0461
MW-2D	8-10	7/13/04	<0.0017	<0.0017	<0.0017	<0.0017	ND	<0.0017	<0.0017	<0.0017	ND	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<1.7	<0.0017	NA	<0.0428	<0.00856	<0.0428
MW-3	8-10	7/14/04	0.0191	0.0138	<0.0018	<0.0018	0.0329	0.0312	<0.0018	<0.0018	0.0312	<0.0018	0.0025	<0.0018	<0.0018	<0.0018	0.0067	6.7	<0.0018	NA	<0.0448	<0.00895	<0.0448
MW-3D	13-15	7/14/04	2.44	1.31	<0.134	<0.134	3.75	0.416	<0.134	<0.134	0.416	<0.134	<0.134	<0.134	<0.134	<0.134	<134	<134	<0.134	NA	<3.36	<0.67	<3.36
MW-8	8-10	6/27/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-9	8-10	6/27/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-10	5-10	7/7/06	<0.005	0.006	<0.005	<0.01	0.006	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-11	5-10	7/6/06	<0.005	0.008	0.005	<0.01	0.013	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-12	5-10	7/6/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-13	13-15	6/27/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-14	13-15	6/27/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
MW-15	8-10	6/28/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	0.215	<0.005	<0.005	<0.005	<5	0.074	NA	<0.1	<0.05	<0.1
MW-16	8-10	6/27/06	<0.005	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.01	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	NA	<0.1	<0.05	<0.1
SO-2	1	3/10/09	<0.0029	<0.0029	0.003	0.33	0.333	<0.0029	0.42	0.023	0.443	<0.0029	<0.0029	NA	<0.0029	<0.0029	0.0069	<0.0029	NA	NA	<0.029	<0.0059	<0.059
SO-2	3	3/10/09	0.098	0.11	1.1	0.57	1.878	0.0064	0.78	<0.0059	0.7864	<0.0029	0.23	NA	<0.0029	<0.0029	0.18	<0.0029	NA	NA	<0.029	<0.0059	<0.059
SO-3	1	3/10/09	2700	62	7.6	<5.7	2769.6	5.3	<2.8	<5.7	5.3	<2.8	<2.8	NA	<2.8	<2.8	<2.8	<2.8	NA	NA	<28	<5.7	<57
SO-3	3	3/10/09	23	4.9	12	<4.8	39.9	<2.4	<2.4	<4.8	ND	<2.4	<2.4	NA	<2.4	<2.4	<2.4	<2.4	NA	NA	<24	<4.8	<48
SO-4	1	3/10/09	0.74	1.2	0.48	<0.0063	2.42	<0.0032	0.035	<0.0063	0.035	0.0033	0.44	NA	<0.0032	<0.0032	0.042	<0.0032	NA	NA	<0.032	<0.0063	<0.063
SO-4	3	3/10/09	0.93	1.6	0.7	<0.23	3.23	<0.11	<0.11	<0.23	ND	<0.11	0.63	NA	<0.11	<0.11	<0.11	<0.11	NA	NA	<1.1	<0.23	<2.3
SO-5	5	3/10/09	0.39	0.35	0.035	<0.006	0.775	0.07	0.02	<0.006	0.09	<0.003	0.21	NA	<0.003	<0.003	0.053	<0.003	NA	NA	<0.03	<0.006	<0.06
SO-5	9	3/10/09	<0.0062	<0.0062	<0.0062	<0.012	ND	<0.0062	<0.0062	<0.012	ND	<0.0062	<0.0062	NA	<0.0062	<0.0062	<0.0062	<0.0062	NA	NA	<0.062	<0.012	<0.12
SO-6	5	3/10/09	0.066	0.089	0.48	0.16	0.795	0.01	0.087	<0.0052	0.097	<0.0026	0.19	NA	<0.0026	<0.0026	0.077	<0.0026	NA	NA	<0.026	<0.0052	<0.052
SO-7	3	3/10/09	1.9	2.4	0.015	<0.01	4.315	0.072	0.18	<0.01	0.252	0.0072	0.89	NA	<0.0052	<0.0052	0.13	<0.0052	NA	NA	<0.052	<0.01	

Capitol Adhesives
Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)

Sample ID	Depth (ft bgs)	Date Sampled	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro benzene	Chloroform	cis/trans1,2- Dichloro ethene	Cyclo hexane	Dichloro methane (Methylene chloride)	Ethyl benzene	Freon-11 (Trichlorof luorometha ne	Freon-113	Isopropyl benzene	m&p- Xylene	Methyl acetate	Methyl cyclo hexane	Naphthalene	n-Propyl benzene	o-Xylene	sec-Butyl benzene	Toluene	trans-1,2- Dichloro ethene
Solid Aquifer Matrix																							
GP001	6-8	8/9/05					<0.0054	<0.0054		<0.0054	<0.0054			<0.0054				<0.0054	<0.0054		<0.0054	<0.0054	
GP002	4-6	8/9/05					<0.0049	<0.0049		<0.0049	<0.0049			<0.0049				<0.0049	<0.0049		<0.0049	<0.0049	
GP003	2-4	8/9/05					<0.0048	<0.0048		<0.0048	<0.0048			<0.0048				<0.0048	<0.0048		<0.0048	<0.0048	
GP004	4-6	8/9/05					<0.004	<0.004		<0.004	<0.004			<0.004				<0.004	<0.004		<0.004	<0.004	
GP005	4-6	8/9/05					<0.0045	<0.0045		<0.0045	<0.0045			<0.0045				<0.0045	<0.0045		<0.0045	<0.0045	
GP006	2-4	8/9/05					<0.0046	<0.0046		<0.0046	<0.0046			<0.0046				<0.0046	<0.0046		<0.0046	<0.0046	
GP009	2-4	8/10/05					<0.0043	<0.0043		<0.0043	<0.0043			<0.0043				<0.0043	<0.0043		<0.0043	<0.0043	
GP010	4-6	8/10/05					<0.067	0.093		<0.067	<0.067			<0.067				<0.067	<0.067		<0.067	<0.067	
GP011	2-4	8/10/05					0.064	0.099		<0.061	<0.061			<0.061				<0.061	<0.061		<0.061	<0.061	
GP012	4-6	8/10/05					0.29	0.72		0.29	<0.063			<0.063				<0.063	<0.063		<0.063	<0.063	
GP013	4-6	8/10/05					<0.0052	<0.0052		<0.0052	<0.0052			<0.0052				<0.0052	<0.0052		<0.0052	<0.0052	
MIP-1	2	10/16/08	<0.006	<0.012	<0.006	<0.006	0.73	NA	<0.006	<0.006	<0.006	<0.006	<0.012	<0.006	<0.012	<0.006	0.0094	NA	NA	<0.006	NA	0.027	0.055
MIP-1	5	10/16/08	<0.0067	<0.013	<0.0067	<0.0067	<0.0067	NA	<0.0067	<0.0067	<0.0067	<0.0067	<0.013	<0.0067	<0.013	<0.0067	<0.0067	NA	NA	<0.0067	NA	<0.0067	<0.0067
MIP-1	9	10/16/08	<0.0029	<0.0058	<0.0029	<0.0029	<0.0029	NA	<0.0029	<0.0029	<0.0029	<0.0029	<0.0058	<0.0029	<0.0058	<0.0029	<0.0029	NA	NA	<0.0029	NA	<0.0029	<0.0029
MIP-5	3	10/16/08	<0.0022	<0.0045	<0.0022	<0.0022	<0.0022	NA	<0.0022	<0.0022	<0.0022	<0.0022	<0.0045	<0.0022	<0.0045	<0.0022	<0.0022	NA	NA	<0.0022	NA	<0.0022	<0.0022
MIP-6	6	10/16/08	<0.008	<0.016	<0.008	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.016	<0.008	<0.016	<0.008	<0.008	NA	NA	<0.008	NA	<0.008	<0.008
MIP-8	2	10/16/08	<0.0013	<0.0026	<0.0013	<0.0013	0.069	NA	<0.0013	0.11	<0.0013	<0.0013	<0.0026	<0.0013	<0.0026	<0.0013	0.015	NA	NA	<0.0013	NA	0.006	0.014
MIP-8	4	10/16/08	<0.007	<0.014	<0.007	<0.007	<0.007	NA	<0.007	<0.007	<0.007	<0.007	<0.014	<0.007	<0.014	<0.007	<0.007	NA	NA	<0.007	NA	0.0076	<0.007
MIP-12	12	10/16/08	<0.0019	<0.0038	<0.0019	<0.0019	0.12	NA	<0.0019	<0.0019	<0.0019	0.0027	<0.0038	<0.0019	<0.0038	<0.0019	<0.0019	NA	NA	<0.0019	NA	<0.0019	0.0077
MIP-12	4	10/16/08	<0.0069	<0.014	<0.0069	<0.0069	<0.0069	NA	<0.0069	<0.0069	<0.0069	<0.0069	<0.014	<0.0069	<0.014	<0.0069	<0.0069	NA	NA	<0.0069	NA	<0.0069	<0.0069
MIP-12	6	10/16/08	<0.0076	<0.015	<0.0076	<0.0076	<0.0076	NA	<0.0076	<0.0076	<0.0076	<0.0076	<0.015	<0.0076	<0.015	<0.0076	<0.0076	NA	NA	<0.0076	NA	<0.0076	<0.0076
MIP-13	1	10/16/08	0.0071	<0.0076	<0.0038	<0.0038	<0.0038	NA	0.014	0.12	<0.0038	<0.0038	0.073	<0.0038	<0.0076	<0.0038	0.18	NA	NA	<0.0038	NA	0.096	0.02
MIP-13	3	10/16/08	<0.0027	<0.0053	<0.0027	<0.0027	0.029	NA	<0.0027	0.067	<0.0027	<0.0027	<0.0053	<0.0027	<0.0053	<0.0027	0.031	NA	NA	<0.0027	NA	0.02	0.011
MIP-13	6	10/16/08	0.0066	<0.0054	<0.0027	<0.0027	1.4	NA	<0.0027	1.9	<0.0027	0.0067	<0.0054	<0.0027	<0.0054	<0.0027	0.013	NA	NA	<0.0027	NA	0.017	0.058
MIP-19	1	10/16/08	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	NA	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	<0.012	<0.0059	<0.0059	NA	NA	<0.0059	NA	<0.0059	<0.0059
MIP-19	3	10/16/08	<0.0071	<0.014	<0.0071	<0.0071	<0.0071	NA	<0.0071	<0.0071	<0.0071	<0.0071	<0.014	<0.0071	<0.014	<0.0071	<0.0071	NA	NA	<0.0071	NA	<0.0071	<0.0071
MW-1D	8-10	7/13/04	<0.0019	<0.00184	<0.0019	<0.0019	<0.0019	<0.0019	NA	<0.0046	<0.0019	<0.0019	NA	<0.00184	NA	NA	NA	<0.00461	<0.00184	NA	<0.00184	<0.0019	<0.0019
MW-2D	8-10	7/13/04	<0.0017	<0.0171	<0.0017	<0.0017	<0.0017	<0.0017	NA	<0.0043	<0.0017	<0.0017	NA	<0.00171	NA	NA	NA	<0.00428	<0.00171	NA	<0.00171	0.0026	<0.0017
MW-3	8-10	7/14/04	<0.0018	<0.0018	<0.0018	<0.0018	0.0078	0.0025	NA	<0.0045	<0.0018	<0.0018	NA	<0.0018	NA	NA	NA	<0.0048	<0.0018	NA	<0.0018	<0.0018	<0.0018
MW-3D	13-15	7/14/04	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	NA	<0.336	<0.134	<0.134	NA	<0.134	NA	NA	NA	<0.366	<0.134	NA	<0.134	<0.134	<0.134
MW-8	8-10	6/27/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-9	8-10	6/27/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-10	5-10	7/7/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-11	5-10	7/6/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-12	5-10	7/6/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-13	13-15	6/27/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-14	13-15	6/27/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-15	8-10	6/28/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	0.022	<0.005	NA	0.005	0.085	NA	NA	0.14	0.026	0.055	0.005	0.027	<0.005
MW-16	8-10	6/27/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SO-2	1	3/10/09	<0.0029	<0.0059	<0.0029	<0.0029	<0.0029	NA	0.0036	<0.0029	<0.0029	<0.0029	<0.0059	<0.0029	<0.0059	<0.0029	<0.0029	NA	NA	<0.0029	NA	0.051	0.0047
SO-2	3	3/10/09	<0.0029	<0.0059	<0.0029	<0.0029	0.04	NA	0.14	<0.0029	<0.0029	<0.0029	<0.0059	<0.0029	<0.0059	<0.0029	0.087	NA	NA	<0.0029	NA	0.05	0.026
SO-3	1	3/10/09	<2.8	<5.7	<2.8	<2.8	<2.8	NA	8	<2.8	<2.8	<2.8	<5.7	<2.8	<5.7	<2.8	130	NA	NA	<2.8	NA	3.3	<2.8
SO-3	3	3/10/09	<2.4	<4.8	<2.4	<2.4	2.5	NA	<2.4	4.5	<2.4	<2.4	<4.8	<2.4	<4.8	<2.4	<2.4	NA	NA	<2.4	NA	<2.4	<2.4
SO-4	1	3/10/09	<0.0032	<0.0063	<0.0032	<0.0032	0.06	NA	<0.0032	<0.0032	<0.0032	<0.0032	<0.0063	<0.0032	<0.0063	<0.0032	0.032	NA	NA	<0.0032	NA	<0.0032	0.0055
SO-4	3	3/10/09	<0.11	<0.23	<0.11	<0.11	0.13	NA	<0.11	<0.11	<0.11	<0.11	<0.23	<0.11	<0.23	<0.11	<0.11	NA	NA	<0.11	NA	<0.11	<0.11
SO-5	5	3/10/09	<0.003	<0.006	0.004	<0.003	0.12	NA	<0.003	<0.003	<0.003	<0.003	<0.006	<0.003	<0.006	<0.003	<0.003	NA	NA	<0.003	NA	<0.003	0.015
SO-5	9	3/10/09	<0.0062	<0.012	<0.0062	<0.0062	<0.0062	NA	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	<0.0062	<0.012	<0.0062	<0.0062	NA	NA	<0.0062	NA	<0.0062	<0.0062
SO-6	5	3/10/09	<0.0026	<0.0052	<0.0026	<0.0026	0.084	NA	<0.0026	<0.0026	<0.0026	<0.0026	<0.0052	<0.0026	<0.0052	<0.0026	<0.0026	NA	NA	<0.0026	NA	<0.0026	0.017
SO-7	3	3/10/09	<0.0052																				

Capitol Adhesives																							
Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)																							
Sample ID	Depth (ft bgs)	Date Sampled	Tetrachlor oethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloro ethane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethanes	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2,4- Trimethyl benzene	1,2- Dibromo ethane	1,2- Dichloro benzene	1,2- Dichloro ethane	1,2- Dichloro propane	1,3,5- Trimethyl benzene	1,4- Dioxane	2-Butanone (MEK)	4-Methyl-2- pentanone	Acetone
SS-AST-6	2	7/23/12	0.047	0.011	0.0077	<0.0066	0.0657	<0.0033	<0.0033	<0.0066	ND												
SS-AST-7	1	7/23/12	0.013	0.0096	1.9	0.24	2.1626	<0.003	0.62	0.07	0.69												
SS-AST-7	2	7/23/12	0.014	0.0086	2	0.31	2.3326	<0.0031	1.2	0.037	1.237												
SS-AST-8	1	7/23/12	64	58	11	<3.4	133	66	6.8	<3.4	72.8												
SS-AST-8	2	7/23/12	6.5	13	6.2	<3.2	25.7	4.7	8.7	<3.2	13.4												
SS-AST-9	1	7/23/12	380	34	66	<3	480	2.1	1.5	<3	3.6												
SS-AST-9	2	7/23/12	660	97	55	<3.7	812	15	2.1	<3.7	17.1												
SS-AST-10	1	7/23/12	0.0054	<0.0029	0.004	<0.0057	0.0094	<0.0029	<0.0029	<0.0057	ND												
SS-AST-10	2	7/23/12	0.02	0.01	0.013	<0.0067	0.043	<0.0033	<0.0033	<0.0067	ND												
SS-AST-10 (Dup)	1	7/23/12	0.058	0.018	0.016	<0.0074	0.092	0.0043	<0.0037	<0.0074	0.0043												
SS-AST-11	1	7/23/12	0.0095	0.0061	0.0066	<0.0057	0.0222	<0.0028	0.0043	<0.0057	0.0043												
SS-AST-11	2	7/23/12	0.013	0.008	0.0091	<0.0067	0.0301	<0.0034	<0.0034	<0.0067	ND												
SS-BLDG-1	1	1/12/09	<0.0024	<0.0024	0.0061	<0.0048	0.0061	<0.0024	<0.0024	<0.0048	ND	<0.0024	<0.0024	NA	<0.0024	<0.0024	<0.0024	<0.0024	NA	NA	<0.024	<0.0048	<0.048
SS-BLDG-1	5	1/12/09	<0.00284	<0.00284	0.00409	<0.00568	0.00409	<0.00284	<0.00284	<0.00568	ND	<0.00284	<0.00284	NA	<0.00284	<0.00284	<0.00284	<0.00284	NA	NA	<0.0284	<0.00568	<0.0568
SS-BLDG-2	5	1/12/09	<0.00349	<0.00349	<0.00349	<0.00697	ND	<0.00349	<0.00349	<0.00697	ND	<0.00349	<0.00349	NA	<0.00349	<0.00349	<0.00349	<0.00349	NA	NA	<0.0349	<0.00697	<0.0697
SS-BLDG-5	1	1/12/09	<0.00247	<0.00247	<0.00247	<0.00495	ND	<0.00247	<0.00247	<0.00495	ND	<0.00247	<0.00247	NA	<0.00247	<0.00247	<0.00247	<0.00247	NA	NA	<0.0247	<0.00495	<0.0495
SS-BLDG-6	1	1/12/09	0.0037	0.00288	0.0188	0.0267	0.05208	<0.00246	0.0135	<0.00493	0.0135	<0.00246	0.0259	NA	<0.00246	<0.00246	<0.00246	<0.00246	NA	NA	<0.0246	<0.00493	<0.0493
SS-HA-1	1	1/12/09	0.0108	<0.00284	0.0093	0.0987	0.1188	<0.00284	0.0121	<0.00569	0.0121	<0.00284	<0.00284	NA	<0.00284	<0.00284	0.00369	<0.00284	NA	NA	<0.0284	<0.00569	<0.0569
SS-HA-2	1	1/12/09	0.0139	<0.00325	0.0556	0.0433	0.1128	<0.00325	0.0448	<0.0065	0.0448	<0.00325	0.00754	NA	<0.00325	<0.00325	0.00702	<0.00325	NA	NA	<0.0325	<0.0065	0.2
Vadose Zone Soil																							
GP007	2-4	8/9/05	<0.0045	<0.0045	<0.0045		ND	<0.0045			ND		<0.0045	<0.0045			<0.0045	<4.5	<0.0045				
GP008	2-4	8/9/05	<0.0054	<0.0054	<0.0054		ND	<0.0054			ND		<0.0054	<0.0054			<0.0054	<5.4	<0.0054				
SS-BLDG-2	1	1/12/09	<0.00268	<0.00268	<0.00268	<0.00536	ND	<0.00268	<0.00268	<0.00536	ND	<0.00268	<0.00268	NA	<0.00268	<0.00268	<0.00268	<0.00268	NA	NA	<0.0268	<0.00536	<0.0536
SS-BLDG-3	1	1/12/09	<0.00301	<0.00301	<0.00301	<0.00602	ND	<0.00301	<0.00301	<0.00602	ND	<0.00301	<0.00301	NA	<0.00301	<0.00301	<0.00301	<0.00301	NA	NA	<0.0301	<0.00602	<0.0602
SS-BLDG-4	1	1/12/09	<0.00299	0.161	<0.00299	<0.00598	0.161	<0.00299	<0.00299	<0.00598	ND	<0.00299	<0.00299	NA	<0.00299	<0.00299	<0.00299	<0.00299	NA	NA	<0.0299	<0.00598	<0.0598
Other (sediment)																							
South Ditch	0-2	6/19/04	<0.0064	0.012	0.016		0.028	<0.0064			ND		<0.0064				<0.0064	<6.4					

NA: Not analyzed
ND: Not detected
Matrix:
Vadose Zone Soil - sample collected above or at the high water table mark
Solid Aquifer Matrix - sample collected below the high water table mark



Capitol Adhesives																							
Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)																							
Sample ID	Depth (ft bgs)	Date Sampled	Benzene	Carbon disulfide	Carbon tetra chloride	Chloro benzene	Chloroform	cis/trans1,2-Dichloro ethene	Cyclo hexane	Dichloro methane (Methylene chloride)	Ethyl benzene	Freon-11 (Trichlorof luorometha ne	Freon-113	Isopropyl benzene	m&p- Xylene	Methyl acetate	Methyl cyclo hexane	Naphthalene	n-Propyl benzene	o-Xylene	sec-Butyl benzene	Toluene	trans-1,2-Dichloro ethene
SS-AST-6	2	7/23/12																					
SS-AST-7	1	7/23/12																					
SS-AST-7	2	7/23/12																					
SS-AST-8	1	7/23/12																					
SS-AST-8	2	7/23/12																					
SS-AST-9	1	7/23/12																					
SS-AST-9	2	7/23/12																					
SS-AST-10	1	7/23/12																					
SS-AST-10	2	7/23/12																					
SS-AST-10 (Dup)	1	7/23/12																					
SS-AST-11	1	7/23/12																					
SS-AST-11	2	7/23/12																					
SS-BLDG-1	1	1/12/09	<0.0024	<0.0048	<0.0024	<0.0024	<0.0024	NA	<0.0024	<0.0024	<0.0024	<0.0024	0.012	<0.0024	<0.0048	<0.0024	<0.0024	NA	NA	<0.0024	NA	<0.0024	<0.0024
SS-BLDG-1	5	1/12/09	<0.00284	<0.00568	<0.00284	<0.00284	<0.00284	NA	<0.00284	<0.00284	<0.00284	<0.00284	0.0615	<0.00284	<0.00568	<0.00284	0.00426	NA	NA	<0.00284	NA	<0.00284	<0.00284
SS-BLDG-2	5	1/12/09	<0.00349	<0.00697	<0.00349	<0.00349	<0.00349	NA	<0.00349	<0.00349	<0.00349	<0.00349	<0.00697	<0.00349	<0.00697	<0.00349	<0.00349	NA	NA	<0.00349	NA	<0.00349	<0.00349
SS-BLDG-5	1	1/12/09	<0.00247	<0.00495	<0.00247	<0.00247	<0.00247	NA	<0.00247	<0.00247	<0.00247	<0.00247	<0.00495	<0.00247	<0.00495	<0.00247	<0.00247	NA	NA	<0.00247	NA	<0.00247	<0.00247
SS-BLDG-6	1	1/12/09	<0.00246	<0.00493	<0.00246	<0.00246	<0.00246	NA	<0.00246	<0.00246	<0.00246	<0.00246	<0.00493	<0.00246	<0.00493	<0.00246	<0.00246	NA	NA	<0.00246	NA	<0.00246	<0.00246
SS-HA-1	1	1/12/09	<0.00284	<0.00569	<0.00284	<0.00284	<0.00284	NA	<0.00284	<0.00284	<0.00284	<0.00284	<0.00569	<0.00284	<0.00569	<0.00284	0.00657	NA	NA	<0.00284	NA	0.00674	<0.00284
SS-HA-2	1	1/12/09	<0.00325	<0.0065	<0.00325	<0.00325	<0.00325	NA	0.00716	<0.00325	<0.00325	<0.00325	<0.0065	<0.00325	<0.0065	<0.00325	0.178	NA	NA	<0.00325	NA	0.00473	<0.00325
Vadose Zone Soil																							
GP007	2-4	8/9/05					<0.0045	<0.0045		<0.0045	<0.0045			<0.0045				<0.0045	<0.0045		<0.0045	<0.0045	
GP008	2-4	8/9/05					<0.0054	<0.0054		<0.0054	<0.0054			<0.0054				<0.0054	<0.0054		<0.0054	<0.0054	
SS-BLDG-2	1	1/12/09	<0.00268	<0.00536	<0.00268	<0.00268	<0.00268	NA	<0.00268	<0.00268	<0.00268	<0.00268	<0.00536	<0.00268	<0.00536	<0.00268	<0.00268	NA	NA	<0.00268	NA	<0.00268	<0.00268
SS-BLDG-3	1	1/12/09	<0.00301	<0.00602	<0.00301	<0.00301	<0.00301	NA	<0.00301	<0.00301	<0.00301	<0.00301	<0.00602	<0.00301	<0.00602	<0.00301	<0.00301	NA	NA	<0.00301	NA	<0.00301	<0.00301
SS-BLDG-4	1	1/12/09	<0.00299	<0.00598	<0.00299	<0.00299	<0.00299	NA	<0.00299	<0.00299	<0.00299	<0.00299	<0.00598	<0.00299	<0.00598	<0.00299	<0.00299	NA	NA	<0.00299	NA	<0.00299	<0.00299
Other (sediment)																							
South Ditch	0-2	6/19/04					<0.0064	<0.0064		0.0082	<0.0064												

NA: Not analyzed

ND: Not detected

Matrix:

Vadose Zone Soil - sample collected above or at the high water table mark

Solid Aquifer Matrix - sample collected below the high water table mark



Capitol Adhesives

Table B-3. Anaerobic Biodegradation Preliminary Screening

Indicator Parameter	Criterion	Scoring Value	Plume				Sidegradient		Downgradient	Upgradient
			MW-3	MW-3D	MW-4	MW-5	MW-12	MW-14	MW-16	MW-8
Oxygen	< 0.5 mg/L	3	0.44	0.53	0.41	0.26	0.3	0.69	0.37	0.62
Nitrate	< 1 mg/L	2	0.019	0.017	0.016	0.015				1
Iron II	> 1 mg/L	3	0.1	0.6	0.5	3.4				
Total Iron	>10		0.791	0.549	7.15	7.46				
Sulfate	< 20 mg/L	2	11	8	5	5				6
Sulfide	> 1 mg/L	3	ND	ND	ND	ND				ND
Methane	<0.5 mg/L	0	1.5	0.27	4.3	8.1				0.004
	>0.5 mg/L	3								
ORP	< 50 mV	1	-54	-109	-57	-147	160	76	137	98
	< -100 mV	2								
pH	5-9	0	6.71	7.07	6.73	6.9	6.66	7.39	6.48	6.82
	<5 or >9	-2								
TOC	> 20 mg/L	2	1.3	0.5	0.7	5.9				< 5
Phosphorus			0.028	<0.02	0.049	0.115				
Temp	> 20 C	1	23.67	21.24	22.88	28.7	21.44	18.77	20.72	20.63
Carbon Dioxide	> 2 x Bkg	1								
Alkalinity	> 2 x Bkg	1	181	160	233	915				126
Chloride	> 2 x Bkg	2	34	15	9.7	33				6.5
Hydrogen	> 1 nM	3								
Volatile Fatty Acids	> 0.1 mg/L	2								
TCE		2	4.5	1.3	0.086	<0.005	0.0068	<0.005	<0.005	<0.005
DCE		2	1	0.3	0.057	<0.005	0.0076	<0.005	<0.005	<0.005
VC		2	0.11	0.077	0.059	0.011	<0.002	<0.002	<0.002	<0.002
DCA		2	0.31	0.15	0.0062	0.0051	<0.005	<0.005	<0.005	<0.005
Chloroethane		2	<0.01	<0.01	<0.01	0.24	<0.01	<0.01	<0.01	<0.01
Ethene/Ethane	> 0.01 mg/L	2	0.055	ND	0.048	0.31				ND
	> 0.1 mg/L	3								
Score			28	24.5	26	31	12	7.5	8	12.5
Evidence for reductive dechlorination			Strong	Strong	Strong	Strong	Limited	Limited	Limited	Limited

Strong (>20) = Strong evidence for reductive dechlorination

Adequate (15-20) = Adequate evidence for reductive dechlorination

Limited (6-14) = Limited evidence for reductive dechlorination

Inadequate (0-5) = Inadequate evidence for reductive dechlorination

Data from October 2010

Meets criterion

Capitol Adhesives

Table B-4. Anaerobic Microbial Testing Results (October, 2010)

	Test 1: Plate Counting					Test 2: CENSUS				
	Anaerobic CFU/mL at 48 hrs	% Strain 1A (low discrimination)	% Strain 5A (<i>Achromobacter denitrificans</i>)	% Strain 6 (<i>Kocuria kristinae</i>)	% Strain 7 (low discrimination)	<i>Dehalococcoides</i> spp. (cells/mL)	tceA Reductase	vinyl chloride reductase	bva Reductase	<i>Dehalobacter</i> spp.
Groundwater Testing										
MW-3	70		10%	90%		93.9	42.2	5.6	<0.4	1600
MW-3D	20	34%		33%	33%					
MW-5	30		100%			64,800	3,860	37,300	<0.8	7340
MW-4	<10									
Endpoint Assay										
111-TCA		Excellent	Excellent	No Effect	Inhibited					
TCE		Excellent	Excellent	Inhibited	Good					

10-1,000 potential if VC Rdases present

>10,000 good if RDases present

Table B-5. Aerobic Microbial Testing Results (October, 2010)

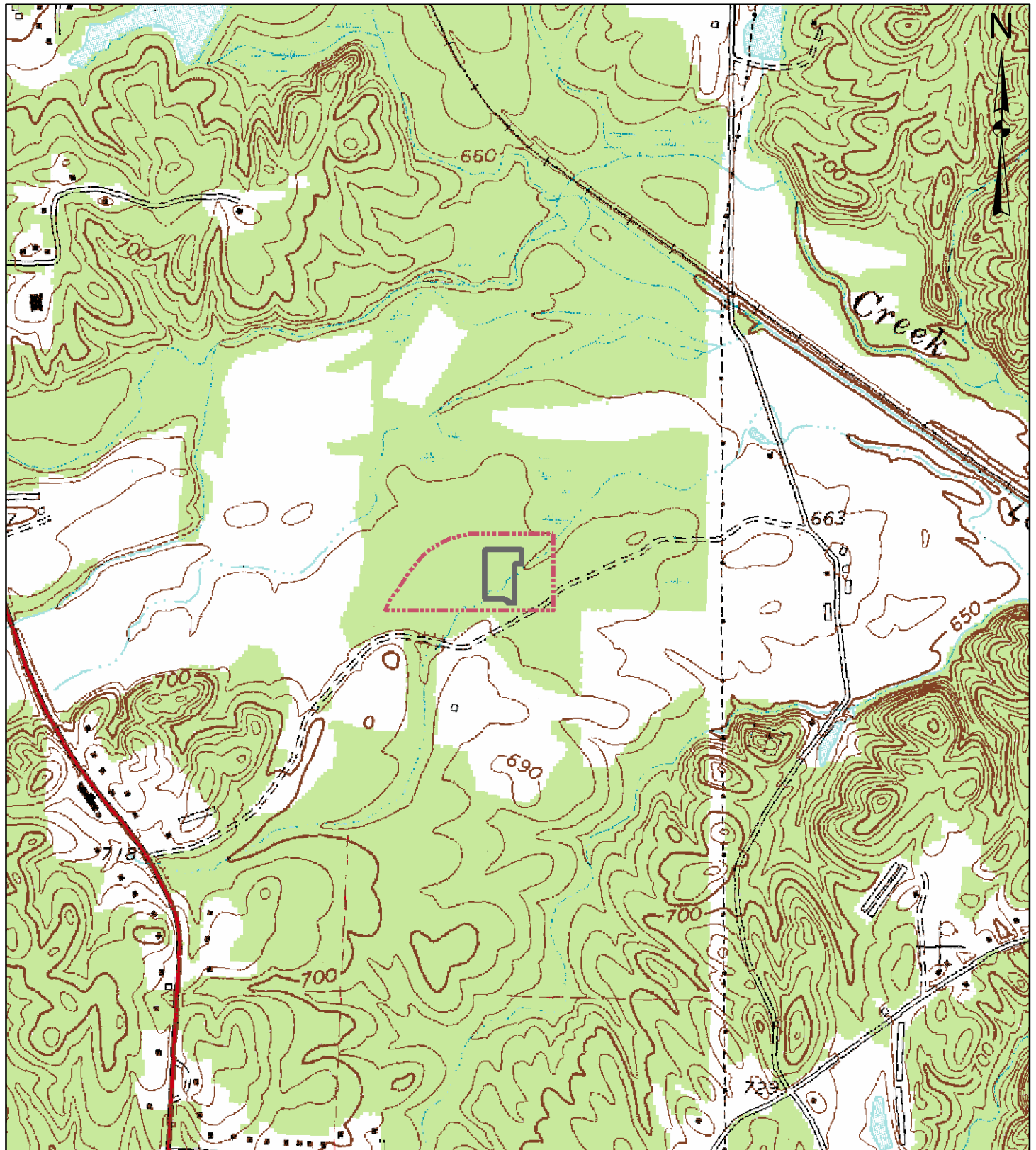
	Test 1: Plate Counting					
	Aerobic CFU/mL at 48 hrs	% Strain 1 (<i>Kocuria kristinae</i>)	% Strain 2 (<i>Micrococcus luteus</i> / <i>lylae</i>)	% Strain 3 (<i>Pseudomonas aeruginosa</i>)	% Strain 4 (<i>Pseudomonas aeruginosa</i>)	% Strain 5 (unidentified)
Groundwater Testing						
MW-3	100	95%	5%			
MW-3D	<10					
MW-5	250			98%	2%	
MW-4	70					100%
Endpoing Assay						
111-TCA		Minimal	Inhibited	Excellent	Excellent	Fair
TCE		No Effect	Inhibited	Excellent	Excellent	Minimal

Good indication of biodegradation

Moderate indication of biodegradation



FIGURES

Capitol Adhesives Topographic Map



Source: USGS Quadrangle Dalton South, Georgia 1982

Legend

-  Building
-  Property Boundary

Capitol Adhesives Aerial of Property and Site Features



0 37.5 75 150
Feet

Legend

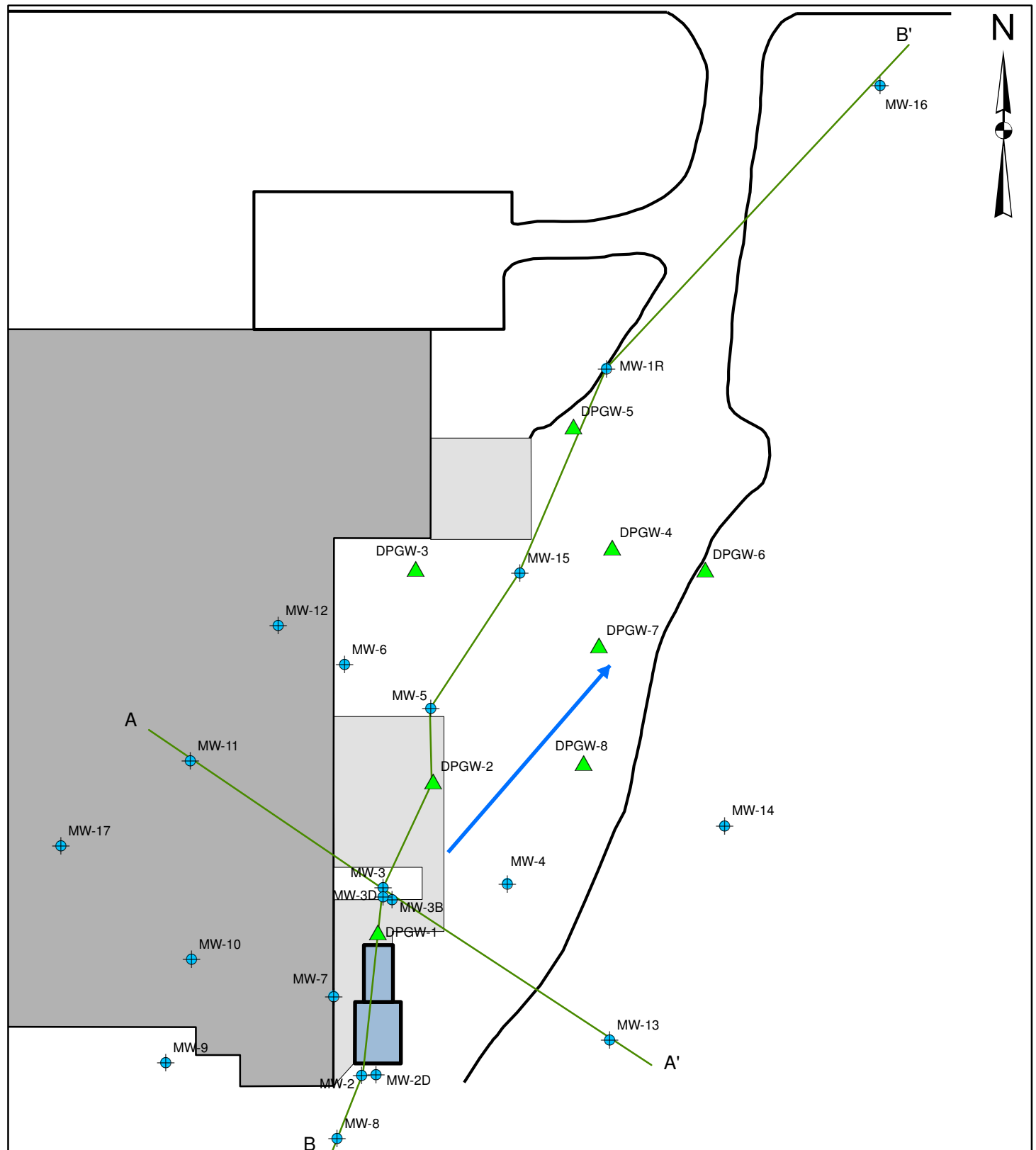
- AST Containment Area
- Location of Spill (approx)

- Storm Water Outfall
- Open Drains
- Subgrade Storm/Drain Lines

- Drainage Ditch
- Approximate Property Boundary

Source: FlashEarth 2008

Capitol Adhesives Cross-Section Location Map



0 50 100
Feet

Legend

- MW Monitoring Well Location
- ▲ DPGW Direct-push Groundwater Sampling Location

→ General Direction of Groundwater Flow

- AST Containment
- Facility
- Concrete Surface

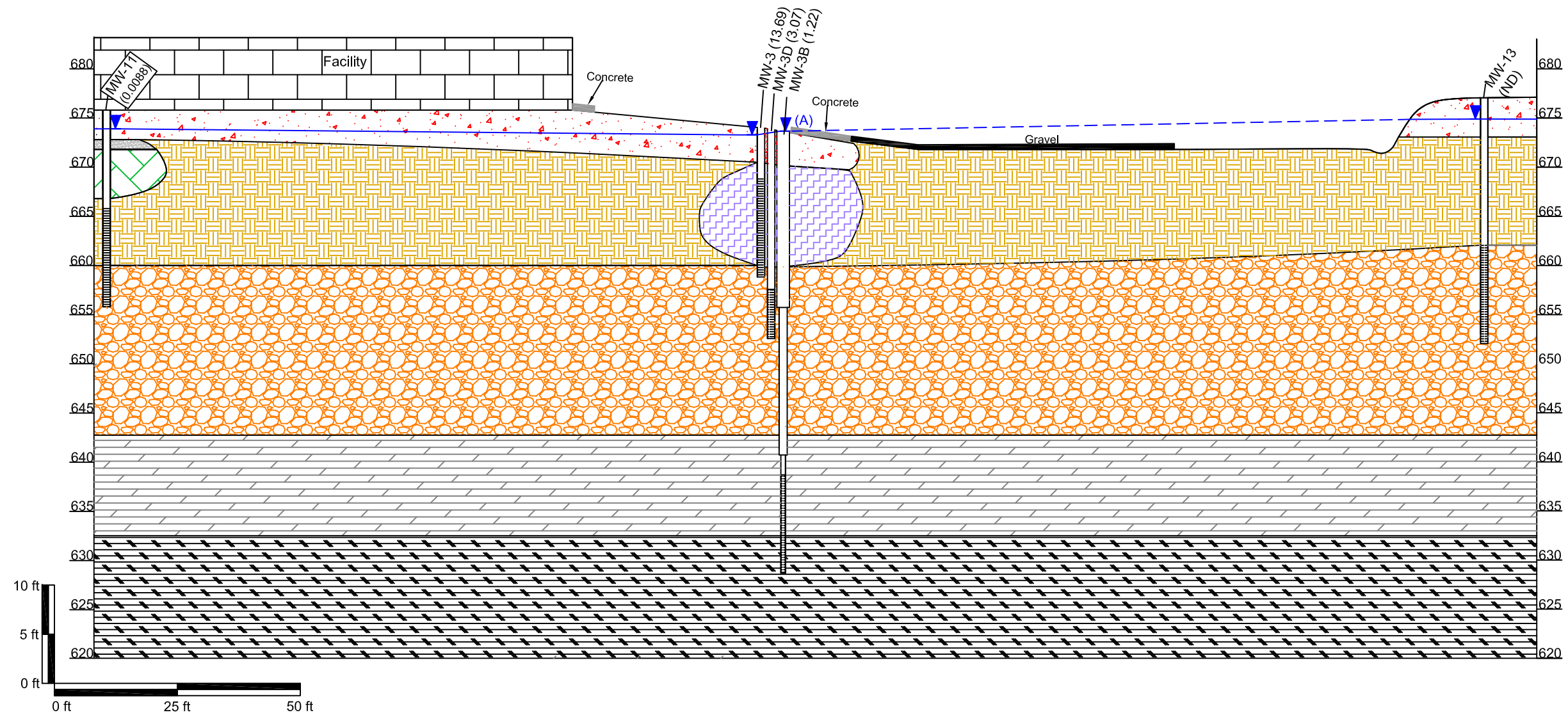
West

A

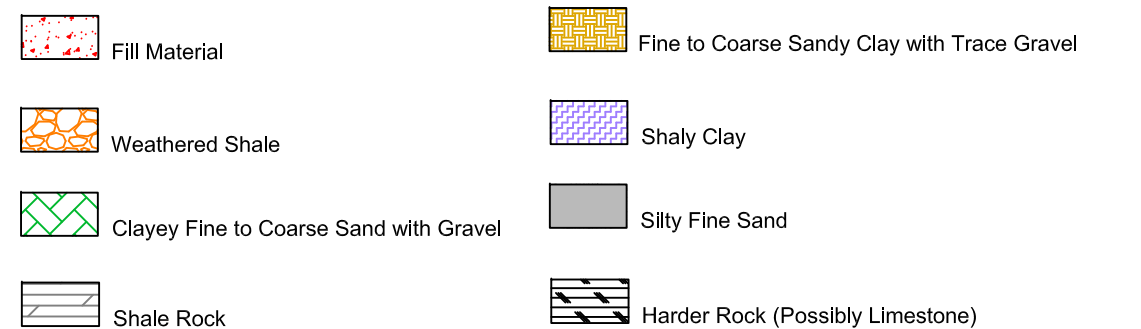
East

A'

Lithological
Cross Section A-A'
(Profile)



Legend



(9.8) Total chlorinated ethanes and ethenes (mg/L) in 2012; includes TCA, DCA, CA, PCE, TCE, DCE, VC;

▼ Historical "High" recorded water table

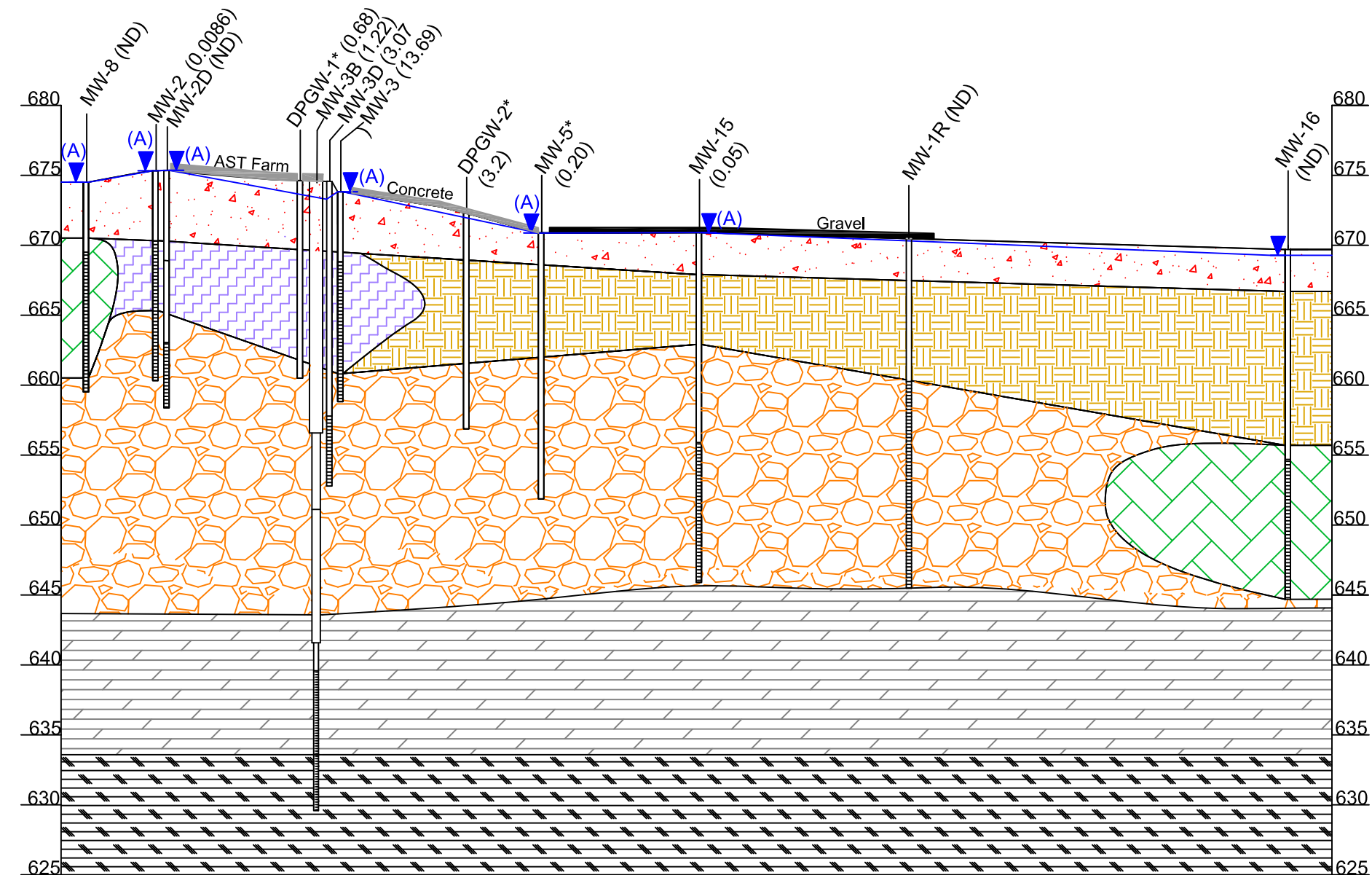
(A) Well was artesian at time of gauging

 1050 Crown Pointe Parkway Suite 550 Atlanta, GA 30338 Phone: (404) 315-9113	DES			DATE: October 2012
	DRN	JD	10/10	Capitol Adhesives 300 Cross Plains Blvd. Dalton, GA 30721
	CHK			
	REV	FR	9/12	
	APP			
	PROJ MGR	TB	10/10	
OPER				
Lithological Cross-Section A-A'				FIGURE B-4

South
B

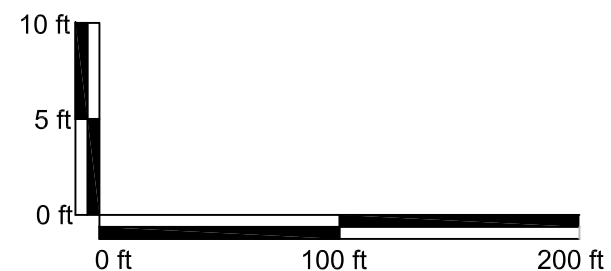
North
B'

Lithological
Cross Section B-B'
(Profile)



Legend

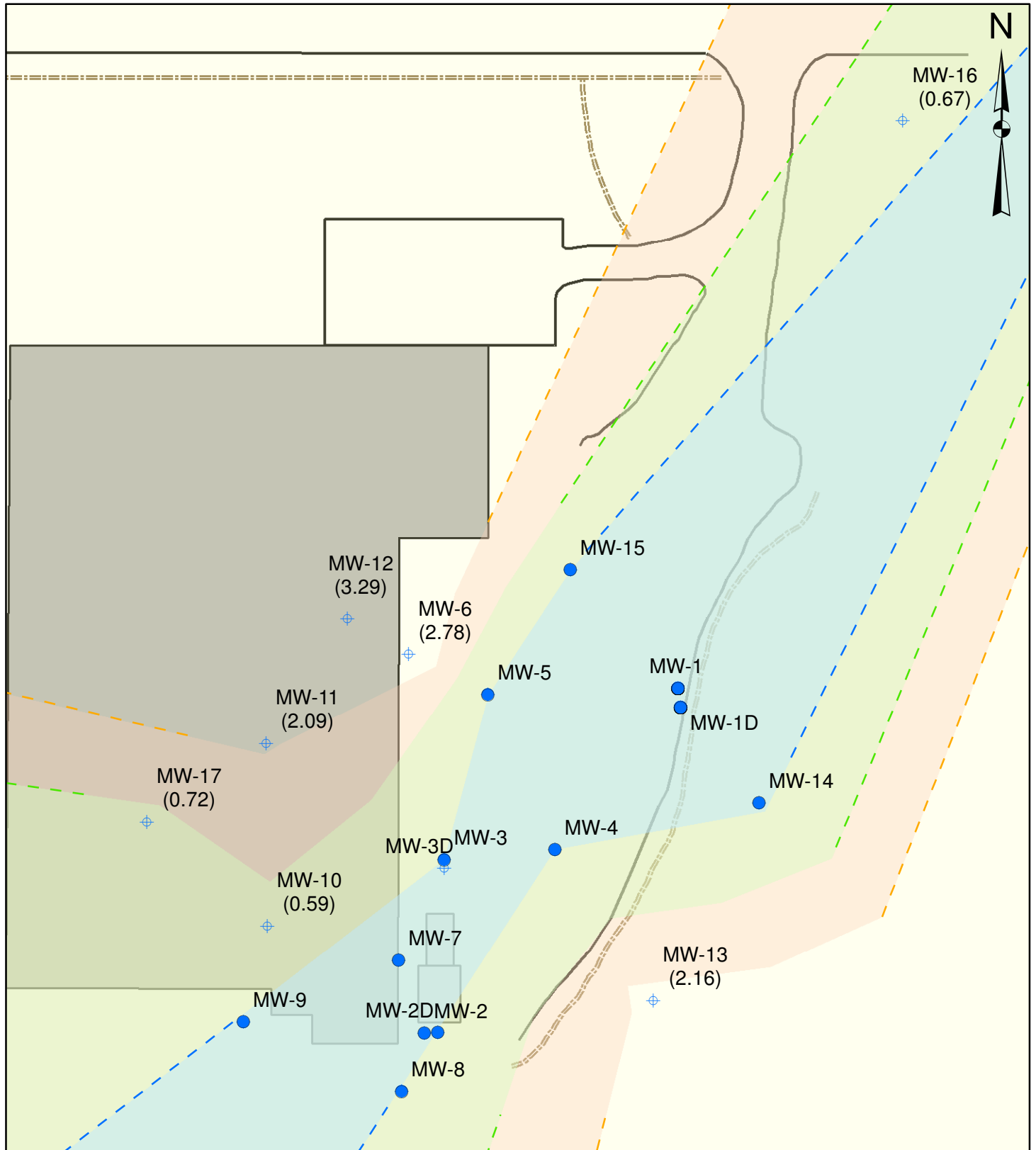
- Fine to Coarse Sandy Clay with Trace Gravel
- Weathered Shale
- Clayey Fine to Coarse Sand with Gravel
- Fill Material
- Shale Rock
- Shaly Clay
- Harder Rock (Possibly Limestone)
- Historical "High" recorded water table
- Well was artesian at time of gauging
- Total chlorinated ethanes and ethenes (mg/L) in 2012 (DPGW samples from 2009); includes TCA, DCA, CA, PCE, TCE, DCE, VC;
- No boring log available



1050 Crown Pointe Parkway
Suite 550
Atlanta, GA 30338
Phone: (404) 315-9113

DES			DATE: October 2012	
DRN	JD	10/10	Capitol Adhesives 300 Cross Plains Blvd. Dalton, GA 30721	
CHK				
REV	FR	5/11		
APP				
PROJ MGR	TB	10/10		
OPER			Lithological Cross-Section B-B'	
			FIGURE	B-5

Capitol Adhesives Soil Zones Based on High Water Table Conditions



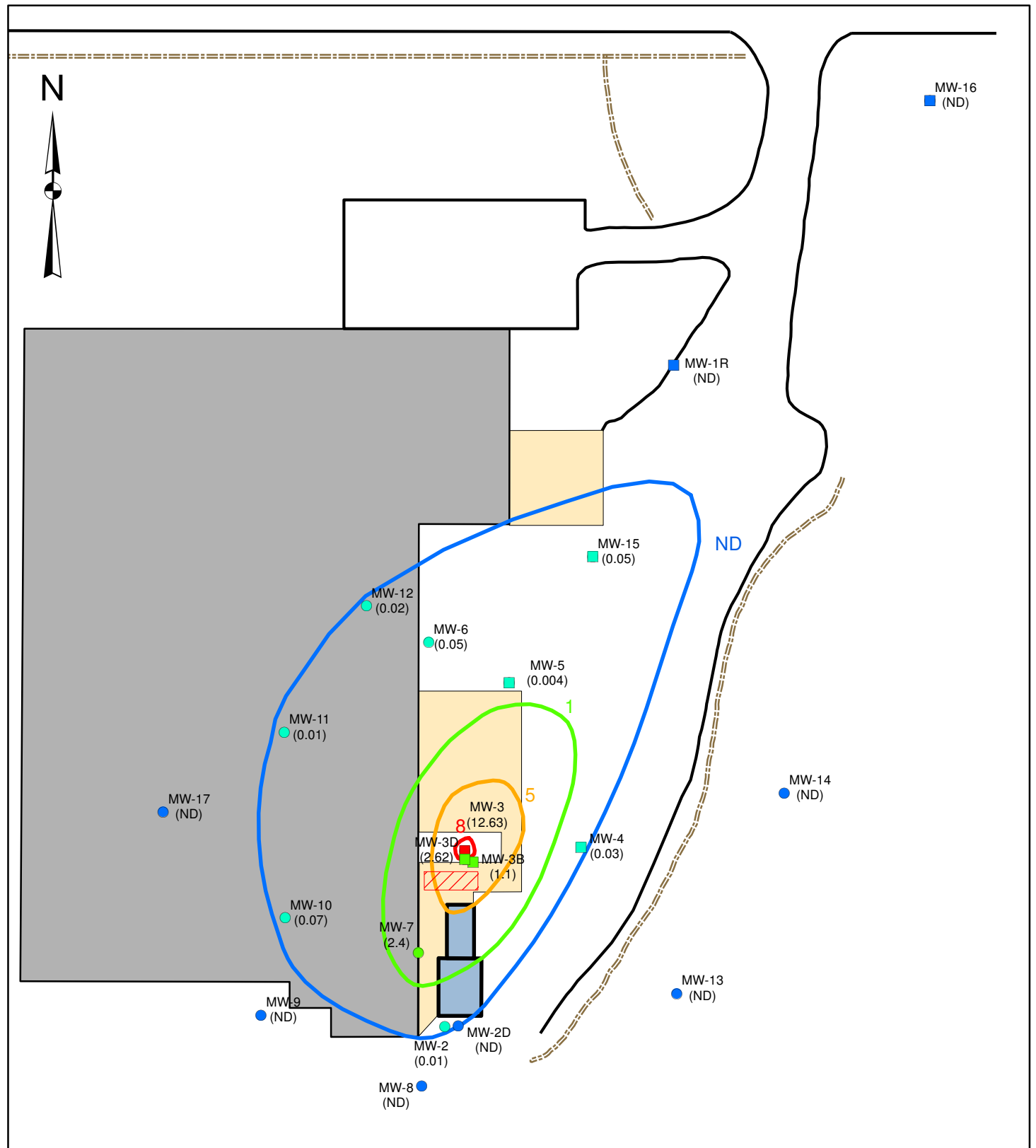
Legend

- Wells in Fully Saturated Zone
- ⊕ Monitoring Wells (depth to groundwater in feet)
- - - Dashed Lines Where Inferred

Soil Zones from High Water Tables

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

Capitol Adhesives Groundwater Total Chlorinated Ethenes* (February/August 2012)



0 50 100
Feet

Total VOCs* (mg/L)

- | | |
|---------|---------|
| ● ND | ● 3 - 5 |
| ● < 1 | ● 5 - 8 |
| ● 1 - 3 | ● > 8 |

Isopleth

- Location of 1995 Spill (approx)
- AST Containment
- Building
- Concrete Pad

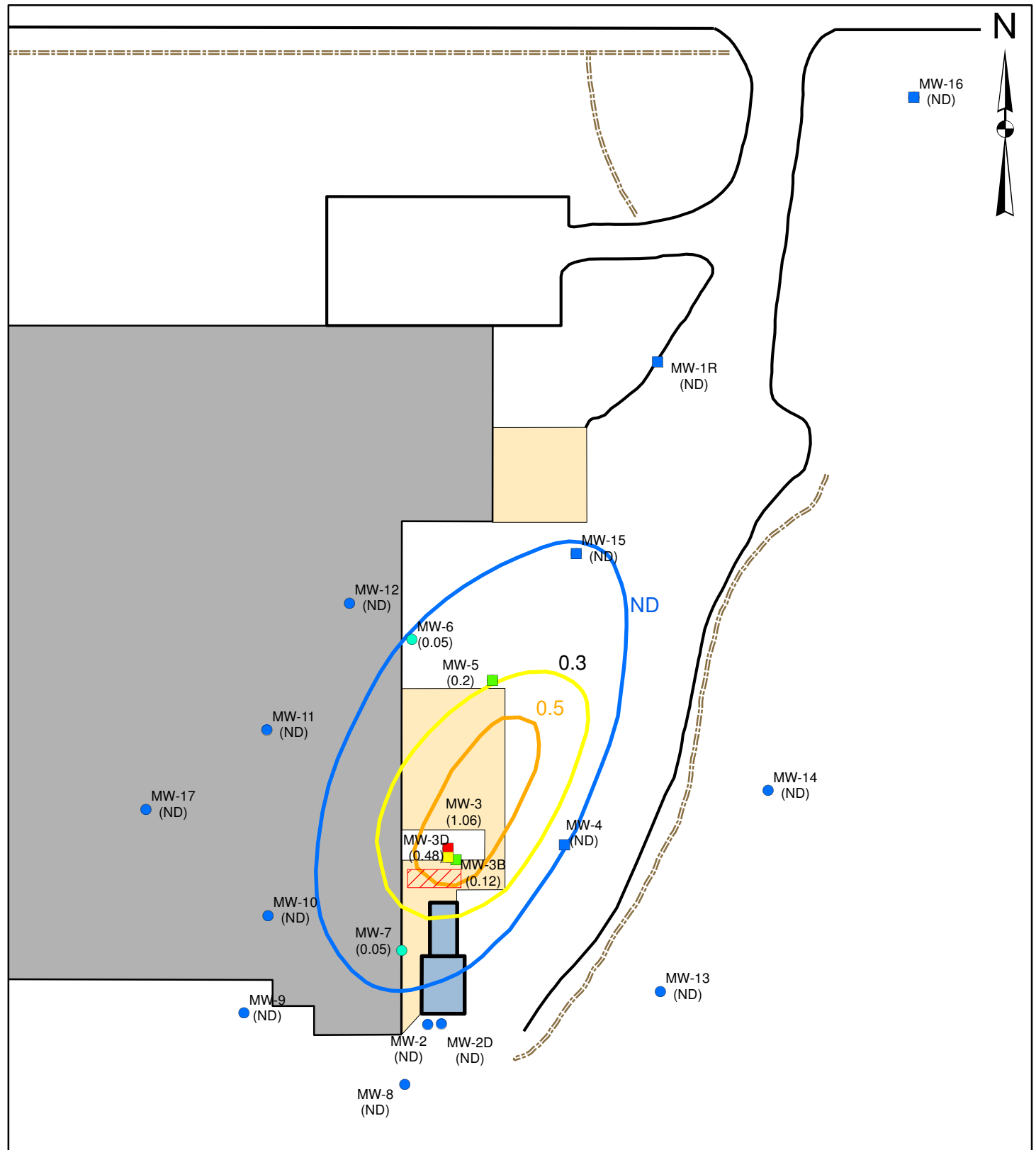
* Circles - Feb 2012 data Squares - Aug 2012 data
Chlorinated ethenes = PCE, TCE, DCE, and VC

EPS

G:\River Associates\Capitol Adhesives\VRP Program\Progress Reports\Oct 2012\GIS\CSMFig7_GWPCE.mxd

Figure No. B-7

Capitol Adhesives Groundwater Total Chlorinated Ethanes* (February/August 2012)



0 50 100
Feet

Total VOCs* (mg/L)

- | | |
|---------|---------|
| ● ND | ● 3 - 5 |
| ● < 1 | ● 5 - 8 |
| ● 1 - 3 | ● > 8 |

— Isopleth

- Location of 1995 Spill (approx)
- AST Containment
- Building
- Concrete Pad

* Circles - Feb 2012 data Squares - Aug 2012 data
Chlorinated ethanes = TCA, DCA, and CA

Figure B-9. MW-5 PCE Degradation Time Series

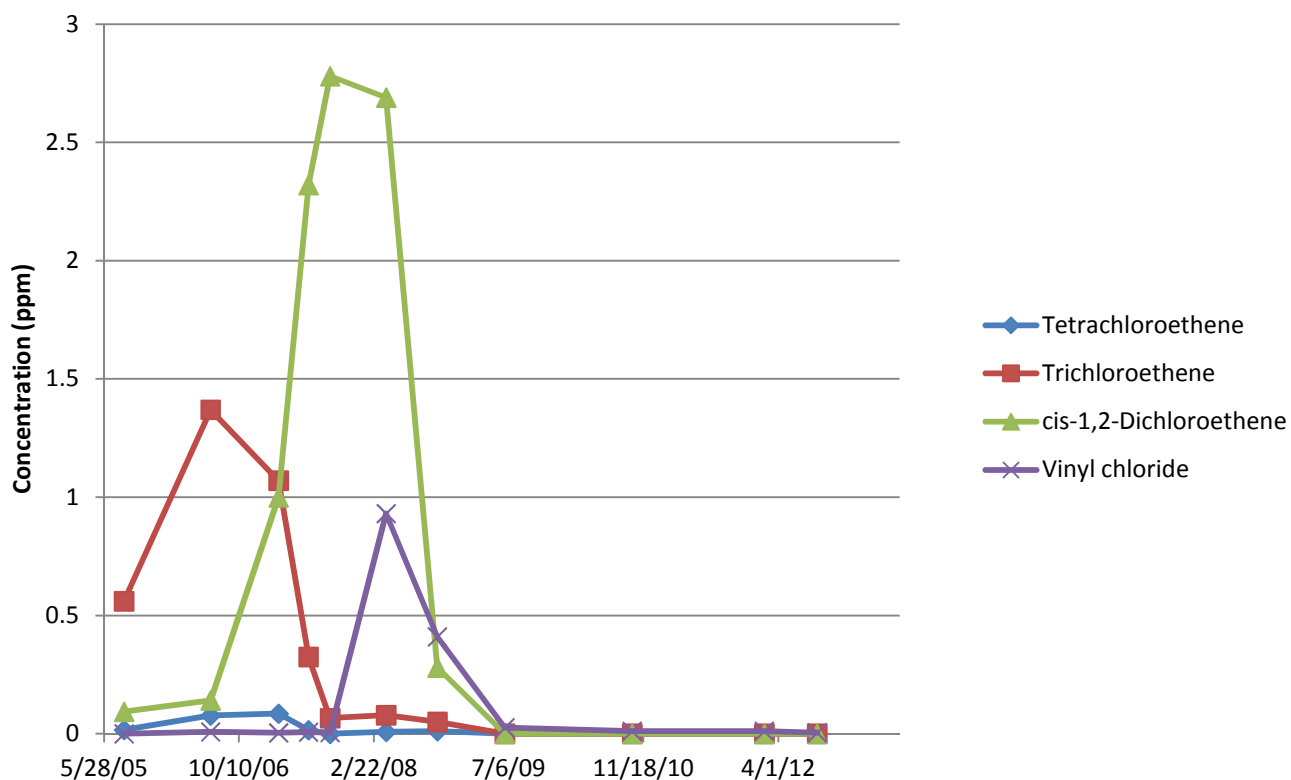
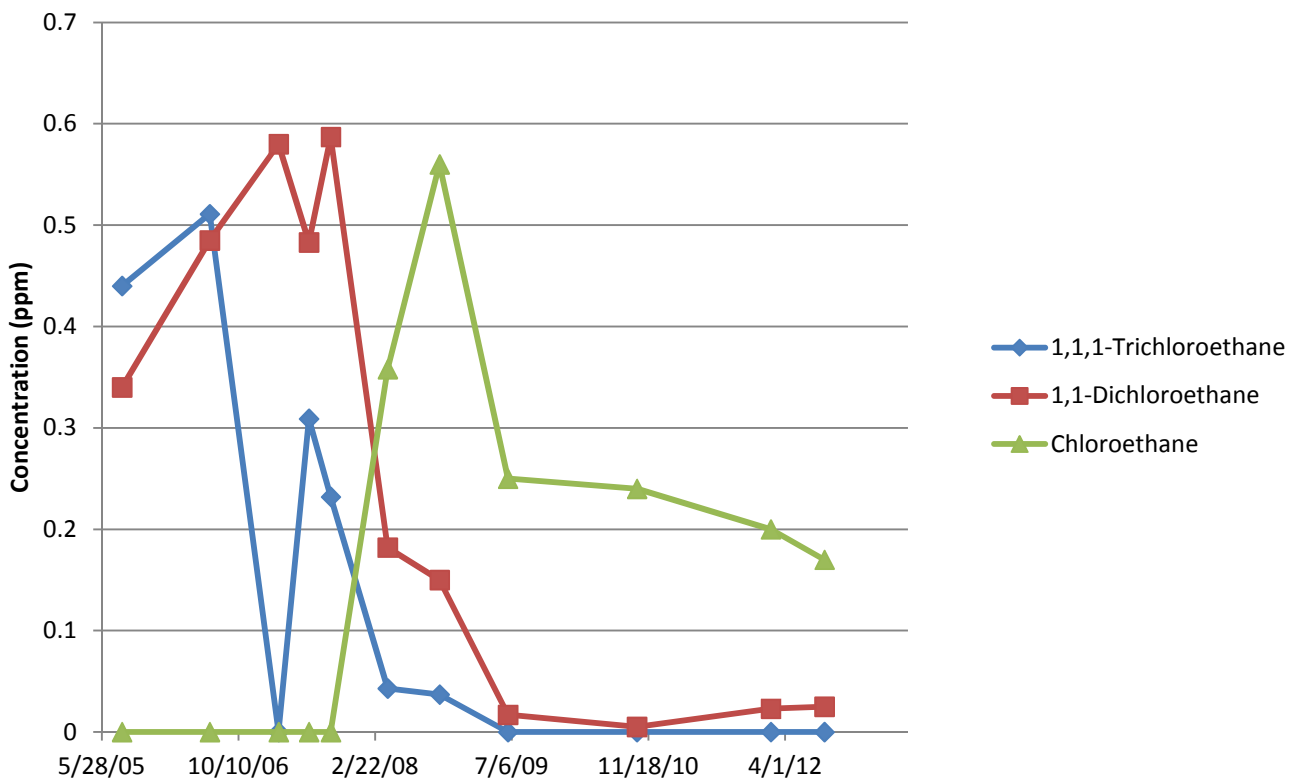
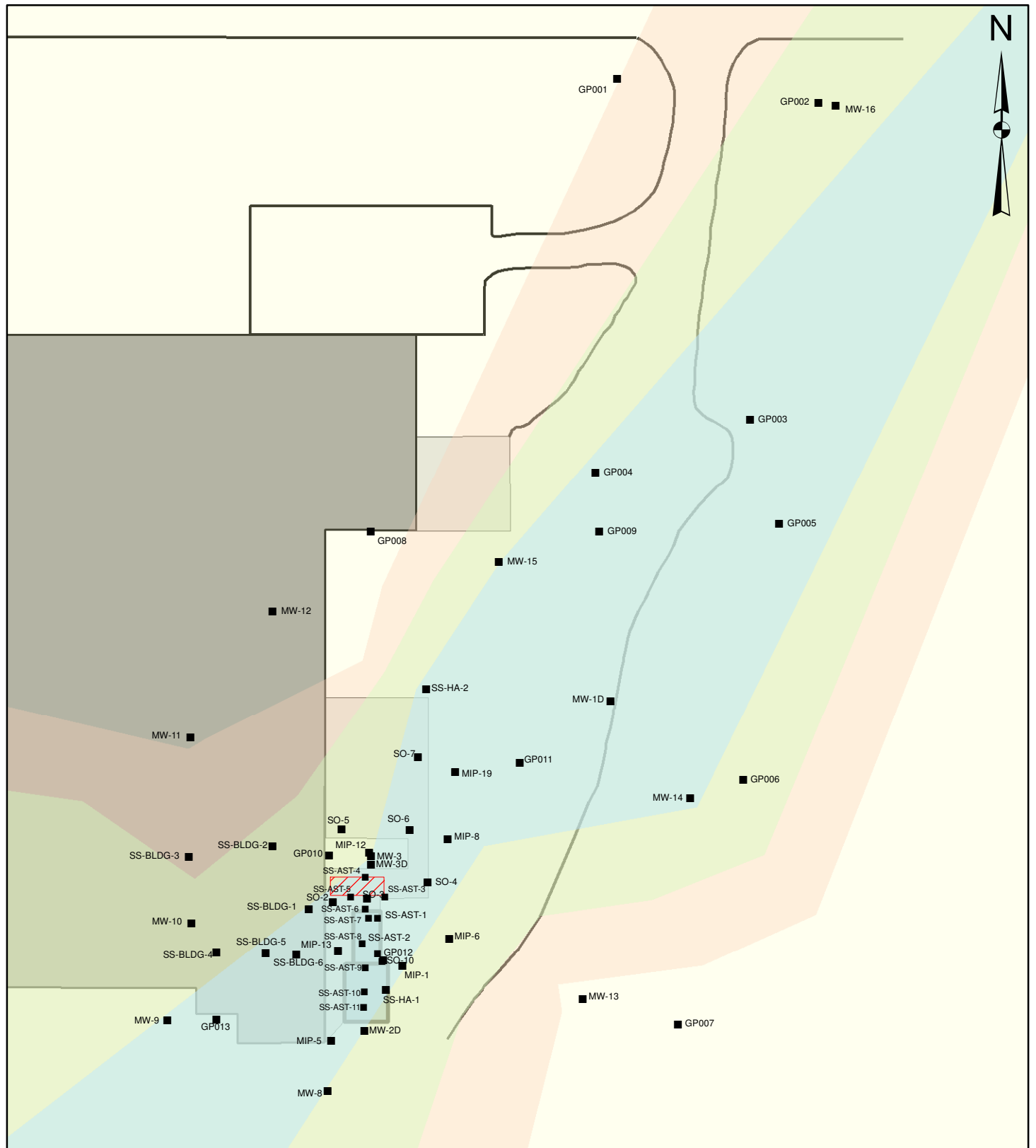


Figure B-10. MW-5 TCA Degradation Time Series



Capitol Adhesives Location of Solid Matrix Samples and Water Table Zones



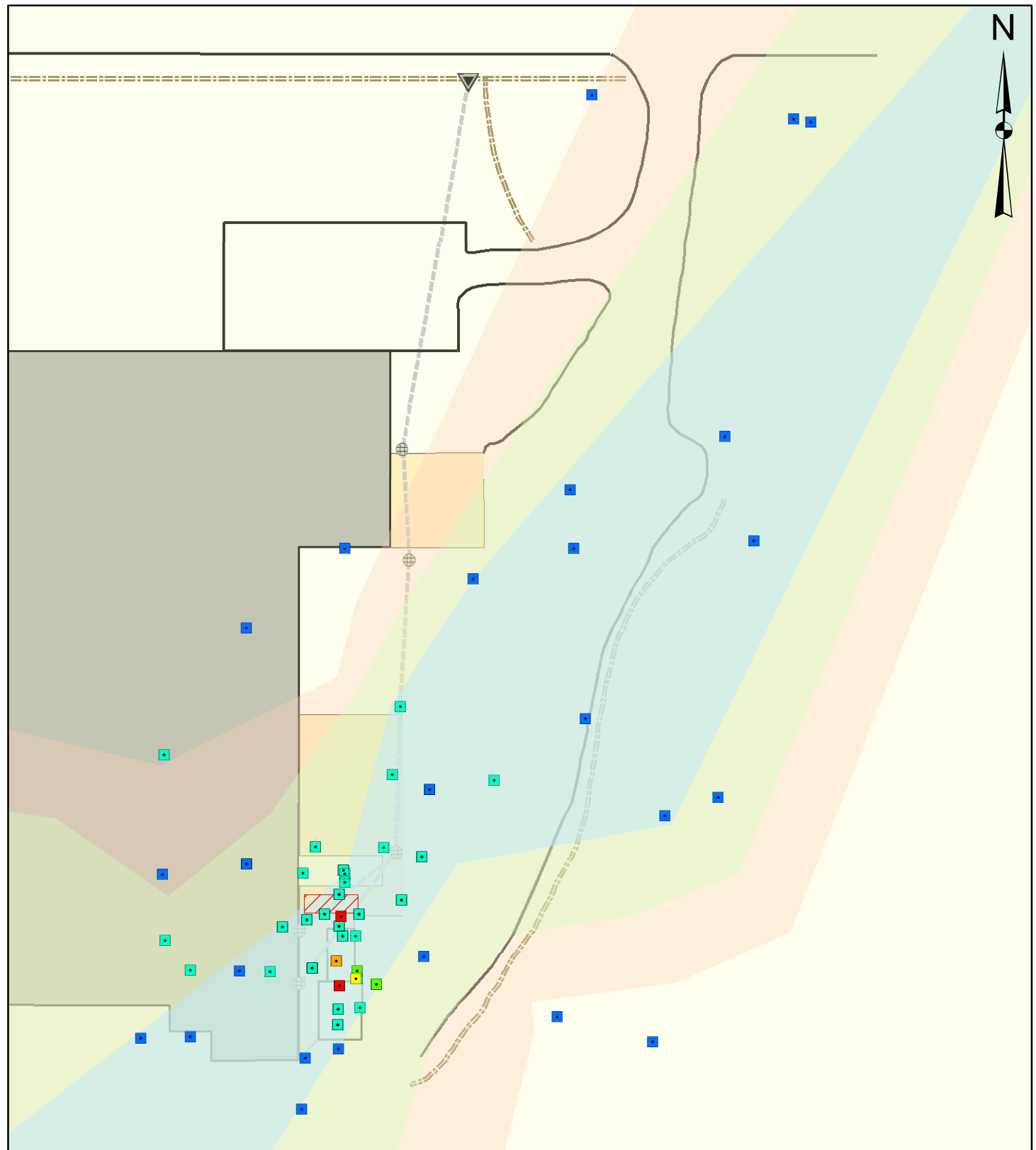
0 50 100
Feet

Soil Zone

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

- Location of Spill (approx)
- AST Containment
- Building
- Concrete Pad

Capitol Adhesives Total Chlorinated Ethenes* in Subsurface Solids



0 50 100
Feet

Total VOCs* (mg/kg)

- ND
- < 15
- 15 - 30
- 30 - 75
- 75 - 150
- > 150
- ▨ Location of 1995 Spill (approx)

Soil Zones

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

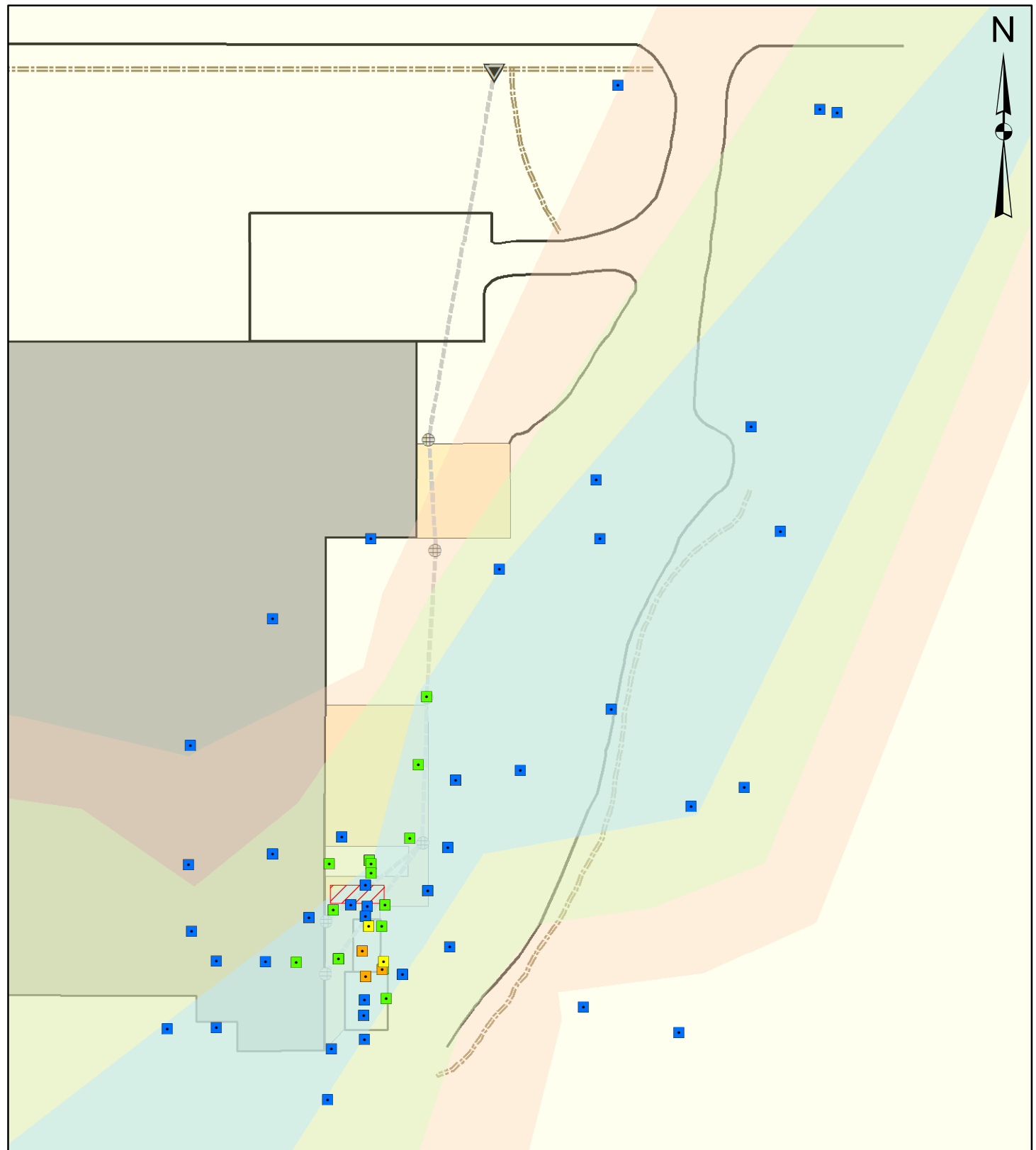
* Where multiple samples were collected, the maximum total VOC value is shown. Chlorinated ethenes = PCE, TCE, DCE, and VC

EPS

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Figure No. B-12

Capitol Adhesives Total Chlorinated Ethanes* in Subsurface Solids



0 50 100
Feet

Total VOCs* (mg/kg)

- ND
- < 1
- 1 - 5
- 5 - 20
- > 20

Location of 1995 Spill (approx)

Soil Zones

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone


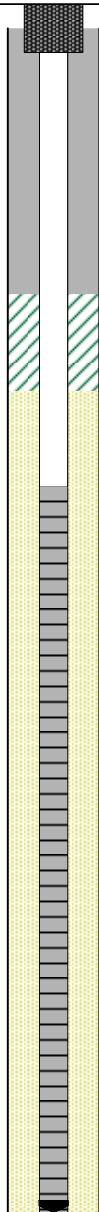

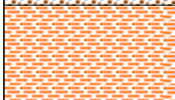
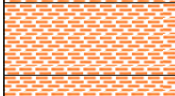












Squares represent solid aquifer matrix samples.
Circles represent vadose zone soil samples.

* Where multiple samples were collected, the maximum total VOC value is shown. Chlorinated ethanes = TCA, DCA and CA


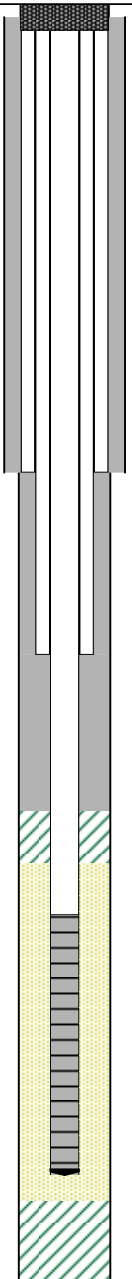
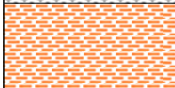



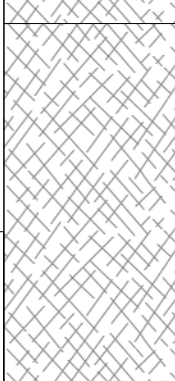
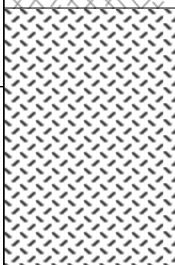
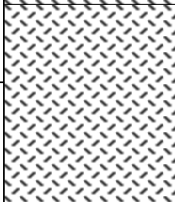
APPENDIX C

WELL CONSTRUCTION DIAGRAMS

PROJECT: Capitol Adhesives		Log of Boring No. MW-1R	
SITE LOCATION: Dalton, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: Geo-Lab		DATE STARTED: 8/20/12	DATE FINISHED: 8/20/12
DRILLING METHOD: Hollow Stem Auger		TOTAL DEPTH (ft.): 25	SCREEN INTERVAL (ft.): 10-25
DRILLING EQUIPMENT: CME-55		DEPTH TO WATER AT TIME OF BORING (ft.): ~15.5	CASING (ft.): 0-10
SAMPLING METHOD: None		LOGGED BY: J. Dennis	

DEPTH (feet)	SAMPLES		Drawdown Recovery (ft/min)	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS	
	Blows/ Foot			Ground Surface Elevation: N/A			
0	2-3-4-6			Topsoil (hand auger/auger cuttings)			Boring terminated at 25 ft bgs.
2				Tan sand (hand auger/auger cuttings)			
4				Tan orange clay (hand auger/auger cuttings)			
6				Brown sandy clay (split spoon)			
				Orange, tan, gray clay (split spoon)			
8	1-2-5-8						
10				Brown sandy clay (split spoon)			
				Gray clay (split spoon)			
12				Orange, tan, gray clay (split spoon)			
14	5-5-9-8						
16				Brown gray sandy clay (split spoon)			
				Tan weathered rock (flakey) (split spoon)			
				Tan clay with flakey rock (split spoon)			
18	1-2-5-5						
20				Brown gray sandy clay (split spoon)			
				Orange tan weathered rock (wet) (split spoon)			
22							
24	1-1-7-8						
26				tan weathered rock (saturated) (split spoon)			
				Tan, orange, red weathered rock (striated) (split spoon)			
28				Brown gray flakey rock (split spoon)			

PROJECT:	Capitol Adhesives	Log of Boring No. MW-3B	
SITE LOCATION:	Dalton, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR:	Geo-Lab	DATE STARTED: 8/20/12	DATE FINISHED: 8/22/12
DRILLING METHOD:	Hollow Stem Auger/Rock Hammer	TOTAL DEPTH (ft.): 49	SCREEN INTERVAL (ft.): 35-45
DRILLING EQUIPMENT:	CME-55	DEPTH TO WATER AT TIME OF BORING (ft.): ~10	CASING (ft.): 0-35
SAMPLING METHOD:	None	LOGGED BY: J. Dennis	

DEPTH (feet)	SAMPLES		Drawdown Recovery (ft/min)	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Blows/ Foot			Ground Surface Elevation: N/A		
0	4-3-3-3			Gravel (hand auger/auger cuttings)		
4				Orange clay with gravel (hand auger/auger cuttings)		
				Brown micaceous sandy clay (split spoon) Orange tan clay (split spoon)		
8						
12	1-3-4-6			Tan, orange, gray clay (split spoon)		Auger refusal at 18 ft bgs. Set 6 inch outer casing.
16	1-1-3-7		Tan orange clay (split spoon) Gray weathered rock (rock shards) (split spoon)			
20			Shale [weathered] (bedrock)			
24						
28	0.1					
32				Shale [competent]		Set 2 inch I.D. PVC well with 10-slot screen
36	0.4					
40						
44	0.1			Harder rock, possibly limestone		Bentonite plug at base
48						
52						Boring terminated at 49 ft bgs.

APPENDIX D

**GROUNDWATER LABORATORY DATA REPORT AND
WELL FORMS**



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 31, 2012

Timmerly Bullman
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Capitol Adhesives

Dear Timmerly Bullman:

Order No: 1208J49

Analytical Environmental Services, Inc. received 11 samples on 8/24/2012 3:45:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3785 Presidential Parkway, Atlanta GA 30340-3704

AFS TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 108549

Date: 8-24-12 Page 1 of 1

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS		No. of Containers	
SAMPLE ID		SIGNATURE:		PRESERVATION (See codes)		REMARKS		No. of Containers	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS	No. of Containers	
1	12236-MW-1R	8-23-12	1020	X		GW		3	
2	12236-MW-16	8-23-12	1610	X		GW		3	
3	12236-MW-15	8-23-12	1640	X		GW		3	
4	12236-MW-4	8-23-12	1740	X		GW		3	
5	12236-MW-5	8-23-12	1840	X		GW		3	
6	12237-MW-3D	8-24-12	945	X		GW		3	
7	12231-MW-3	8-24-12	1115	X		GW		3	
8	12237-MW-3B	8-24-12	1135	X		GW		3	
9	12237-Dup	8-24-12		X		GW		3	
10	12237-Rinsate	8-24-12	1150	X		GW		3	
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
1: JFD	8-24-12 1545	1: JFD	8/24/12 3:42	PROJECT NAME: Capital Adhesives	Total # of Containers 30
2: JFD		2: JFD		PROJECT #:	Turnaround Time Request
3: JFD		3: JFD		SITE ADDRESS: Dalton, GA	Standard 5 Business Days
				SEND REPORT TO: thullman@earthlink.net	2 Business Day Rush
				INVOICE TO:	Next Business Day Rush
				(IF DIFFERENT FROM ABOVE)	Same Day Rush (auth req.)
				QUOTE #:	Other
				PO#:	STATE PROGRAM (if any)
					E-mail? Y / N; Fax? Y / N
					DATA PACKAGE: I II III IV

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

Turnaround Time Request: ● ○ ○ ○ ○

Standard 5 Business Days
2 Business Day Rush
Next Business Day Rush
Same Day Rush (auth req.)
Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: OUT / / VIA: IN CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Environmental Planning Specialists, Inc.
Project: Capitol Adhesives
Lab ID: 1208J49

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-001

Client Sample ID: 12236-MW-1R
Collection Date: 8/23/2012 10:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,1-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,1-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,2-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 17:39	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 17:39	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 17:39	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 17:39	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 17:39	NP
Chloroform	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 17:39	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 17:39	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 17:39	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-001

Client Sample ID: 12236-MW-1R
Collection Date: 8/23/2012 10:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Trichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 17:39	NP
Vinyl chloride	BRL	2.0		ug/L	165773	1	08/29/2012 17:39	NP
Surr: 4-Bromofluorobenzene	94.6	67.4-123		%REC	165773	1	08/29/2012 17:39	NP
Surr: Dibromofluoromethane	113	75.5-128		%REC	165773	1	08/29/2012 17:39	NP
Surr: Toluene-d8	96.6	70-120		%REC	165773	1	08/29/2012 17:39	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-002

Client Sample ID: 12236-MW-16
Collection Date: 8/23/2012 4:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,1-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,1-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,2-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 06:23	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 06:23	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 06:23	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 06:23	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 06:23	NP
Chloroform	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 06:23	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 06:23	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 06:23	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-002

Client Sample ID: 12236-MW-16
Collection Date: 8/23/2012 4:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Trichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:23	NP
Vinyl chloride	BRL	2.0		ug/L	165773	1	08/29/2012 06:23	NP
Surr: 4-Bromofluorobenzene	98.5	67.4-123		%REC	165773	1	08/29/2012 06:23	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	165773	1	08/29/2012 06:23	NP
Surr: Toluene-d8	98.6	70-120		%REC	165773	1	08/29/2012 06:23	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-003

Client Sample ID: 12236-MW-15
Collection Date: 8/23/2012 4:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,1-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,1-Dichloroethene	16	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,2-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 06:52	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 06:52	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 06:52	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 06:52	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 06:52	NP
Chloroform	5.0	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 06:52	NP
cis-1,2-Dichloroethene	27	5.0		ug/L	165773	1	08/29/2012 06:52	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 06:52	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 06:52	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-003

Client Sample ID: 12236-MW-15
Collection Date: 8/23/2012 4:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Trichloroethene	17	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 06:52	NP
Vinyl chloride	5.4	2.0		ug/L	165773	1	08/29/2012 06:52	NP
Surr: 4-Bromofluorobenzene	91.3	67.4-123		%REC	165773	1	08/29/2012 06:52	NP
Surr: Dibromofluoromethane	113	75.5-128		%REC	165773	1	08/29/2012 06:52	NP
Surr: Toluene-d8	96.6	70-120		%REC	165773	1	08/29/2012 06:52	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-004

Client Sample ID: 12236-MW-4
Collection Date: 8/23/2012 5:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,1-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 07:20	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 07:20	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 07:20	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 07:20	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 07:20	NP
Chloroform	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 07:20	NP
cis-1,2-Dichloroethene	12	5.0		ug/L	165773	1	08/29/2012 07:20	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 07:20	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 07:20	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-004

Client Sample ID: 12236-MW-4
Collection Date: 8/23/2012 5:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Trichloroethene	13	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:20	NP
Vinyl chloride	5.8	2.0		ug/L	165773	1	08/29/2012 07:20	NP
Surr: 4-Bromofluorobenzene	97.5	67.4-123		%REC	165773	1	08/29/2012 07:20	NP
Surr: Dibromofluoromethane	108	75.5-128		%REC	165773	1	08/29/2012 07:20	NP
Surr: Toluene-d8	98	70-120		%REC	165773	1	08/29/2012 07:20	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-005

Client Sample ID: 12236-MW-5
Collection Date: 8/23/2012 6:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,1-Dichloroethane	25	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,1-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,2-Dichloroethane	8.5	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 19:06	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 19:06	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 19:06	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 19:06	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Chloroethane	170	10		ug/L	165773	1	08/29/2012 19:06	NP
Chloroform	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 19:06	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 19:06	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 19:06	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Methylene chloride	6.1	5.0		ug/L	165773	1	08/29/2012 19:06	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-005

Client Sample ID: 12236-MW-5
Collection Date: 8/23/2012 6:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
trans-1,2-Dichloroethene	14	5.0		ug/L	165773	1	08/29/2012 19:06	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Trichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:06	NP
Vinyl chloride	4.4	2.0		ug/L	165773	1	08/29/2012 19:06	NP
Surr: 4-Bromofluorobenzene	91	67.4-123		%REC	165773	1	08/29/2012 19:06	NP
Surr: Dibromofluoromethane	110	75.5-128		%REC	165773	1	08/29/2012 19:06	NP
Surr: Toluene-d8	94.9	70-120		%REC	165773	1	08/29/2012 19:06	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-006

Client Sample ID: 12237-MW-3D
Collection Date: 8/24/2012 9:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	300	50		ug/L	165773	10	08/29/2012 05:54	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,1,2-Trichloroethane	7.9	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,1-Dichloroethane	180	50		ug/L	165773	10	08/29/2012 05:54	NP
1,1-Dichloroethene	460	50		ug/L	165773	10	08/29/2012 05:54	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,2-Dichloroethane	240	50		ug/L	165773	10	08/29/2012 05:54	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 19:35	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 19:35	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 19:35	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 19:35	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 19:35	NP
Chloroform	230	50		ug/L	165773	10	08/29/2012 05:54	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 19:35	NP
cis-1,2-Dichloroethene	510	50		ug/L	165773	10	08/29/2012 05:54	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 19:35	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 19:35	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Methylene chloride	14	5.0		ug/L	165773	1	08/29/2012 19:35	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-006

Client Sample ID: 12237-MW-3D
Collection Date: 8/24/2012 9:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Tetrachloroethene	880	50		ug/L	165773	10	08/29/2012 05:54	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
trans-1,2-Dichloroethene	33	5.0		ug/L	165773	1	08/29/2012 19:35	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Trichloroethene	1100	50		ug/L	165773	10	08/29/2012 05:54	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 19:35	NP
Vinyl chloride	100	2.0		ug/L	165773	1	08/29/2012 19:35	NP
Surr: 4-Bromofluorobenzene	92.5	67.4-123		%REC	165773	1	08/29/2012 19:35	NP
Surr: 4-Bromofluorobenzene	92.9	67.4-123		%REC	165773	10	08/29/2012 05:54	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	165773	10	08/29/2012 05:54	NP
Surr: Dibromofluoromethane	115	75.5-128		%REC	165773	1	08/29/2012 19:35	NP
Surr: Toluene-d8	93.5	70-120		%REC	165773	10	08/29/2012 05:54	NP
Surr: Toluene-d8	96.2	70-120		%REC	165773	1	08/29/2012 19:35	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-007

Client Sample ID: 12237-MW-3
Collection Date: 8/24/2012 11:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	520	100		ug/L	165773	20	08/29/2012 04:57	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,1,2-Trichloroethane	47	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,1-Dichloroethane	540	100		ug/L	165773	20	08/29/2012 04:57	NP
1,1-Dichloroethene	3000	100		ug/L	165773	20	08/29/2012 04:57	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,2-Dichloroethane	1300	100		ug/L	165773	20	08/29/2012 04:57	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 20:04	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 20:04	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 20:04	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 20:04	NP
Benzene	13	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 20:04	NP
Chloroform	1800	100		ug/L	165773	20	08/29/2012 04:57	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 20:04	NP
cis-1,2-Dichloroethene	2900	100		ug/L	165773	20	08/29/2012 04:57	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 20:04	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 20:04	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Methylcyclohexane	6.8	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Methylene chloride	45	5.0		ug/L	165773	1	08/29/2012 20:04	NP
o-Xylene	5.2	5.0		ug/L	165773	1	08/29/2012 20:04	NP

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-007

Client Sample ID: 12237-MW-3
Collection Date: 8/24/2012 11:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Tetrachloroethene	3400	100		ug/L	165773	20	08/29/2012 04:57	NP
Toluene	7.2	5.0		ug/L	165773	1	08/29/2012 20:04	NP
trans-1,2-Dichloroethene	180	100		ug/L	165773	20	08/29/2012 04:57	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Trichloroethene	6100	250		ug/L	165773	50	08/29/2012 03:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 20:04	NP
Vinyl chloride	230	40		ug/L	165773	20	08/29/2012 04:57	NP
Surr: 4-Bromofluorobenzene	93.1	67.4-123		%REC	165773	50	08/29/2012 03:00	NP
Surr: 4-Bromofluorobenzene	94.5	67.4-123		%REC	165773	1	08/29/2012 20:04	NP
Surr: 4-Bromofluorobenzene	96.8	67.4-123		%REC	165773	20	08/29/2012 04:57	NP
Surr: Dibromofluoromethane	113	75.5-128		%REC	165773	20	08/29/2012 04:57	NP
Surr: Dibromofluoromethane	108	75.5-128		%REC	165773	50	08/29/2012 03:00	NP
Surr: Dibromofluoromethane	114	75.5-128		%REC	165773	1	08/29/2012 20:04	NP
Surr: Toluene-d8	96.5	70-120		%REC	165773	50	08/29/2012 03:00	NP
Surr: Toluene-d8	102	70-120		%REC	165773	1	08/29/2012 20:04	NP
Surr: Toluene-d8	98.7	70-120		%REC	165773	20	08/29/2012 04:57	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-008

Client Sample ID: 12237-MW-3B
Collection Date: 8/24/2012 11:35:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	40	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,1-Dichloroethane	75	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,1-Dichloroethene	170	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,2-Dichloroethane	40	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 18:09	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 18:09	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 18:09	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 18:09	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 18:09	NP
Chloroform	20	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 18:09	NP
cis-1,2-Dichloroethene	150	5.0		ug/L	165773	1	08/29/2012 18:09	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 18:09	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 18:09	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-008

Client Sample ID: 12237-MW-3B
Collection Date: 8/24/2012 11:35:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Tetrachloroethene	520	50		ug/L	165773	10	08/30/2012 12:35	JT
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
trans-1,2-Dichloroethene	8.9	5.0		ug/L	165773	1	08/29/2012 18:09	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Trichloroethene	370	50		ug/L	165773	10	08/30/2012 12:35	JT
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:09	NP
Vinyl chloride	61	2.0		ug/L	165773	1	08/29/2012 18:09	NP
Surr: 4-Bromofluorobenzene	85.1	67.4-123		%REC	165773	10	08/30/2012 12:35	JT
Surr: 4-Bromofluorobenzene	93.1	67.4-123		%REC	165773	1	08/29/2012 18:09	NP
Surr: Dibromofluoromethane	102	75.5-128		%REC	165773	10	08/30/2012 12:35	JT
Surr: Dibromofluoromethane	114	75.5-128		%REC	165773	1	08/29/2012 18:09	NP
Surr: Toluene-d8	95.7	70-120		%REC	165773	10	08/30/2012 12:35	JT
Surr: Toluene-d8	96	70-120		%REC	165773	1	08/29/2012 18:09	NP
BOD (5 day) (E405.1/SM5210B)								
Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-009

Client Sample ID: 12237-DUP
Collection Date: 8/24/2012
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	250	100		ug/L	165773	20	08/30/2012 12:05	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,1,2-Trichloroethane	7.5	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,1-Dichloroethane	180	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,1-Dichloroethene	490	100		ug/L	165773	20	08/30/2012 12:05	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,2-Dichloroethane	190	100		ug/L	165773	20	08/30/2012 12:05	JT
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 18:37	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 18:37	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 18:37	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 18:37	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 18:37	NP
Chloroform	230	100		ug/L	165773	20	08/30/2012 12:05	JT
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 18:37	NP
cis-1,2-Dichloroethene	450	100		ug/L	165773	20	08/30/2012 12:05	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 18:37	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 18:37	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Methylene chloride	14	5.0		ug/L	165773	1	08/29/2012 18:37	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	12237-DUP
Project Name:	Capitol Adhesives	Collection Date:	8/24/2012
Lab ID:	1208J49-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Tetrachloroethene	900	100		ug/L	165773	20	08/30/2012 12:05	JT
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
trans-1,2-Dichloroethene	32	5.0		ug/L	165773	1	08/29/2012 18:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Trichloroethene	1100	100		ug/L	165773	20	08/30/2012 12:05	JT
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 18:37	NP
Vinyl chloride	110	2.0		ug/L	165773	1	08/29/2012 18:37	NP
Surr: 4-Bromofluorobenzene	97.5	67.4-123		%REC	165773	1	08/29/2012 18:37	NP
Surr: 4-Bromofluorobenzene	84.6	67.4-123		%REC	165773	20	08/30/2012 12:05	JT
Surr: Dibromofluoromethane	103	75.5-128		%REC	165773	20	08/30/2012 12:05	JT
Surr: Dibromofluoromethane	110	75.5-128		%REC	165773	1	08/29/2012 18:37	NP
Surr: Toluene-d8	94.7	70-120		%REC	165773	1	08/29/2012 18:37	NP
Surr: Toluene-d8	93.3	70-120		%REC	165773	20	08/30/2012 12:05	JT

BOD (5 day) (E405.1/SM5210B)

Biochemical Oxygen Demand	BRL	5.0		mg/L	165632	1	08/24/2012 17:30	MG
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Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-010

Client Sample ID: 12237-RINSATE
Collection Date: 8/24/2012 11:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,1-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,1-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,2-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 07:50	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 07:50	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 07:50	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 07:50	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 07:50	NP
Chloroform	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 07:50	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 07:50	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 07:50	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-010

Client Sample ID: 12237-RINSATE
Collection Date: 8/24/2012 11:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Trichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 07:50	NP
Vinyl chloride	BRL	2.0		ug/L	165773	1	08/29/2012 07:50	NP
Surr: 4-Bromofluorobenzene	94.1	67.4-123		%REC	165773	1	08/29/2012 07:50	NP
Surr: Dibromofluoromethane	112	75.5-128		%REC	165773	1	08/29/2012 07:50	NP
Surr: Toluene-d8	98.6	70-120		%REC	165773	1	08/29/2012 07:50	NP

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1208J49-011

Client Sample ID: TRIP BLANK
Collection Date: 8/24/2012
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
2-Butanone	BRL	50		ug/L	165773	1	08/29/2012 03:58	NP
2-Hexanone	BRL	10		ug/L	165773	1	08/29/2012 03:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	165773	1	08/29/2012 03:58	NP
Acetone	BRL	50		ug/L	165773	1	08/29/2012 03:58	NP
Benzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Bromodichloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Bromoform	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Bromomethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Carbon disulfide	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Chlorobenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Chloroethane	BRL	10		ug/L	165773	1	08/29/2012 03:58	NP
Chloroform	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Chloromethane	BRL	10		ug/L	165773	1	08/29/2012 03:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Cyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Dibromochloromethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	165773	1	08/29/2012 03:58	NP
Ethylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Freon-113	BRL	10		ug/L	165773	1	08/29/2012 03:58	NP
Isopropylbenzene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
m,p-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Methyl acetate	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Methylcyclohexane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Methylene chloride	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
o-Xylene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Aug-12

Client:	Environmental Planning Specialists, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Capitol Adhesives	Collection Date:	8/24/2012
Lab ID:	1208J49-011	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Tetrachloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Toluene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Trichloroethene	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	165773	1	08/29/2012 03:58	NP
Vinyl chloride	BRL	2.0		ug/L	165773	1	08/29/2012 03:58	NP
Surr: 4-Bromofluorobenzene	99.8	67.4-123		%REC	165773	1	08/29/2012 03:58	NP
Surr: Dibromofluoromethane	103	75.5-128		%REC	165773	1	08/29/2012 03:58	NP
Surr: Toluene-d8	95.1	70-120		%REC	165773	1	08/29/2012 03:58	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EPS

Work Order Number 1208549

Checklist completed by [Signature] Date 08/24/2020
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3,7 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by [Signature]

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Environmental Planning Specialists, Inc.
Project: Capitol Adhesives
Lab Order: 1208J49

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1208J49-001A	12236-MW-1R	8/23/2012 10:20:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-001B	12236-MW-1R	8/23/2012 10:20:00AM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-002A	12236-MW-16	8/23/2012 4:10:00PM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-002B	12236-MW-16	8/23/2012 4:10:00PM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-003A	12236-MW-15	8/23/2012 4:40:00PM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-003B	12236-MW-15	8/23/2012 4:40:00PM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-004A	12236-MW-4	8/23/2012 5:40:00PM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-004B	12236-MW-4	8/23/2012 5:40:00PM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-005A	12236-MW-5	8/23/2012 6:40:00PM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-005B	12236-MW-5	8/23/2012 6:40:00PM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-006A	12237-MW-3D	8/24/2012 9:45:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-006B	12237-MW-3D	8/24/2012 9:45:00AM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-007A	12237-MW-3	8/24/2012 11:15:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-007B	12237-MW-3	8/24/2012 11:15:00AM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-008A	12237-MW-3B	8/24/2012 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-008A	12237-MW-3B	8/24/2012 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/30/2012
1208J49-008B	12237-MW-3B	8/24/2012 11:35:00AM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-009A	12237-DUP	8/24/2012 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-009A	12237-DUP	8/24/2012 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/30/2012
1208J49-009B	12237-DUP	8/24/2012 12:00:00AM	Groundwater	Biochemical Oxygen Demand (BOD)		08/24/2012	08/24/2012
1208J49-010A	12237-RINSATE	8/24/2012 11:50:00AM	Groundwater	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012
1208J49-011A	TRIP BLANK	8/24/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		08/29/2012	08/29/2012

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1208J49

ANALYTICAL QC SUMMARY REPORT**BatchID: 165632**

Sample ID: MB-165632	Client ID:				Units: mg/L		Prep Date: 08/24/2012		Run No: 227974		
SampleType: MBLK	TestCode: BOD (5 day) (E405.1/SM5210B)				BatchID: 165632		Analysis Date: 08/24/2012		Seq No: 4771921		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	BRL	0.2	0	0	0	0	0	0	0	0	

Sample ID: LCS-165632	Client ID:				Units: mg/L		Prep Date: 08/24/2012		Run No: 227974		
SampleType: LCS	TestCode: BOD (5 day) (E405.1/SM5210B)				BatchID: 165632		Analysis Date: 08/24/2012		Seq No: 4771932		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	197.3	5.0	198	0	99.6	85	115	0	0	0	

Sample ID: LCSD-165632	Client ID:				Units: mg/L		Prep Date: 08/24/2012		Run No: 227974		
SampleType: LCSD	TestCode: BOD (5 day) (E405.1/SM5210B)				BatchID: 165632		Analysis Date: 08/24/2012		Seq No: 4771933		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	205.8	5.0	198	0	104	85	115	197.3	4.22	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1208J49

ANALYTICAL QC SUMMARY REPORT**BatchID: 165773**

Sample ID: MB-165773		Client ID:				Units: ug/L		Prep Date: 08/29/2012		Run No: 227933	
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 165773		Analysis Date: 08/29/2012		Seq No: 4770672	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1208J49

ANALYTICAL QC SUMMARY REPORT**BatchID: 165773**

Sample ID: MB-165773		Client ID:				Units: ug/L		Prep Date: 08/29/2012		Run No: 227933	
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 165773		Analysis Date: 08/29/2012		Seq No: 4770672	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	47.81	0	50	0	95.6	67.4	123	0	0	0	
Surr: Dibromofluoromethane	58.47	0	50	0	117	75.5	128	0	0	0	
Surr: Toluene-d8	49.48	0	50	0	99	70	120	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1208J49

ANALYTICAL QC SUMMARY REPORT**BatchID: 165773**

Sample ID: LCS-165773	Client ID:					Units: ug/L	Prep Date: 08/29/2012	Run No: 227933			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 165773	Analysis Date: 08/29/2012	Seq No: 4770661			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	49.26	5.0	50	0	98.5	60	140	0	0	0	
Benzene	51.08	5.0	50	0	102	70	130	0	0	0	
Chlorobenzene	46.92	5.0	50	0	93.8	70	130	0	0	0	
Toluene	51.47	5.0	50	0	103	70	130	0	0	0	
Trichloroethene	52.26	5.0	50	0	105	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.01	0	50	0	100	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.31	0	50	0	105	75.5	128	0	0	0	
Surr: Toluene-d8	48.96	0	50	0	97.9	70	120	0	0	0	

Sample ID: 1208J49-007AMS	Client ID: 12237-MW-3	Units: ug/L			Prep Date: 08/29/2012	Run No: 227933					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 165773			Analysis Date: 08/29/2012	Seq No: 4770663					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	5306	250	2500	3042	90.6	50.1	179	0	0	0	
Benzene	2513	250	2500	0	101	61.2	150	0	0	0	
Chlorobenzene	2180	250	2500	0	87.2	72.1	140	0	0	0	
Toluene	2478	250	2500	0	99.1	58.7	154	0	0	0	
Trichloroethene	8749	250	2500	6113	105	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	2594	0	2500	0	104	67.4	123	0	0	0	
Surr: Dibromofluoromethane	2718	0	2500	0	109	75.5	128	0	0	0	
Surr: Toluene-d8	2552	0	2500	0	102	70	120	0	0	0	

Sample ID: 1208J49-007AMSD	Client ID: 12237-MW-3	Units: ug/L	Prep Date: 08/29/2012	Run No: 227933							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 165773	Analysis Date: 08/29/2012	Seq No: 4770666							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	5366	250	2500	3042	93	50.1	179	5306	1.12	23.3	
Benzene	2568	250	2500	0	103	61.2	150	2513	2.18	19	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1208J49

ANALYTICAL QC SUMMARY REPORT

BatchID: 165773

Sample ID: 1208J49-007AMSD	Client ID: 12237-MW-3	Units: ug/L	Prep Date: 08/29/2012	Run No: 227933							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 165773	Analysis Date: 08/29/2012	Seq No: 4770666							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	2277	250	2500	0	91.1	72.1	140	2180	4.38	21.5	
Toluene	2560	250	2500	0	102	58.7	154	2478	3.26	20	
Trichloroethene	8992	250	2500	6113	115	68.3	149	8749	2.73	17.7	
Surr: 4-Bromofluorobenzene	2599	0	2500	0	104	67.4	123	2594	0	0	
Surr: Dibromofluoromethane	2769	0	2500	0	111	75.5	128	2718	0	0	
Surr: Toluene-d8	2493	0	2500	0	99.7	70	120	2552	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 08/23/2012

Well ID: MW-1R

Field Conditions: clear, ~80°F

Sampling Performed By:

Ben Crowe / Jeff Dennis

Well Construction:

flush mount

Well Labeled: *no*

Well Cap: yes

Well Locked:

no

General Condition of Well:

Good

Well depth from TOC:

25.00

Condition of surrounding area:

good/gross

Well Diameter (in):

2 meh

Depth to Water from TOC:

3.78

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

Method of measure: WCM

21.22

Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")):

3. d o

Three Well Volumes (gal): 10.20

Purging Method:

downhole pump

Time @ Start of Purge: 0910

Sample Method:

direct

Sample Parameters: D_{OC} / BOD

[illegible]

Sample ID: _____

12236-MW-1R

Time Collected: 10:20

Technician Signature

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 8/23/12

Well ID: MW-16

Field Conditions: 85°F clear

Sampling Performed By:

Well Construction:

Well Labeled:

2" flysh point

yes Well Lo

General Condition of Well: good

Condition of surrounding area: *excellent*

Well depth from TOC:

Depth to Water from TOC: $\frac{5.46}{2.62}$

Well Diameter (in):

Method of measure: 22-47 w l.m

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

22.41

Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")):

Three Well Volumes (gal): 10.76

Purging Method:

Time @ Start of Purge: 13:50

Sample Method:

Sample Parameters: VOL, BOD

[illegible]

Sample ID: 12236-MW-110

Time Collected: 1610

Technician Signature [Signature]

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 8-23-12

Well ID: MW-15

Field Conditions: ~~55°F~~ 85°F clear

Sampling Performed By:

Well Construction:

Well Labeled: 40

Well Cap: 445

Well Locked:

General Condition of Well:

Condition of surrounding area:

Well depth from TOC:

Depth to Water from TOC:

Well Diameter (in):

Method of measure:

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

Volume of water in well (Ht. x(.16 for 2")(.653 for 4")(1.469 for 6"):

Purging Method:

Time @ Start of Purge:

Three Well Volumes (gal): 9.99

Sample Method:

Sample Parameters:

[illegible]

Sample ID: 17236-MW-15

Time Collected: 1640

Technician Signature

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 8-23-12

Well ID: MW-4

Field Conditions: 90°F clear

Sampling Performed By: Jeff Dennis / Ben Clowe

General Condition of Well:

Well Construction: 2" E/wk point

Well Labeled: ☒ Well Cap: ☒ Well Locked: ☒

Condition of surrounding area: gravel drive

Well depth from TOC: 9.68

Depth to Water from TOC: 2.62

Well Diameter (in): 2"

method of measure: W_{LM}

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

7.06

Volume of water in well (Ht. x(.16 for 2")(.653 for 4")(1.469 for 6")):

Three Well Volumes (gal): 3.39

Purging Method: *acid salt method*

@ Start of Purge: 11:30

Sample Method:

Sample Parameters: V_{OC} , B_{OD}

[illegible]

Sample ID: 12236-mw-4

Time Collected: 1740

Technician Signature [Signature]

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 8-23-12

Well ID: MW-5

Field Conditions: 90°F clear

Sampling Performed By:

Well Construction:

Well Labeled: 13

Well Cap: 1122

Well Locked:

General Condition of Well:

Condition of surrounding area:

Well depth from TOC:

Depth to Water from TOC:

Well Diameter (in):

Method of measure:

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

Volume of water in well (Ht. x(.16 for 2")(.653 for 4")(1.469 for 6"):

Purging Method:

Time @ Start of Purge:

Sample Method:

Sample Parameters:

[illegible]

Fe^{2+} : 2.2 mg/L

Sample ID: 12230-MW-5

Time Collected: 1840

Technician Signature

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 8-24-12

Well ID: MW-3D

Field Conditions: clear, ~70°F

Sampling Performed By: Ben Crowe / Jeff Dennis

Well Construction: flush mount

General Condition of Well: *good*

Well Labeled: *no*

Well Cap: yes

Well Locked: *no*

Condition of surrounding area: good / grass / gravel

Well depth from TOC:

31.81

Depth to Water from TOC: 5.25

Well Diameter (in):

2. incub

Method of measure: *1. L M*

Height (Ht) of water in well (Well depth from TOC - Static level from TOC):

$$1G_0 \leq G_0$$

Volume of water in well (Ht. x(.16 for 2")(.653 for 4")(1.469 for 6")):

2.65

Three Well Volumes (gal): 7.95

Purging Method:

low flow low stress

Time @ Start of Purge: 0:00

Sample Method:

Strong direct

Sample Parameters: 100g BOD₅

[illegible]

Sample ID: 12237-nw-3D

Time Collected: 0945

Technician Signature

Monitoring Well Sampling Form

EPS Project: Capitol Adhesives

Date: 8-24-12

Well ID: MW-3

Field Conditions: clear, ~70°F

Sampling Performed By: Ben Crowe / Jeff Dennis

Well Construction: Flush mount

General Condition of Well: good

Well Labeled: No

Well Cap: yes

Well Locked: No

Condition of surrounding area: good / grass / gravel

Well depth from TOC: 14.62

Depth to Water from TOC: 5.40

Well Diameter (in): 2 inches

Method of measure: WLM

Height (Ht) of water in well (Well depth from TOC - Static level from TOC): 9.22

Volume of water in well (Ht. x (.16 for 2") (.653 for 4") (1.469 for 6")): 1.48

Three Well Volumes (gal): 4.43

Purging Method: low flow, low stress

Time @ Start of Purge: 8:00

Sample Method: straw, direct

Sample Parameters: Vol, BOD

Time	Volume (gal)	Temp (oC)	pH	Cond. (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW	Comments
0832	2.00	22.11	6.69	0.531	1.38	175	210	6.37	
0842	2.75	21.90	6.67	0.527	1.56	156	205	6.42	slowed pump
0852	3.25	22.02	6.68	0.518	1.04	95.7	201	6.44	
0902	4.00	22.37	6.83	0.508	0.86	48.6	187	6.51	slowed pump
0912	4.75	22.65	6.84	0.503	0.77	38.4	183	6.49	
0920	5.25	22.97	6.84	0.498	0.79	36.4	181	6.51	
0930	5.75	23.42	6.86	0.491	0.68	25.7	178	6.53	
0940	6.00	23.98	6.86	0.485	0.65	25.1	178	6.55	
0950	6.50	24.90	6.85	0.475	0.60	24.0	173	6.60	slowed pump
1000	7.00	25.42	6.85	0.469	0.52	23.4	174	6.56	
1010	7.50	26.12	6.87	0.461	0.49	18.6	173	6.52	
1020	8.00	26.82	6.86	0.456	0.47	15.3	172	6.51	
1030	8.50	27.27	6.87	0.447	0.48	14.8	172	6.54	
1040	9.00	27.81	6.87	0.441	0.48	13.5	171	6.54	
1050	9.50	28.39	6.87	0.437	0.46	12.8	170	6.61	
1100	10.00	28.90	6.86	0.434	0.46	12.2	170	6.70	
1110	10.50	29.30	6.85	0.431	0.48	9.86	171	6.84	

P₀ (at) = 0.0 mg/L

Sample ID: 12237-MW-3

Time Collected: 1115

Technician Signature: 

APPENDIX E

AST SUBGRADE SAMPLING WORK PLAN

Prepared for:

CEA, LLC

633 Chestnut Street, Suite 1640
Chattanooga, TN 37450

**AST SOIL SAMPLING WORK PLAN
CAPITOL USA – DALTON FACILITY
Dalton, Georgia**

Prepared by:



1050 Crown Pointe Parkway, Suite 550
Atlanta, Georgia 30338
Tel: 404-315-9113

July, 2012

AST SOIL SAMPLING WORK PLAN CAPITOL USA – DALTON FACILITY Dalton, Georgia

Prepared For:

CEA, LLC
633 Chestnut Street, Suite 1640
Chattanooga, TN 37450

Prepared By:



1050 Crown Pointe Parkway
Suite 550
Atlanta, GA 30338

A handwritten signature in blue ink, reading "Kirk Kessler".

Kirk Kessler, P.G.
Principal

A handwritten signature in blue ink, reading "T. Bullman".

Timmerly Bullman, P.E.
Senior Environmental Engineer

July 2012

**AST SOIL SAMPLING WORK PLAN
CAPITOL USA – DALTON FACILITY
Dalton, Georgia
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Figure 2 Proposed Soil Sample Locations

LIST OF ATTACHMENTS

- Attachment A Product Data Sheet: Microrester Deepour VE
- Attachment B Health and Safety Plan

PROFESSIONAL GEOLOGIST CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

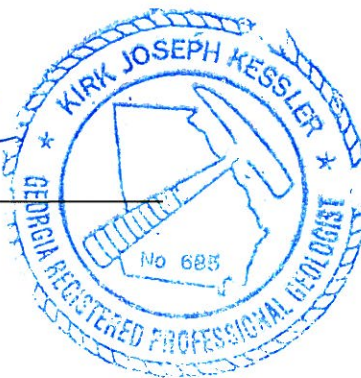
Kirk Kessler GA000685

Printed Name and GA PE/PG Number

7-3-2012

Date

Kirk Kessler
Signature and Stamp



1 INTRODUCTION

This work plan describes the proposed methodology that will be followed in performing a soil investigation under and near the aboveground storage tank (AST) containment area at the Capitol USA - Dalton Adhesives facility (Site) located at 300 Cross Plains Boulevard, Dalton, Georgia. The Site has been accepted into Georgia's Voluntary Remediation Program (VRP) to address environmental concerns at the Site related to a historical spill of reclaimed 1,1,1-trichloroethane (TCA) from a delivery truck. Reclaimed solvents contain a fairly higher proportion of other chemical products; therefore, it is believed that the material spilled from the tanker truck likely also contained tetrachloroethene (PCE) and trichloroethene (TCE). TCA, PCE, TCE and daughter products have been detected in soil and groundwater at the Site. The spill occurred just north of the AST containment area (see Figure 1) and although some soil cleanup was performed following the spill in 1995, this work was poorly documented and it is likely the more current assessment findings represent residual contamination from that spill event.

The site hydrogeologic setting is somewhat unique in that much of the area exhibits artesian conditions during high water table periods, and in other portions of the site the depth to the water table during these periods is quite shallow, on the order of 1 to 2 ft bgs. The term "solid aquifer matrix" is used in describing samples collected at depths below the high water-table mark, since this does not constitute "soil" under the Hazardous Site Response Act (HSRA) definition. Therefore Risk Reduction Standards (RRS) for soil do not apply to this situation, but rather the data are considered in the context of "source." The HSRA rules define the term source as follows:

391-3-19-.02(2)(y) Source material means any material that includes or contains regulated substances that act or may likely act as a reservoir for migration of regulated substances to groundwater, soil, surface water, or air, or acts as a source for direct exposure.

Sampling of solid aquifer matrix soil (at a depth of 1 foot below the ground surface, bgs) in this area has indicated a possible source of tetrachloroethene (PCE) in the soil.

HSRA does not provide a precise definition of source material in terms of a concentration threshold for a given chemical constituent. Some conclude that the term "reservoir" in the definition implies the presence of a free-phase liquid product, and with that the concept of residual saturation condition (i.e., Csat) is applicable as a threshold condition. This concept was discussed with representatives of the Georgia Environmental Protection Division (EPD) in proposing a remedial action plan for source material abatement, where EPD expressed some disagreement with Csat as the basis for source remediation (one of the past sample locations north of the AST exceeds the Csat condition). During these same meetings, the EPD requested characterization of the condition in the soil/aquifer matrix underneath the AST containment area. Accordingly this work plan has been prepared for the purpose of assessing the conditions across the AST footprint. It was decided from these meetings that the results of this investigation will be used in evaluating remedial action extent and measures to address source material at the Site.

2 INVESTIGATIVE APPROACH

2.1 Site Preparation

Prior to sample collection, the plant manager will be consulted to determine the location of any underground utilities in the areas to be sampled. In accordance with Georgia laws (i.e., Call Before You Dig and the Georgia High Voltage Safety Act) the Utilities Protection Center will be called (811 or 1-800-282-7411) to request underground locating service and to request safeguards for overhead electrical lines (if any).

If any liquids have accumulated in the AST containment basins, they will be pumped off prior to sampling. It is anticipated that the owner (QEP) will remove and handle disposal of the liquids.

2.2 Sample Locations

Figure 2 shows the proposed sample locations. Four sample locations are proposed in the area north of the AST containment area surrounding the past sample location that exceeded the Csat condition, and five sample locations are proposed within the AST containment area. The actual locations will be determined on-site to avoid physical obstructions and hazards. The highest chlorinated solvent concentrations at the Site have been observed at 3 feet bgs and less. Thus, two samples will be collected at each location: at 1 ft and 2 ft bgs.

2.3 Sampling Protocol

2.3.1 Concrete Coring

The proposed sample locations are beneath a concrete slab. Thus, a contractor will advance a hand-held concrete corer through the concrete slab using water as a lubricant to minimize friction, dust and potential sparks. The corer will be powered by a generator located on the contractor's truck. The concrete cores will be approximately 4 inches in diameter. A fan is to be run during the concrete coring to disperse any vapors that may be present. A portable gas analyzer (e.g., photoionization detector, PID) will be used to monitor the concentrations of volatile organic compounds (see Section 3).

Some water will accumulate during the concrete coring. The liquids will be pumped out of the containment area (if necessary) and stored in drums. A sample of the collected liquids will be sent to the laboratory for analysis. Liquids collected will be disposed of properly based on the results of the laboratory analysis.

2.3.2 Soil Sample Collection

Once the concrete core is removed, EPS personnel will advance hand augers through the underlying soil to the specified sample depths (1 ft and 2 ft bgs). EPS personnel will collect soil samples with decontaminated hand augers in accordance with EPA Region 4 Field Branches Quality System and Technical Procedures (Soil Sampling, SESDPROC-300-R2). Specifically, auger holes will be advanced one bucket at a time until the sample depth is achieved. When the sample depth is reached, the bucket used to advance the hole will be removed and a clean bucket will be attached. The clean auger bucket is then placed in the hole and filled with soil to make up the sample and removed. Because of the tendency for the auger bucket to scrape material from the sides of the auger hole while being extracted, samples will not be collected from the top several inches of soil in the auger bucket; the sample will be collected from the central part of the deepest portion of the auger bucket. Once the samples have been collected, the unused soil will be placed back into the open hole from which it came.

EPS personnel will place the samples in appropriate sample containers provided by the analytical laboratory, placed on ice in a cooler, logged under standard chain-of-custody procedures, and delivered to Analytical Environmental Services, Inc. in Norcross, Georgia for analysis.

2.4 Repair of Containment Basins

To maintain the integrity of the containment basin, a contractor (Blackwell) will fill the core holes with a vinyl ester polymer grout (Microrester Deepour VE, see Attachment A). This grout is a tenacious bonding material that very quickly develops a seal that is chemically resistant. This grout will not degrade (unlike a cementitious or epoxy patch) if subject to a chemical spill. The contractor will skim-coat an additional layer of fiberglass embedded with the grout over all plugged boreholes to transfer movement of dissimilar material (grout and concrete) around the hole perimeter to bridge any hairline cracks should one occur after placement.

2.5 Laboratory Analysis

The samples will be analyzed for TCA, PCE and their daughter products. Specifically, the samples will be analyzed using EPA Method 8260B for TCA, dichloroethane, chloroethane, PCE, TCE, cis-1,2-dichloroethene, and vinyl chloride.

3 HEALTH AND SAFETY

A Health and Safety Plan is included in Appendix B. Personal protective equipment will be used to reduce exposure to chemical hazards from collecting the soil samples. Although it is an unlikely occurrence, in order to minimize the possibility of a spark from the concrete coring igniting materials stored in the ASTs, the following safety measures will be utilized during concrete coring:

- Water will be used during the concrete coring to prevent sparks.
- A portable device that measures the level of volatile organic compounds (such as a photoionization detector, PID) will be used to monitor the concentrations of compounds in the air.
- A fan will be used to dilute the presence of any volatile compounds in the AST area.

4 QUALITY ASSURANCE

4.1 Overview

This section discusses the standard practices and procedures utilized during the field operations to ensure the collection of representative samples. The collection of representative samples depends upon:

- Ensuring that the sample is representative of the material or medium being sampled.
- Using proper sampling, sample handling, preservation, and quality control techniques.
- Properly identifying the collected samples and documenting their collection in permanent field records (field log books, chain-of-custody records).
- Maintaining sample chain-of-custody.

4.2 Sample Containers, Preservatives, and Holding Times

Sample containers, preservatives, and holding times will be selected in accordance with USEPA Region 4 FBQSTP. All sample containers (and preservatives, where required) for samples submitted for laboratory analyses will be provided by the laboratory. Containers will be new, pre-cleaned, or pre-baked as appropriate.

4.3 Sample Packing, Shipping and Documentation

4.3.1 Sample Packing

The samples obtained in this sampling event will be placed in shipping coolers with enough ice, freezer packs or dry ice to maintain a temperature of 4°C, and with sufficient bubble pack to prevent breakage during shipping. Temperature blanks provided by the laboratories will be placed in each cooler. All samples in a shipping container will be listed on the chain-of-custody form enclosed in the shipping container.

4.3.2 Sample Shipping

All samples will be shipped via courier service or hand delivered to the laboratory. A shipping document with a tracking number for the courier service will be completed for each shipment. The following day the laboratory will be contacted to verify the shipment was received in sound condition.

4.3.3 Sample Documentation

Documents for recording sampling events will include a daily field activity log, field measurement logs, and photographs as appropriate. Sample information to be included on sample labels, custody seals, and chain-of-custody forms is described below.

After sample collection, all sample containers will be labeled with an identification number that uniquely identifies the sample. The samples will be identified with a unique alpha-numeric identification that follows the format “YYDDD-Z” where:

- YY is the year the sample was taken;
- DDD is the Julian date of sample collection; and
- Z is the location designation.

Each sample container will have a sample label. The sample identification number will be logged in the field log book, along with the following information about the sampling event:

- Sampling personnel
- Date and time of collection
- Field sample location and depth
- Observations on ambient conditions
- Type of sampling (composite or grab)
- Method of sampling
- Sampling matrix or source
- Intended analyses.

Each sample container will be labeled with the following information: date and time of sample collection, unique sample number, project name and/or number, and sampler’s initials. Indelible ink will be used to record information on the sample label.

Chain-of-custody forms provide the documentation to trace sample possession from the time of sample collection until receipt by the laboratory. One chain-of-custody form will be filled out for each cooler or shipping container and will list all the samples contained in the cooler or container. One copy of the completed form will be placed in a plastic bag taped to the inside lid of the shipping container and one copy will be kept with the project files.

4.4 Decontamination

Decontamination of sampling equipment will take place at sampling locations or a central location. Equipment used for sampling will be decontaminated prior to each use and in accordance with the following cleaning procedures in accordance with the SESDPROC-205-R2 of the EPA Region 4 FBQSTP.

Clean, disposable gloves will be worn while handling sampling equipment or down-hole tools during the final stages of decontamination. Deionized water will be stored in high-density polyethylene (HDPE) containers and applied via HDPE squeeze bottles or decanted directly from their storage containers.

4.4.1 Soil Sampling Equipment

Hand auger buckets and hand auger rods will be decontaminated between each boring and prior to leaving the site.

- Clean equipment with brush and tap water and Luminox® detergent to remove particulate matter and surface films.
- Rinse thoroughly with tap water.
- Rinse thoroughly with organic-free water and place on a clean foil-wrapped surface to air-dry.
- All equipment must be wrapped with foil. If the equipment is to be stored overnight before it is wrapped in foil, it should be covered and secured with clean, unused plastic sheeting.

4.5 Equipment List

- Stainless steel bowls
- Hand auger rods and buckets

4.6 Supplies and Consumables

- PPE: nitrile gloves, steel toe boots, decon solutions (liquinox, deionized water)
- Consumables: Shipping tape, duct tape, sharpie/permanent markers, custody labels, COC forms, 2-gallon baggies, ice.

4.7 Document Control

The term document control, as it applies to field investigations, refers to the maintenance of project files. The following documents shall be placed in the project file:

- A copy of the approved work plan and supporting plans;
 - Original chain-of-custody records, bound field log books, and field forms;
 - Pertinent records obtained during the investigation;
 - A complete copy of the analytical data and memorandum transmitting analytical data;
 - Official correspondence received by or issued by the GaEPD relating to the investigation including records of telephone calls;
 - One copy of any reports or memoranda;
 - Any other relevant documents related to the investigation or follow-up activities.
- All study records, reports and formal documents will be retained during the lifecycle of the project. After completion of the project all document will be retained for a period of 10 years.

5 SAMPLE CUSTODY PROCEDURES

5.1 Overview

The possession of samples will be traceable from the time that they are collected until they are disposed by the analytical laboratory. The following custody procedures provide this means of sample tracking.

5.2 Sample Custody

A sample or other physical evidence is in custody if:

- It is in the field investigator's, transferee's, or lab technician's actual possession, or
- It is within the field investigator's, transferee's, or lab technician's view, after being in their physical possession, or
- It was in the field investigator's, transferee's, or lab technician's physical possession and then they secured it to prevent tampering, or
- It is placed in a designated secure area.

5.3 Laboratory Procedures

The selected laboratory will have established programs of sample custody that are designed to ensure that each sample is accounted for at all times. The objectives of the laboratory's sample custody program include:

- Unique identification of all samples, as appropriate for the data required;
- Analysis of the correct samples, and traceability to the appropriate records;
- Preservation of sample characteristics;
- Protection of samples from loss or damage;
- Documentation of any sample alteration (e.g., filtration, preservation), and;
- Establishing a record of sample integrity for legal purposes.

Standard Operating Procedures for sample custody protocol are maintained by the laboratory.

5.4 Chain-of-Custody Record

The field chain-of-custody record is used to record the custody of all samples or other physical evidence collected and maintained. This form shall not be used to document the collection of split samples where there is a legal requirement to provide a receipt for samples. The chain-of-custody record also serves as a sample logging mechanism for the analytical laboratory's sample custodian.

The type of information to be supplied on the field chain-of-custody record includes:

- Project number, project name and signatures of all samplers and/or the sampling team leader in the designated signature block.
- The sampling station number, date, and time of sample collection, grab or composite sample designation, and a brief description of the type of sample and the sampling location must be included on each line (each line shall contain only those samples collected at a specific location).
- The sampling team leader's name should be recorded in the right or left margin of the COC Record when samples collected by more than one sampling team are included on the same form.
- The total number of sample containers must be listed in the indicated space for each sample. The total number of individual containers must also be listed for each type of analysis under the indicated media or miscellaneous columns. Note that it is impossible to have more than one media type per sample. The type of container and required analyses should be circled as indicated on the Record.
- The field investigator (geologist) and subsequent transferee(s) must document the transfer of the samples listed on the Record in the spaces provided at the bottom of the Record. Both the person relinquishing the samples and the person receiving them must sign the form; the date and time that this occurred must be documented in the proper space on the Record. Usually, the last person receiving the samples or evidence should be a laboratory sample custodian.
- The remarks column at the bottom of the Record is used to record air bill numbers or registered or certified mail serial numbers.

Once the record is completed, it becomes an accountable document and must be maintained in the project file.

5.5 Field Custody

Field custody procedures are described below. Sample collection procedures concerning sample identification and documentation, field log book, sample containers, sample packing, and sample shipping are described.

The persons responsible for sample custody and a brief description of their duties are as follows:

- Laboratory Sample Custodian or Commercial Supplier - verifies that the bottlere is certified clean and arranges for bottlere shipment to field sampling personnel or the contractor's equipment shop.
- Field Team Leader - receives and stores bottlere that is shipped from a laboratory or a commercial supplier; relinquishes bottlere to field sampling personnel; and, initiates chain-of-custody from bottlere in storage.
- Field Staff - receive sample bottlere from laboratory, inspect bottlere for physical integrity; retain shipping invoice or packing list from shipping courier as documentation of transfer of bottlere; collect samples; retain bottlere and samples under custody until sample shipment; and, relinquish samples to shipping courier or to lab representative.
- Field Team Leader - verifies reported laboratory analyses to the sample chain-of-custody form; assures that chain-of-custody documentation is incorporated into the project file.

5.6 Transfer of Custody and Shipment

All samples will be accompanied by the chain-of-custody record. The original record will be placed in a plastic bag inside the secured shipping container if samples are shipped. A copy of the chain-of-custody record will be retained by the Field Team Leader. When transferring the possession of samples, the individual receiving the samples will sign, date, and note the time that they received the samples on the chain-of-custody record. This chain-of-custody record documents transfer of custody of samples from the field investigator to another person or to the laboratory. The original record will be sent to the Field Team Leader after the laboratory analyzes the sample. This copy will become a part of the project file.

Samples will be properly packaged for shipment and delivered to the designated laboratory for analyses. If the containers are not hand delivered to the laboratory, the shipping containers shall be secured by using strapping tape and custody seals. The custody seals shall be placed on the container so that it cannot be opened without breaking the seals. The seal shall be signed and dated by the field investigator.

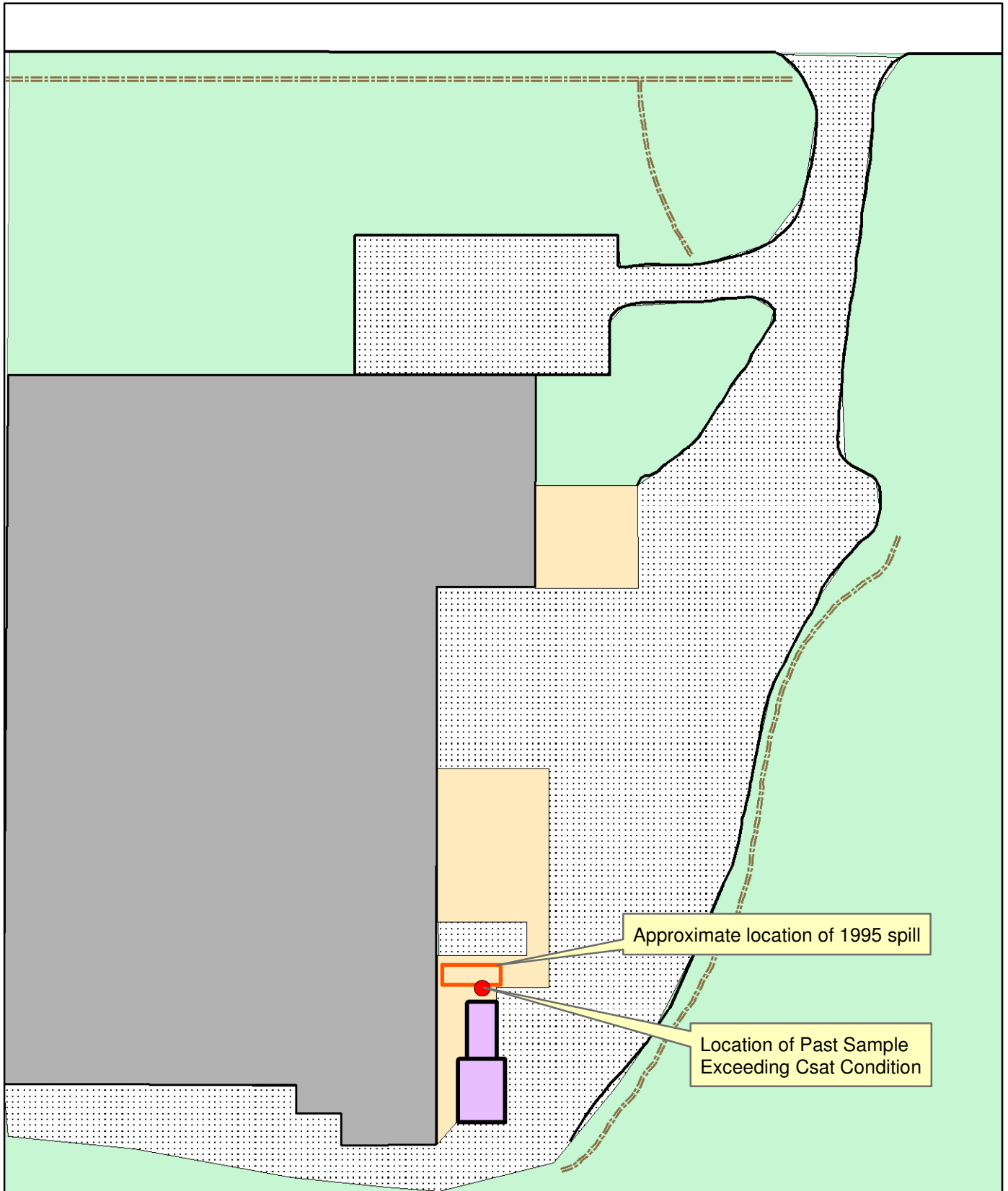
6 REFERENCES

US EPA Region IV Science and Ecosystem Support Division standard operating procedure for SoilSampling (SESDPROC-300-R2) December 2011.

US EPA Region IV Science and Ecosystem Support Division standard operating procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-205-R2) December 2011.

FIGURES

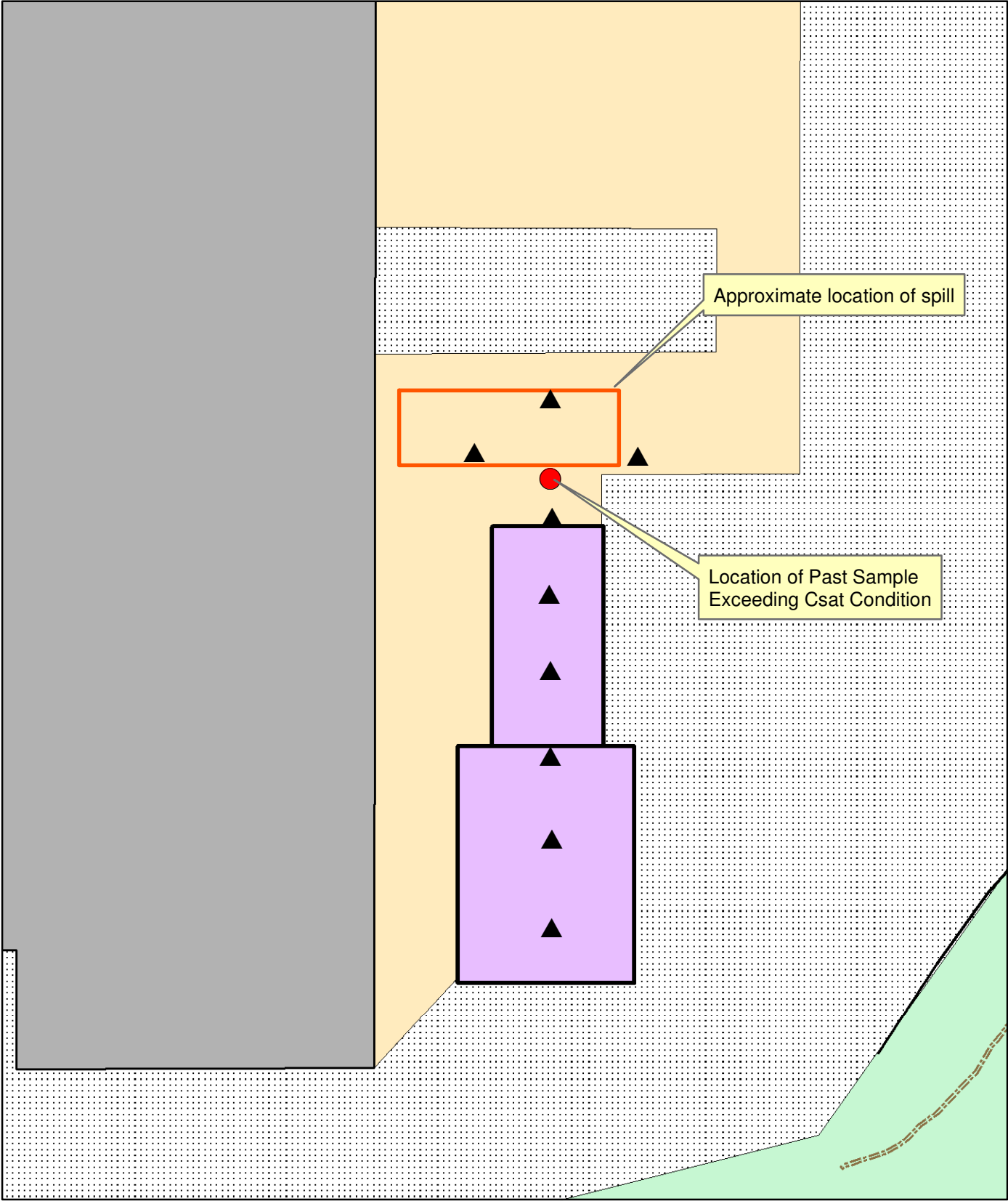
Site Features










Legend



Sample Locations



Legend

- | | | |
|---|--|---|
|  Past Sample Location |  Building |  Packed Gravel |
|  Proposed Sample Locations |  Concrete pad | |
|  AST Containment Area |  Grass | |

ATTACHMENT A
PRODUCT DATA SHEET
MICRORESTER DEEPOUR VE



PRODUCT DATA

MICORESTER® DEEPOUR VE

Advanced filler technology combined with vinyl ester resins, create a polymer grout with outstanding chemical resistance and physical properties. Available as a trowelable or pourable material MICORESTER® DEEPOUR VE conquers the toughest environments while eliminating many of the problems associated with vinylester materials.

USES:

- Chemical pump bases
- Secondary Containment
- Curbs and walls
- Slope or pitch floors
- Tank lining
- Floor repairs
- As a base for Micorester® HT Flooring

SAFETY NOTICE:

Read and understand the MSDS sheet before using **Deepour VE**.

Never use when food is present. The styrene odor will contaminate food products. **Adequate ventilation is imperative** to prevent fumes from contaminating foods in other areas.

IMPORTANT NOTE :

All Micor Vinyl Ester Systems are provided pre-premoted.

Deepour VE liquids are flammable during installation. Keep all potential sources of ignition a safe distance from uncured **Deepour VE**.

PHYSICAL PROPERTIES:

Compressive Strength	10,000-12,000 PSI
Tensile Strength	1,800 - 2,500 PSI
HDT	218°F +
Density	135 lbs/cubic ft

Chemical Resistance: See Micorester® HT-3 Chemical Resistance sheet for minimum resistance characteristics.

Pot Life varies with promotion level

FEATURES:

- Superior chemical and temperature resistance.
- Rapid Set Time (variable)
- Pourable or trowelable.
- Vibration and impact resistant.
- Unequaled physical properties.

PACKAGING:

Micorester® Deepour VE is packaged in 1/2 cubic ft. units containing the following materials.

- 1 cans Deepour VE Resin
- 1 bags Deepour VE Aggregate
- 1 bag Specially blended aggregate
- 1 container MEKP (Catalyst)
- 2 measuring cups

Deepour VE Sealer sold separately (Project Specific)

Specify trowelable or pourable when ordering. Use trowelable from 1/4"- 2" thickness. Use pourable from 1" to 8" thickness.

Deepour VE POURABLE contains specially blended aggregates.

Deepour VE TROWELABLE contains fine aggregates that allow the material to be "feather edged" when patching. When used to resurface entire floors, a minimum thickness of 3/8" should be observed.

APPLICATION INSTRUCTIONS:

ALWAYS READ AND UNDERSTAND THE M.S.D.S. SHEET AND LABEL WARNINGS.

Remove ignition sources from work area and insure proper ventilation.

To apply **Micorester® Deepour VE** observe the following instructions.

It is imperative that the substrate has been prepared in an adequate fashion. The bonding surface should be clean, dry and free of contamination such as grease, oil and chemicals.

1.) To the prepared substrate apply **PVE Primer** at a rate of 200 S.F. per gallon. Allow **PVE Primer** to air dry for approximately 1 1/2 hours before application of **Deepour VE**.

USE SUPPLIED MEASURING CUPS TO MEASURE THE MEKP (CATALYST).

3.) To one can of **Deepour VE** resin add 1 fl oz. MEKP (Catalyst) and mix again.

4.) Add the **Deepour VE liquids** to one bag of **Deepour** aggregate and mix until all of the aggregate is wet. Apply and finish with a steel trowel. PLEASE NOTE: Always catalyze the resin prior to the addition of the aggregate.

5.) After the placement of several batches, broadcast 3M roofing granules or silica aggregate on to the surface.

6.) Continue this procedure until the area being grouted is complete.

7.) After 3-4 hours, longer in lower temperature areas, sweep excess roofing granules or aggregate from the surface and apply **Deepour VE sealer**.

8.) To the **Deepour VE sealer** add 1.5 fl. oz. of MEKP (Catalyst) and 5 to 7 fluid oz of wax solution and mix again.

9.) Apply with 3/8" nap roller or squeegee at a rate that leaves the surface texture desired.

10.) Allow the **Deepour VE** to cure for 24 hours before returning service to the area.

COMPLIMENTARY INFORMATION:

Our full service lab and technical engineers are available to assist you. For complete information on all systems, contact your local Dealer or our factory at 1-800-284-4308.

LIMITED WARRANTY: Micor Company Inc. warrants to the original purchaser of its products that they are in conformance to the formulation standards of Micor Company, Inc. and that such products are free from manufacturing defects. Original purchaser's only remedy is replacement of the product. Micor does not warrant or guarantee the workmanship performed by any person or company installing its products. In no event shall Micor be liable for any incidental or consequential damages. This warranty is expressly given in lieu of all other warranties express or implied, including the warranties of merchantability and fitness for use and all other obligations or liabilities on Micor's part. Micor neither assumes nor authorizes any person or persons to assume for us any other liability in connection with the sale of Micor products. This warranty shall not apply to any of Micor's products which have been subject to alteration, abuse or misuse. Micor makes no warranty whatsoever in respect to parts, materials or accessories not supplied by Micor Co. which are used in connection with its products. The term "original purchaser" in this warranty applies to that person, company or corporation to which Micor Company Inc. sold its product or products. The original purchaser accepts these terms and conditions and hereby expressly waives any claim to additional damages.

CAUTION: Always keep out of the reach of children.

ATTACHMENT B
HEALTH AND SAFETY PLAN

APPENDIX F

AST SUBGRADE LABORATORY DATA REPORT



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 03, 2012

Gregg Henry
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

TEL: (404) 315-9113
FAX: (404) 315-8509

RE: Capitol Adhesives

Dear Gregg Henry:

Order No: 1207J08

Analytical Environmental Services, Inc. received 20 samples on 7/26/2012 4:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest
Project Manager

[illegible]



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1207068

Date: 7-25-12 Page 2 of 2

COMPANY: GD		ADDRESS: 1050 Crown Pointe Pkwy, ST 550		ANALYSIS REQUESTED		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 404 315 7113		FAX: ATL GA		PRESERVATION (See codes)		REMARKS			
SAMPLED BY: 5/16/12		SIGNATURE: <i>[Signature]</i>		DATE		TIME		Matrix	
#		SAMPLE ID		DATE		TIME		Grab	
1		12205-55-AST-10-1		7-23-12		1615		X	
2		12205-55-AST-10-2		7-23-12		1630		X	
3		12205-55-AST-11-1		7-23-12		1640		X	
4		12205-55-AST-11-2		7-23-12		1650		X	
5		12205-55-AST-DUP		7-23-12		---		X	
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION	
1: <i>[Signature]</i>		7/26/12 1630		1: <i>[Signature]</i>		7/26/12 4:30		PROJECT NAME: Capitol	
2: <i>[Signature]</i>				2: <i>[Signature]</i>				PROJECT #:	
3: <i>[Signature]</i>				3: <i>[Signature]</i>				SITE ADDRESS: DALTON GA	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO: gherry@aesatlanta.com		INVOICE TO:		TURNAROUND TIME REQUEST	
		OUT / / VIA:		(IF DIFFERENT FROM ABOVE)				Standard 5 Business Days	
		IN CLIENT FedEx UPS MAIL COURIER						2 Business Day Rush	
		OR BY HAND OTHER						Next Business Day Rush	
								Same Day Rush (auth req.)	
								Other	
								STATE PROGRAM (if any):	
								E-mail? Y/N; Fax? Y/N	
								DATA PACKAGE: I II III IV	
								QUOTE #:	
								PO#:	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Environmental Planning Specialists, Inc.
Project: Capitol Adhesives
Lab ID: 1207J08

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1207J08-011A, 012A, 013A & 014A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-001

Client Sample ID: 12205-SS-AST-3-1
Collection Date: 7/23/2012 11:30:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0030		mg/Kg-dry	164588	1	07/31/2012 12:10	JE
1,1-Dichloroethane	0.050	0.0030		mg/Kg-dry	164588	1	07/31/2012 12:10	JE
Chloroethane	BRL	0.0061		mg/Kg-dry	164588	1	07/31/2012 12:10	JE
cis-1,2-Dichloroethene	3.6	0.16		mg/Kg-dry	164601	50	08/01/2012 00:56	NP
Tetrachloroethene	0.11	0.0030		mg/Kg-dry	164588	1	07/31/2012 12:10	JE
Trichloroethene	0.058	0.0030		mg/Kg-dry	164588	1	07/31/2012 12:10	JE
Vinyl chloride	0.042	0.0061		mg/Kg-dry	164588	1	07/31/2012 12:10	JE
Surr: 4-Bromofluorobenzene	109	56.5-134		%REC	164588	1	07/31/2012 12:10	JE
Surr: 4-Bromofluorobenzene	102	56.5-134		%REC	164601	50	08/01/2012 00:56	NP
Surr: Dibromofluoromethane	101	71.8-135		%REC	164588	1	07/31/2012 12:10	JE
Surr: Dibromofluoromethane	96	71.8-135		%REC	164601	50	08/01/2012 00:56	NP
Surr: Toluene-d8	112	77.1-117		%REC	164588	1	07/31/2012 12:10	JE
Surr: Toluene-d8	97.4	77.1-117		%REC	164601	50	08/01/2012 00:56	NP
PERCENT MOISTURE D2216								
Percent Moisture	15.3	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-002

Client Sample ID: 12205-SS-AST-3-2
Collection Date: 7/23/2012 11:35:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0032		mg/Kg-dry	164588	1	07/31/2012 12:35	JE
1,1-Dichloroethane	0.075	0.0032		mg/Kg-dry	164588	1	07/31/2012 12:35	JE
Chloroethane	BRL	0.0064		mg/Kg-dry	164588	1	07/31/2012 12:35	JE
cis-1,2-Dichloroethene	3.3	0.17		mg/Kg-dry	164601	50	08/01/2012 01:25	NP
Tetrachloroethene	0.35	0.17		mg/Kg-dry	164601	50	08/01/2012 01:25	NP
Trichloroethene	0.18	0.17		mg/Kg-dry	164601	50	08/01/2012 01:25	NP
Vinyl chloride	0.081	0.0064		mg/Kg-dry	164588	1	07/31/2012 12:35	JE
Surr: 4-Bromofluorobenzene	101	56.5-134		%REC	164588	1	07/31/2012 12:35	JE
Surr: 4-Bromofluorobenzene	94.7	56.5-134		%REC	164601	50	08/01/2012 01:25	NP
Surr: Dibromofluoromethane	107	71.8-135		%REC	164588	1	07/31/2012 12:35	JE
Surr: Dibromofluoromethane	95.4	71.8-135		%REC	164601	50	08/01/2012 01:25	NP
Surr: Toluene-d8	108	77.1-117		%REC	164588	1	07/31/2012 12:35	JE
Surr: Toluene-d8	96.2	77.1-117		%REC	164601	50	08/01/2012 01:25	NP
PERCENT MOISTURE D2216								
Percent Moisture	17.3	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-003

Client Sample ID: 12205-SS-AST-4-1
Collection Date: 7/23/2012 11:50:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0028		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
1,1-Dichloroethane	BRL	0.0028		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
Chloroethane	BRL	0.0056		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
cis-1,2-Dichloroethene	0.0031	0.0028		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
Tetrachloroethene	0.0047	0.0028		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
Trichloroethene	BRL	0.0028		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
Vinyl chloride	BRL	0.0056		mg/Kg-dry	164588	1	07/31/2012 13:00	JE
Surr: 4-Bromofluorobenzene	97.2	56.5-134		%REC	164588	1	07/31/2012 13:00	JE
Surr: Dibromofluoromethane	105	71.8-135		%REC	164588	1	07/31/2012 13:00	JE
Surr: Toluene-d8	95.7	77.1-117		%REC	164588	1	07/31/2012 13:00	JE
PERCENT MOISTURE D2216								
Percent Moisture	11.9	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-004

Client Sample ID: 12205-SS-AST-4-2
Collection Date: 7/23/2012 11:55:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
1,1-Dichloroethane	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
Chloroethane	BRL	0.0066		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
cis-1,2-Dichloroethene	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
Tetrachloroethene	0.0042	0.0033		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
Trichloroethene	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
Vinyl chloride	BRL	0.0066		mg/Kg-dry	164588	1	07/31/2012 13:30	JE
Surr: 4-Bromofluorobenzene	96.7	56.5-134		%REC	164588	1	07/31/2012 13:30	JE
Surr: Dibromofluoromethane	102	71.8-135		%REC	164588	1	07/31/2012 13:30	JE
Surr: Toluene-d8	97.7	77.1-117		%REC	164588	1	07/31/2012 13:30	JE
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-005

Client Sample ID: 12205-SS-AST-5-1
Collection Date: 7/23/2012 12:10:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0027		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
1,1-Dichloroethane	BRL	0.0027		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
Chloroethane	BRL	0.0055		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
cis-1,2-Dichloroethene	BRL	0.0027		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
Tetrachloroethene	0.0039	0.0027		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
Trichloroethene	BRL	0.0027		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
Vinyl chloride	BRL	0.0055		mg/Kg-dry	164588	1	07/31/2012 13:56	JE
Surr: 4-Bromofluorobenzene	97.4	56.5-134		%REC	164588	1	07/31/2012 13:56	JE
Surr: Dibromofluoromethane	106	71.8-135		%REC	164588	1	07/31/2012 13:56	JE
Surr: Toluene-d8	97.6	77.1-117		%REC	164588	1	07/31/2012 13:56	JE
PERCENT MOISTURE D2216								
Percent Moisture	11.8	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-006

Client Sample ID: 12205-SS-AST-5-2
Collection Date: 7/23/2012 12:15:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0032		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
1,1-Dichloroethane	BRL	0.0032		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
Chloroethane	BRL	0.0064		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
cis-1,2-Dichloroethene	0.0083	0.0032		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
Tetrachloroethene	0.011	0.0032		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
Trichloroethene	BRL	0.0032		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
Vinyl chloride	BRL	0.0064		mg/Kg-dry	164588	1	07/31/2012 14:24	JE
Surr: 4-Bromofluorobenzene	98	56.5-134		%REC	164588	1	07/31/2012 14:24	JE
Surr: Dibromofluoromethane	106	71.8-135		%REC	164588	1	07/31/2012 14:24	JE
Surr: Toluene-d8	99	77.1-117		%REC	164588	1	07/31/2012 14:24	JE
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-007

Client Sample ID: 12205-SS-AST-6-1
Collection Date: 7/23/2012 12:30:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	0.0035	0.0028		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
1,1-Dichloroethane	BRL	0.0028		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
Chloroethane	BRL	0.0057		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
cis-1,2-Dichloroethene	0.011	0.0028		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
Tetrachloroethene	0.039	0.0028		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
Trichloroethene	0.0088	0.0028		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
Vinyl chloride	BRL	0.0057		mg/Kg-dry	164588	1	07/31/2012 14:49	JE
Surr: 4-Bromofluorobenzene	97.6	56.5-134		%REC	164588	1	07/31/2012 14:49	JE
Surr: Dibromofluoromethane	105	71.8-135		%REC	164588	1	07/31/2012 14:49	JE
Surr: Toluene-d8	101	77.1-117		%REC	164588	1	07/31/2012 14:49	JE
PERCENT MOISTURE D2216								
Percent Moisture	12.1	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-008

Client Sample ID: 12205-SS-AST-6-2
Collection Date: 7/23/2012 12:35:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
1,1-Dichloroethane	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
Chloroethane	BRL	0.0066		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
cis-1,2-Dichloroethene	0.0077	0.0033		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
Tetrachloroethene	0.047	0.0033		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
Trichloroethene	0.011	0.0033		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
Vinyl chloride	BRL	0.0066		mg/Kg-dry	164588	1	07/31/2012 15:14	JE
Surr: 4-Bromofluorobenzene	97.3	56.5-134		%REC	164588	1	07/31/2012 15:14	JE
Surr: Dibromofluoromethane	102	71.8-135		%REC	164588	1	07/31/2012 15:14	JE
Surr: Toluene-d8	99.4	77.1-117		%REC	164588	1	07/31/2012 15:14	JE
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-009

Client Sample ID: 12205-SS-AST-7-1
Collection Date: 7/23/2012 2:20:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0030		mg/Kg-dry	164588	1	07/31/2012 15:39	JE
1,1-Dichloroethane	0.62	0.17		mg/Kg-dry	164601	50	08/01/2012 01:54	NP
Chloroethane	0.070	0.0061		mg/Kg-dry	164588	1	07/31/2012 15:39	JE
cis-1,2-Dichloroethene	1.9	0.17		mg/Kg-dry	164601	50	08/01/2012 01:54	NP
Tetrachloroethene	0.013	0.0030		mg/Kg-dry	164588	1	07/31/2012 15:39	JE
Trichloroethene	0.0096	0.0030		mg/Kg-dry	164588	1	07/31/2012 15:39	JE
Vinyl chloride	0.24	0.17		mg/Kg-dry	164601	50	08/01/2012 01:54	NP
Surr: 4-Bromofluorobenzene	98.5	56.5-134		%REC	164588	1	07/31/2012 15:39	JE
Surr: 4-Bromofluorobenzene	93.9	56.5-134		%REC	164601	50	08/01/2012 01:54	NP
Surr: Dibromofluoromethane	105	71.8-135		%REC	164588	1	07/31/2012 15:39	JE
Surr: Dibromofluoromethane	97.5	71.8-135		%REC	164601	50	08/01/2012 01:54	NP
Surr: Toluene-d8	96.3	77.1-117		%REC	164588	1	07/31/2012 15:39	JE
Surr: Toluene-d8	94.3	77.1-117		%REC	164601	50	08/01/2012 01:54	NP
PERCENT MOISTURE D2216								
Percent Moisture	12.5	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-010

Client Sample ID: 12205-SS-AST-7-2
Collection Date: 7/23/2012 2:30:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0031		mg/Kg-dry	164588	1	07/31/2012 16:04	JE
1,1-Dichloroethane	1.2	0.20		mg/Kg-dry	164601	50	08/01/2012 02:23	NP
Chloroethane	0.037	0.0062		mg/Kg-dry	164588	1	07/31/2012 16:04	JE
cis-1,2-Dichloroethene	2.0	0.20		mg/Kg-dry	164601	50	08/01/2012 02:23	NP
Tetrachloroethene	0.014	0.0031		mg/Kg-dry	164588	1	07/31/2012 16:04	JE
Trichloroethene	0.0086	0.0031		mg/Kg-dry	164588	1	07/31/2012 16:04	JE
Vinyl chloride	0.31	0.20		mg/Kg-dry	164601	50	08/01/2012 02:23	NP
Surr: 4-Bromofluorobenzene	96.7	56.5-134		%REC	164588	1	07/31/2012 16:04	JE
Surr: 4-Bromofluorobenzene	91.4	56.5-134		%REC	164601	50	08/01/2012 02:23	NP
Surr: Dibromofluoromethane	104	71.8-135		%REC	164588	1	07/31/2012 16:04	JE
Surr: Dibromofluoromethane	99.1	71.8-135		%REC	164601	50	08/01/2012 02:23	NP
Surr: Toluene-d8	102	77.1-117		%REC	164588	1	07/31/2012 16:04	JE
Surr: Toluene-d8	92.6	77.1-117		%REC	164601	50	08/01/2012 02:23	NP
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-011

Client Sample ID: 12205-SS-AST-8-1
Collection Date: 7/23/2012 2:50:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	66	1.7		mg/Kg-dry	164601	500	08/01/2012 03:50	NP
1,1-Dichloroethane	6.8	1.7		mg/Kg-dry	164601	500	08/01/2012 03:50	NP
Chloroethane	BRL	3.4		mg/Kg-dry	164601	500	08/01/2012 03:50	NP
cis-1,2-Dichloroethene	11	1.7		mg/Kg-dry	164601	500	08/01/2012 03:50	NP
Tetrachloroethene	64	17		mg/Kg-dry	164601	5000	08/01/2012 12:19	NP
Trichloroethene	58	1.7		mg/Kg-dry	164601	500	08/01/2012 03:50	NP
Vinyl chloride	BRL	3.4		mg/Kg-dry	164601	500	08/01/2012 03:50	NP
Surr: 4-Bromofluorobenzene	89.9	56.5-134		%REC	164601	500	08/01/2012 03:50	NP
Surr: 4-Bromofluorobenzene	91.8	56.5-134		%REC	164601	5000	08/01/2012 12:19	NP
Surr: Dibromofluoromethane	102	71.8-135		%REC	164601	500	08/01/2012 03:50	NP
Surr: Dibromofluoromethane	109	71.8-135		%REC	164601	5000	08/01/2012 12:19	NP
Surr: Toluene-d8	94.1	77.1-117		%REC	164601	500	08/01/2012 03:50	NP
Surr: Toluene-d8	95.2	77.1-117		%REC	164601	5000	08/01/2012 12:19	NP
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-012

Client Sample ID: 12205-SS-AST-8-2
Collection Date: 7/23/2012 3:00:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	4.7	1.6		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
1,1-Dichloroethane	8.7	1.6		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
Chloroethane	BRL	3.2		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
cis-1,2-Dichloroethene	6.2	1.6		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
Tetrachloroethene	6.5	1.6		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
Trichloroethene	13	1.6		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
Vinyl chloride	BRL	3.2		mg/Kg-dry	164601	500	08/01/2012 04:19	NP
Surr: 4-Bromofluorobenzene	93.3	56.5-134		%REC	164601	500	08/01/2012 04:19	NP
Surr: Dibromofluoromethane	104	71.8-135		%REC	164601	500	08/01/2012 04:19	NP
Surr: Toluene-d8	94.9	77.1-117		%REC	164601	500	08/01/2012 04:19	NP
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-013

Client Sample ID: 12205-SS-AST-9-1
Collection Date: 7/23/2012 3:30:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	2.1	1.5		mg/Kg-dry	164601	500	08/01/2012 04:48	NP
1,1-Dichloroethane	1.5	1.5		mg/Kg-dry	164601	500	08/01/2012 04:48	NP
Chloroethane	BRL	3.0		mg/Kg-dry	164601	500	08/01/2012 04:48	NP
cis-1,2-Dichloroethene	66	30		mg/Kg-dry	164601	10000	08/01/2012 13:17	NP
Tetrachloroethene	380	30		mg/Kg-dry	164601	10000	08/01/2012 13:17	NP
Trichloroethene	34	1.5		mg/Kg-dry	164601	500	08/01/2012 04:48	NP
Vinyl chloride	BRL	3.0		mg/Kg-dry	164601	500	08/01/2012 04:48	NP
Surr: 4-Bromofluorobenzene	94.6	56.5-134		%REC	164601	500	08/01/2012 04:48	NP
Surr: 4-Bromofluorobenzene	90.1	56.5-134		%REC	164601	10000	08/01/2012 13:17	NP
Surr: Dibromofluoromethane	95.6	71.8-135		%REC	164601	500	08/01/2012 04:48	NP
Surr: Dibromofluoromethane	113	71.8-135		%REC	164601	10000	08/01/2012 13:17	NP
Surr: Toluene-d8	96.6	77.1-117		%REC	164601	500	08/01/2012 04:48	NP
Surr: Toluene-d8	97.8	77.1-117		%REC	164601	10000	08/01/2012 13:17	NP
PERCENT MOISTURE D2216								
Percent Moisture	18.6	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-014

Client Sample ID: 12205-SS-AST-9-2
Collection Date: 7/23/2012 3:40:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	15	1.9		mg/Kg-dry	164601	500	08/01/2012 05:17	NP
1,1-Dichloroethane	2.1	1.9		mg/Kg-dry	164601	500	08/01/2012 05:17	NP
Chloroethane	BRL	3.7		mg/Kg-dry	164601	500	08/01/2012 05:17	NP
cis-1,2-Dichloroethene	55	37		mg/Kg-dry	164601	10000	08/01/2012 12:48	NP
Tetrachloroethene	660	37		mg/Kg-dry	164601	10000	08/01/2012 12:48	NP
Trichloroethene	97	37		mg/Kg-dry	164601	10000	08/01/2012 12:48	NP
Vinyl chloride	BRL	3.7		mg/Kg-dry	164601	500	08/01/2012 05:17	NP
Surr: 4-Bromofluorobenzene	106	56.5-134		%REC	164601	500	08/01/2012 05:17	NP
Surr: 4-Bromofluorobenzene	93.9	56.5-134		%REC	164601	10000	08/01/2012 12:48	NP
Surr: Dibromofluoromethane	96.9	71.8-135		%REC	164601	500	08/01/2012 05:17	NP
Surr: Dibromofluoromethane	109	71.8-135		%REC	164601	10000	08/01/2012 12:48	NP
Surr: Toluene-d8	94.9	77.1-117		%REC	164601	500	08/01/2012 05:17	NP
Surr: Toluene-d8	96.1	77.1-117		%REC	164601	10000	08/01/2012 12:48	NP
PERCENT MOISTURE D2216								
Percent Moisture	19.6	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-015

Client Sample ID: 12205-SS-AST-10-1
Collection Date: 7/23/2012 4:15:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0029		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
1,1-Dichloroethane	BRL	0.0029		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
Chloroethane	BRL	0.0057		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
cis-1,2-Dichloroethene	0.0040	0.0029		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
Tetrachloroethene	0.0054	0.0029		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
Trichloroethene	BRL	0.0029		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
Vinyl chloride	BRL	0.0057		mg/Kg-dry	164588	1	08/01/2012 15:40	JE
Surr: 4-Bromofluorobenzene	97.8	56.5-134		%REC	164588	1	08/01/2012 15:40	JE
Surr: Dibromofluoromethane	96.8	71.8-135		%REC	164588	1	08/01/2012 15:40	JE
Surr: Toluene-d8	102	77.1-117		%REC	164588	1	08/01/2012 15:40	JE
PERCENT MOISTURE D2216								
Percent Moisture	16.9	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-016

Client Sample ID: 12205-SS-AST-10-2
Collection Date: 7/23/2012 4:30:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
1,1-Dichloroethane	BRL	0.0033		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
Chloroethane	BRL	0.0067		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
cis-1,2-Dichloroethene	0.013	0.0033		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
Tetrachloroethene	0.020	0.0033		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
Trichloroethene	0.010	0.0033		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
Vinyl chloride	BRL	0.0067		mg/Kg-dry	164588	1	07/31/2012 18:44	JE
Surr: 4-Bromofluorobenzene	98.9	56.5-134		%REC	164588	1	07/31/2012 18:44	JE
Surr: Dibromofluoromethane	99.7	71.8-135		%REC	164588	1	07/31/2012 18:44	JE
Surr: Toluene-d8	99.5	77.1-117		%REC	164588	1	07/31/2012 18:44	JE
PERCENT MOISTURE D2216								
Percent Moisture	18.4	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-017

Client Sample ID: 12205-SS-AST-11-1
Collection Date: 7/23/2012 4:40:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0028		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
1,1-Dichloroethane	0.0043	0.0028		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
Chloroethane	BRL	0.0057		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
cis-1,2-Dichloroethene	0.0066	0.0028		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
Tetrachloroethene	0.0095	0.0028		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
Trichloroethene	0.0061	0.0028		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
Vinyl chloride	BRL	0.0057		mg/Kg-dry	164588	1	07/31/2012 19:17	JE
Surr: 4-Bromofluorobenzene	96.4	56.5-134		%REC	164588	1	07/31/2012 19:17	JE
Surr: Dibromofluoromethane	102	71.8-135		%REC	164588	1	07/31/2012 19:17	JE
Surr: Toluene-d8	105	77.1-117		%REC	164588	1	07/31/2012 19:17	JE
PERCENT MOISTURE D2216								
Percent Moisture	18.1	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-018

Client Sample ID: 12205-SS-AST-11-2
Collection Date: 7/23/2012 4:50:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0034		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
1,1-Dichloroethane	BRL	0.0034		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
Chloroethane	BRL	0.0067		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
cis-1,2-Dichloroethene	0.0091	0.0034		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
Tetrachloroethene	0.013	0.0034		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
Trichloroethene	0.0080	0.0034		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
Vinyl chloride	BRL	0.0067		mg/Kg-dry	164588	1	07/31/2012 20:11	JE
Surr: 4-Bromofluorobenzene	99.2	56.5-134		%REC	164588	1	07/31/2012 20:11	JE
Surr: Dibromofluoromethane	104	71.8-135		%REC	164588	1	07/31/2012 20:11	JE
Surr: Toluene-d8	99.6	77.1-117		%REC	164588	1	07/31/2012 20:11	JE
PERCENT MOISTURE D2216								
Percent Moisture	16.3	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-019

Client Sample ID: 12205-SS-AST-DUP
Collection Date: 7/23/2012
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	0.0043	0.0037		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
1,1-Dichloroethane	BRL	0.0037		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
Chloroethane	BRL	0.0074		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
cis-1,2-Dichloroethene	0.016	0.0037		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
Tetrachloroethene	0.058	0.0037		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
Trichloroethene	0.018	0.0037		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
Vinyl chloride	BRL	0.0074		mg/Kg-dry	164588	1	07/31/2012 20:36	JE
Surr: 4-Bromofluorobenzene	94.9	56.5-134		%REC	164588	1	07/31/2012 20:36	JE
Surr: Dibromofluoromethane	101	71.8-135		%REC	164588	1	07/31/2012 20:36	JE
Surr: Toluene-d8	98.8	77.1-117		%REC	164588	1	07/31/2012 20:36	JE
PERCENT MOISTURE D2216								
Percent Moisture	12.7	0		wt%	R226185	1	08/01/2012 11:00	AS

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Aug-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1207J08-020

Client Sample ID: TRIP BLANK
Collection Date: 7/26/2012
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164520	1	07/31/2012 23:10	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164520	1	07/31/2012 23:10	NP
Chloroethane	BRL	10		ug/L	164520	1	07/31/2012 23:10	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164520	1	07/31/2012 23:10	NP
Tetrachloroethene	BRL	5.0		ug/L	164520	1	07/31/2012 23:10	NP
Trichloroethene	BRL	5.0		ug/L	164520	1	07/31/2012 23:10	NP
Vinyl chloride	BRL	2.0		ug/L	164520	1	07/31/2012 23:10	NP
Surr: 4-Bromofluorobenzene	79.7	67.4-123		%REC	164520	1	07/31/2012 23:10	NP
Surr: Dibromofluoromethane	126	75.5-128		%REC	164520	1	07/31/2012 23:10	NP
Surr: Toluene-d8	85.3	70-120		%REC	164520	1	07/31/2012 23:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EPS

Work Order Number 1207308

Checklist completed by BMT Signature Date 7/27/12

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☐

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 24 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1207J08

ANALYTICAL QC SUMMARY REPORT**BatchID: 164520**

Sample ID: MB-164520	Client ID:				Units: ug/L	Prep Date: 07/30/2012	Run No: 225979				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 164520	Analysis Date: 07/30/2012	Seq No: 4731609				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.82	0	50	0	91.6	67.4	123	0	0	0	
Surr: Dibromofluoromethane	56.08	0	50	0	112	75.5	128	0	0	0	
Surr: Toluene-d8	47.47	0	50	0	94.9	70	120	0	0	0	

Sample ID: LCS-164520	Client ID:					Units: ug/L	Prep Date: 07/30/2012	Run No: 225979			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 164520	Analysis Date: 07/30/2012	Seq No: 4731500			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	54.10	5.0	50	0	108	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	59.09	0	50	0	118	67.4	123	0	0	0	
Surr: Dibromofluoromethane	55.34	0	50	0	111	75.5	128	0	0	0	
Surr: Toluene-d8	49.13	0	50	0	98.3	70	120	0	0	0	

Sample ID: 1207H14-007AMS	Client ID:				Units: ug/L	Prep Date: 07/30/2012	Run No: 225979				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 164520	Analysis Date: 07/30/2012	Seq No: 4731502				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	60.40	5.0	50	0	121	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	56.84	0	50	0	114	67.4	123	0	0	0	
Surr: Dibromofluoromethane	54.29	0	50	0	109	75.5	128	0	0	0	
Surr: Toluene-d8	48.67	0	50	0	97.3	70	120	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1207J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 164520

Sample ID: 1207H14-007AMSD	Client ID:				Units: ug/L	Prep Date: 07/30/2012	Run No: 225979				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS	SW8260B			BatchID: 164520	Analysis Date: 07/30/2012	Seq No: 4731505				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	57.34	5.0	50	0	115	68.3	149	60.40	5.2	17.7	
Surr: 4-Bromofluorobenzene	56.53	0	50	0	113	67.4	123	56.84	0	0	
Surr: Dibromofluoromethane	53.21	0	50	0	106	75.5	128	54.29	0	0	
Surr: Toluene-d8	48.08	0	50	0	96.2	70	120	48.67	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1207J08

ANALYTICAL QC SUMMARY REPORT**BatchID: 164588**

Sample ID: MB-164588	Client ID:				Units: mg/Kg	Prep Date: 07/31/2012	Run No: 226152				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 164588	Analysis Date: 07/31/2012	Seq No: 4733975				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
Chloroethane	BRL	0.010	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.010	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.04703	0	0.05	0	94.1	56.5	134	0	0	0	
Surr: Dibromofluoromethane	0.04991	0	0.05	0	99.8	71.8	135	0	0	0	
Surr: Toluene-d8	0.04787	0	0.05	0	95.7	77.1	117	0	0	0	

Sample ID: LCS-164588	Client ID:					Units: mg/Kg	Prep Date: 07/31/2012	Run No: 226152			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 164588	Analysis Date: 07/31/2012	Seq No: 4733977			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	0.05413	0.0050	0.05	0	108	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	0.05432	0	0.05	0	109	56.5	134	0	0	0	
Surr: Dibromofluoromethane	0.05132	0	0.05	0	103	71.8	135	0	0	0	
Surr: Toluene-d8	0.04885	0	0.05	0	97.7	77.1	117	0	0	0	

Sample ID: 1207J21-006AMS	Client ID:					Units: mg/Kg-dry	Prep Date: 07/31/2012	Run No: 226152			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 164588	Analysis Date: 07/31/2012	Seq No: 4733981			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	0.05479	0.0056	0.056	0	97.9	67.6	145	0	0	0	
Surr: 4-Bromofluorobenzene	0.05933	0	0.056	0	106	56.5	134	0	0	0	
Surr: Dibromofluoromethane	0.05841	0	0.056	0	104	71.8	135	0	0	0	
Surr: Toluene-d8	0.05505	0	0.056	0	98.3	77.1	117	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1207J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 164588

Sample ID: 1207J21-006AMSD	Client ID:					Units: mg/Kg-dry	Prep Date: 07/31/2012	Run No: 226152			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 164588	Analysis Date: 07/31/2012	Seq No: 4733983			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	0.06067	0.0056	0.056	0	108	67.6	145	0.05479	10.2	20.7	
Surr: 4-Bromofluorobenzene	0.05834	0	0.056	0	104	56.5	134	0.05933	0	0	
Surr: Dibromofluoromethane	0.05631	0	0.056	0	101	71.8	135	0.05841	0	0	
Surr: Toluene-d8	0.05496	0	0.056	0	98.2	77.1	117	0.05505	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1207J08

ANALYTICAL QC SUMMARY REPORT**BatchID: 164601**

Sample ID: MB-164601	Client ID:				Units: mg/Kg	Prep Date: 07/31/2012	Run No: 226144				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 164601	Analysis Date: 07/31/2012	Seq No: 4734266				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	0.25	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	0.25	0	0	0	0	0	0	0	0	
Chloroethane	BRL	0.50	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	0.25	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.25	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.25	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.50	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	2.284	0	2.5	0	91.3	56.5	134	0	0	0	
Surr: Dibromofluoromethane	2.761	0	2.5	0	110	71.8	135	0	0	0	
Surr: Toluene-d8	2.396	0	2.5	0	95.8	77.1	117	0	0	0	

Sample ID: LCS-164601	Client ID:				Units: mg/Kg	Prep Date: 07/31/2012	Run No: 226144				
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 164601	Analysis Date: 07/31/2012	Seq No: 4734265				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	2.779	0.25	2.5	0	111	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	2.844	0	2.5	0	114	56.5	134	0	0	0	
Surr: Dibromofluoromethane	2.727	0	2.5	0	109	71.8	135	0	0	0	
Surr: Toluene-d8	2.530	0	2.5	0	101	77.1	117	0	0	0	

Sample ID: 1207J08-010AMS	Client ID: 12205-SS-AST-7-2	Units: mg/Kg-dry	Prep Date: 07/31/2012	Run No: 226144							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164601	Analysis Date: 08/01/2012	Seq No: 4734273							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	1.953	0.20	2.026	0	96.4	67.6	145	0	0	0	
Surr: 4-Bromofluorobenzene	2.222	0	2.026	0	110	56.5	134	0	0	0	
Surr: Dibromofluoromethane	2.088	0	2.026	0	103	71.8	135	0	0	0	
Surr: Toluene-d8	2.035	0	2.026	0	100	77.1	117	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1207J08

ANALYTICAL QC SUMMARY REPORT

BatchID: 164601

Sample ID: 1207J08-010AMSD	Client ID: 12205-SS-AST-7-2	Units: mg/Kg-dry	Prep Date: 07/31/2012	Run No: 226144							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164601	Analysis Date: 08/01/2012	Seq No: 4734274							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	1.909	0.20	2.026	0	94.3	67.6	145	1.953	2.27	20.7	
Surr: 4-Bromofluorobenzene	2.254	0	2.026	0	111	56.5	134	2.222	0	0	
Surr: Dibromofluoromethane	2.022	0	2.026	0	99.8	71.8	135	2.088	0	0	
Surr: Toluene-d8	1.988	0	2.026	0	98.2	77.1	117	2.035	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		