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2004 Groundwater Performance Monitoring Report

Corrective Action Management Unit

Wabash Aluminum Alloys, L.L.C.
East Syracuse, New York

C&S COMPANIES ENGINEERS

May 2005

2004 Groundwater Performance Monitoring Report

Corrective Action Management Unit

Wabash Aluminum Alloys, L.L.C.
East Syracuse, New York

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May 2005

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TRANSMITTAL

To: New York State Department of Environmental Conservation
Bureau of Solid and Hazardous Materials
625 Broadway, 8th Floor
Albany, New York 12233-7252

Re: Wabash Aluminum Alloys, LLC
Former East Syracuse Facility
Corrective Action Management Unit

File: 868.009.001

Attn: Ms. Denise Radke

Date: May 24, 2005

We are sending you herewith: The 2004 Groundwater Performance Monitoring Report for the Corrective Action Management Unit at above-referenced site.

If enclosed are not as noted, please notify us at once.

C&S ENGINEERS, INC.

Thomas A. Barba
Senior Project Scientist

Cc: Michael E. Kellogg, Connell Limited Partnership

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Division of Solid & Hazardous Materials

2004
Annual Report
Groundwater Performance Monitoring

Corrective Action Management Unit

Wabash Aluminum Alloys, L.L.C.
East Syracuse, New York

C&S Engineers, Inc.
499 Colonel Eileen Collins Boulevard
Syracuse, NY 13212

May 2005

WABASH ALUMINUM ALLOYS, LLC – SYRACUSE FACILITY
CORRECTIVE ACTION MANAGEMENT UNIT
2004 GROUNDWATER PERFORMANCE MONITORING REPORT
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WABASH ALUMINUM ALLOYS, LLC – SYRACUSE FACILITY
CORRECTIVE ACTION MANAGEMENT UNIT
2004 GROUNDWATER PERFORMANCE MONITORING REPORT
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1.0 INTRODUCTION

1.1 General

This document provides the 2004 annual summary of groundwater conditions associated with the Corrective Action Management Unit (CAMU) at the Wabash Aluminum Alloys, LLC facility at 6223 Thompson Road, East Syracuse, Onondaga County, New York. This report is submitted consistent with the Operations and Maintenance Plan for the CAMU, which was submitted by Roth Brothers Smelting, Inc. and approved by the New York State Department of Environmental Conservation (NYSDEC) in June 1997. Several revisions to the Sampling and Analysis Plan (SAP[Appendix D to the Operations and Maintenance Plan]) were incorporated in 2002, at the request of NYSDEC. The CAMU groundwater performance monitoring consists of activities designed to:

- Determine the presence and extent of chemical constituents associated with the CAMU within the overburden groundwater in the CAMU area;
- Characterize shallow groundwater flow direction and gradients within the CAMU area; and
- Continue the comprehensive approach to assessing and mitigating water quality impacts at the facility.

1.2 *Previous Site Groundwater Investigations*

The CAMU Groundwater Performance Monitoring Program was initiated in June 1998. In addition to this program, a year-long comprehensive site groundwater investigation culminated in the issuance of an August 2001 Groundwater Investigation Report for the site. The Groundwater Investigation included the following components:

- Inspection and rehabilitation, if required, of existing monitoring wells;
- Monitoring well installations and development;
- Hydraulic conductivity testing;
- Monthly and quarterly groundwater monitoring and sampling;
- Report preparation and submittal.

At the request of the NYSDEC, one of the monitoring wells installed during the Groundwater Investigation (MW-8R) has been maintained and included in the quarterly CAMU monitoring program.

1.3 Facility Description and Background

The Wabash Aluminum Alloys Syracuse, New York facility ceased business operations in June 2002. Before ceasing operations, Wabash produced specification aluminum ingot from various types of aluminum scrap by melting, refining, and casting processes. The facility's environs have been, and continue to be, primarily industrial. Figure 1 shows the property lines of the facility, the locations of the two principal facility buildings (Plant No. 1 and Plant No. 2). The asphalt-paved CAMU area is located north of Plant No. 2. The locations of all site monitoring wells, including the wells associated with CAMU groundwater performance monitoring, are included on Figure 1.

2.0 CAMU GROUNDWATER PERFORMANCE MONITORING

Analytical data generated from the quarterly CAMU groundwater sampling have been reported to NYSDEC as they have become available, along with any pertinent information regarding the presence or conditions of monitoring wells. This section, with associated tables and figures, provides a summary through 2004 of the CAMU Groundwater Performance Monitoring.

2.1 Monitoring Well Inspection

At present, the following monitoring wells are sampled as part of the CAMU Groundwater Performance Monitoring Program:

B291	B281	B290	B107	B108
B401	B403	B404	MW-8R	

Figure 1 presents the locations of monitoring wells utilized in the CAMU Groundwater Performance Monitoring Program. During each quarterly monitoring event, the initial activity is to conduct a field inspection of the existing wells. Over the course of time, several CAMU Groundwater Performance Monitoring Program monitoring wells have been inadvertently damaged or destroyed, including:

- Monitoring well B280, located north of the CAMU, was destroyed in September, 2000. Based on its adjacent location, monitoring well B291 replaced monitoring well B280;

- Between the June 2004 and September 2004 sampling events, monitoring well B402 was destroyed. Due to the proximity of monitoring well B404, a replacement well for B402 was not required; and

- Monitoring well MW-8, installed as part of the 2001 Groundwater Investigation, was destroyed during construction of subsequent scrapyard improvements. Subsequently, monitoring well MW-8R was installed adjacent to the MW-8 location for inclusion in the CAMU Groundwater Performance Monitoring Program.

2.2 Groundwater Gauging and Sampling

This section provides field and laboratory protocols followed during the groundwater sampling events conducted under the CAMU Groundwater Performance Monitoring Program. Table 1 provides a summary of the sampling frequency and the analytical parameters for each monitoring well during the program.

Groundwater Gauging

Prior to groundwater sampling of the monitoring wells, the static water level of each monitoring well was gauged using an electronic water level sensor capable of measuring to an accuracy of ± 0.01 foot. The water level probe was decontaminated between wells by washing in an Alconox™/water solution and rinsing with distilled water.

Gauging these wells was conducted to facilitate preparation of groundwater contour maps for the facility, as well as to provide data associated with recharge at the individual well locations. Table 2 provides the static water level elevations for each monitoring well over the course of the 2004 sampling events, along with the surveyed reference elevation for each well. The location of each monitoring well is shown on Figure 1. The Field Sampling Logs for each of quarterly sampling events are included in Appendix A.

Groundwater Contour Maps

Figures 2 and 3 depict the groundwater contours developed from the groundwater surface elevations measured during the March 2004 and September 2004 sampling events, respectively. The groundwater surface elevation data from those sampling events generally represent high (March 2004) and low (September 2004) groundwater periods. Based on review of groundwater surface elevation data from this investigation, as well as of historical data, these contours generally represent typical seasonal groundwater flow patterns for the Wabash facility. Figures 2 and 3 indicate that, in low and high groundwater periods alike, the general groundwater flow direction at the facility is to the northeast, toward the South Branch of Ley Creek.

Groundwater Sampling and Analysis

Each monitoring well was purged prior to sampling. Water surface elevations and indicator groundwater parameters of pH and specific conductance were measured prior to purging and following recharge. Consistent with the 2002 revisions to the SAP, purging of monitoring wells was conducted using a low-flow peristaltic pump with dedicated tubing at each location. Purging continued until a minimum of three well volumes were removed or until the well was bailed dry twice and each of the above-listed indicator groundwater parameters stabilized to within 10% of the previous measurement.

Groundwater samples were collected after purging and recharge. Groundwater samples were collected with a new disposable bailer. The samples were collected and placed into clean containers by field technicians working for Upstate Laboratories, Inc. (Upstate). Upstate, which is certified by the New York State Department of Health for the analyses required, also completed the laboratory analyses for this project.

All PCBs analyses were conducted utilizing USEPA Method 8082, with an MDL of less than 0.065 ug/l (ppb). Samples were packed on ice and kept at 4°C or less until delivered to the laboratory. A turnaround time of two weeks was utilized for laboratory reporting of analytical results.

Table 3 provides the summary analytical data for PCBs and total and dissolved lead for the monitoring wells included in this program. Table 3 also provides pH and specific conductivity data. Table 4 provides the data for total and dissolved Barium and Arsenic. Appendix B includes the laboratory data sheets for all laboratory analyses associated with this groundwater investigation.

2.3 Quarterly Reports

Data resulting from quarterly groundwater sampling were submitted to NYSDEC as those results became available. The quarterly submittals included a summary table presenting the analytical results generated. The dates of the 2004 quarterly sampling events were:

- March 31, 2004;
- June 18, 2004;
- September 14, 2004; and
- December 8, 2004

3.0 RESULTS AND CONCLUSIONS

This section provides a summary of field data, and analytical results from the CAMU Groundwater Performance Monitoring Program, along with conclusions regarding groundwater quality.

3.1 Groundwater Quality

Data on Tables 3 and 4 are highlighted, as appropriate, to indicate detected concentrations that exceed the following NYSDEC Class GA Groundwater Standards:

Parameter	Units	Class GA Standard
pH	s.u.	NA
Lead	mg/l	0.025
Arsenic	mg/l	0.025
Barium	mg/l	1.00
Aroclor 1016	ug/l	0.09*
Aroclor 1221	ug/l	0.09*
Aroclor 1232	ug/l	0.09*
Aroclor 1242	ug/l	0.09*
Aroclor 1248	ug/l	0.09*
Aroclor 1254	ug/l	0.09*
Aroclor 1260	ug/l	0.09*

Note: NA = no Class GA Standard for this parameter
* = the PCB limit applies to the total for all Aroclors.

For the parameter that does not have a listed Class GA Standard, the surface water discharge limit from the facility's SPDES permit (6.5-8.5 s.u. for pH) is utilized for purposes of discussion. The following sections summarize the analytical data collected during the 2004 CAMU Groundwater Performance Monitoring.

pH

Monitoring well B402 exhibited a pH of 8.98 standard units during the March 2004 sampling event, and monitoring well B404 exhibited a pH of 8.52 standard units during the June 2004 sampling event. None of the other CAMU Groundwater Performance Monitoring wells exhibited pH measurements outside the range utilized for comparison (6.5 – 8.5 standard units) during 2004.

PCBs

Monitoring well MW-8R, exhibited levels of PCB aroclor 1254 that exceeded the Class GA Groundwater Standard (0.09 ug/l) in three of the four 2004 quarterly samples collected. The PCB concentrations ranged from 2.6 ug/l (March 2004 sampling) to 0.32

ug/l (June 2004). None of the other CAMU Groundwater Performance Monitoring wells exhibited detectable levels of PCBs during the 2004 quarterly sampling events.

Total and Dissolved Lead

Monitoring well B401 exhibited a total lead concentration of 0.031 mg/l in the June 2004 sample. None of the other CAMU Groundwater Performance Monitoring wells exhibited total lead concentrations exceeding the 0.025 mg/l Class GA Groundwater Standard during the 2004 quarterly sampling. None of the CAMU Groundwater Performance Monitoring wells exhibited dissolved lead concentrations exceeding the Class GA Groundwater Standard during the 2004 quarterly sampling events.

Total and Dissolved Barium

The data on Table 4 indicate that none of the CAMU Groundwater Performance Monitoring wells exhibited total or dissolved Barium concentrations exceeding the Class GA Groundwater Standard during the 2004 annual sampling event.

Total and Dissolved Arsenic

Monitoring well B281 exhibited a total Arsenic concentration of 0.031 mg/l in the March 2004 groundwater sample, which exceeds the Class GA Groundwater Standard (0.025 mg/l) for that parameter. The dissolved Arsenic concentration from B281 was 0.017 mg/l. The total and dissolved Arsenic concentrations for monitoring well B291 were 0.020 mg/l and 0.016 mg/l, respectively.

3.2 Conclusions and Future Sampling

The field measurements and laboratory analytical data generated during the 2004 CAMU Groundwater Performance Monitoring Program indicate concentrations of the target parameters consistent with those exhibited in preceding years. The data do not indicate that the chemical constituents associated with the CAMU have impacted groundwater in the area or that groundwater from upgradient is adversely impacting groundwater near the CAMU.

Wabash will continue to conduct quarterly monitoring of the designated monitoring wells pending NYSDEC Division of Hazardous Materials conclusions regarding the need for continuation of this program. The next quarterly monitoring is scheduled for June 2005. After receiving NYSDEC's requirements regarding future monitoring, Wabash will confirm a schedule for implementing and reporting the results for the additional required efforts.

Table(s)

TABLES

TABLE 1
WABASH ALUMINUM ALLOYS, LLC – SYRACUSE FACILITY
CAMU GROUNDWATER PERFORMANCE MONITORING
2004 SAMPLING SCHEDULE

Sampling Frequency	Analyte	Analytical Method	Quantitation Limit (ug/l)	Sampling Locations (1)	No. of Samples	No. and type of QA/QC Samples(2)
Annually	As (total and soluble)	6010	4	B281, B291	2	1MS 1FB 1D 1EB
	Ba (total and soluble)	6010	300	B107, B108, B281	3	
Quarterly	Pb (total and soluble)	6010	2	B281,B290, B291, B401, B403, B404, MW-8R	7	
	PCBs	8082	0.05	B281,B290, B291, B401, B403, B404, MW-8R	7	1MS, 1MSD, 1D

Notes: (1) Locations of Monitoring Wells Are Provided on Figure 1
(2) QA/QC Sample Designations (collected when Category B deliverables are required):
D = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
EB = Equipment Blank
FB = Filter Blank

Table 2
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Groundwater Surface Elevations

Monitoring Well	Reference Elevation	2004 Groundwater Surface Elevations			
		31-Mar	18-Jun	14-Sep	8-Dec
B107	410.61	409.61	NS	NS	NS
B108	411.8	409.89	NS	NS	NS
B291	408.11	404.9	403.6	404.03	405.09
B281	423.39	419.36	418.16	418.6	419.57
B290	414.61	409.38	409.48	409.46	409.63
B401	413.54	408.21	406.16	407.55	408.28
B402	409.44	406.33	405.69	NS	NS
B403	411.05	408.33	408.36	408.18	408.29
B404	410.77	407.11	406.81	405.69	407.54
MW-8R	415.3	412.95	412.19	411.38	412.36

NS = Not Sampled

Table 3
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Lead, pH, Conducivity, and PCBs Data

Parameters ->		Lead (total)	Lead (soluble)	pH	Specific Conduct.	Aroclors						
						1016	1221	1232	1242	1248	1254	1260
Units ->		mg/l	mg/l	Std. Units	us/cm	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards ->		0.025	0.025	6.5-8.5	na	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*
B107	Jun-00			7.46	1,048	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.10
	Jul-00			7.57	916	<0.05	<0.05	<0.05	<0.05	<0.05	0.086	<0.05
	Aug-00			7.81	920	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00			7.34	980	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Oct-00			7.68	834	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Nov-00			7.87	640	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Feb-01			7.71	608	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Apr-01			7.82	960	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	May-01			7.63	1,107	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-02			7.44	947							
	Dec-03			8.62	644							
	Mar-04			7.81	543							
B108	Jul-00			7.21	2,620	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Aug-00			7.33	2,750	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	0.002	0.001	7.27	2,510	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Oct-00			7.26	2,520	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Nov-00			7.00	2,210	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	0.004	<0.001	7.22	2,180	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jan-01			7.19	2,176	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Feb-01			7.74	2,110	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	<0.001	<0.001	7.01	2,100	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Apr-01			6.98	2,350	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	May-01			7.01	1,680	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-02			7.08	254							
	Dec-03			8.52	1,663							
	Mar-04			7.55	1,546							
B280**	Jun-98	0.0036	<0.002	7.06	801	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1999	0.089	<0.01	6.24	893	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Jun-00	0.002	0.002	6.86	1,056	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B291**	Sep-00	0.007	0.001	7.31	877	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	0.001	0.001	7.24	848	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	0.003	<0.001	7.01	752	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	<0.001	<0.001			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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Table 3
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Lead, pH, Conducivity, and PCBs Data

Parameters ->		Lead (total)	Lead (soluble)	pH	Specific Conduct.	Aroclors						
						1016	1221	1232	1242	1248	1254	1260
Units ->		mg/l	mg/l	Std. Units	us/cm	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards ->		0.025	0.025	6.5-8.5	na	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*
	Sep-02	0.002	<0.001	7.4	1,134	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	0.002	<0.001	7.37	800	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	0.003	0.001	7.38	1,213	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	<0.001	<0.001	7.21	898	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.008	0.002	8.81	804	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	0.002	<0.001	7.31	860	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	0.001	<0.001	7.53	1,167	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	0.003	<0.001	7.21	746	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Dec-04	0.001	<0.001	7.10	958	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Mar-05	<0.001	<0.001	7.18	996	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B281	Jun-98	<0.002	<0.002	6.53	2,690							
	1999	<0.01	<0.01	7.47	3,120	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Jun-00	<0.001	<0.001	6.72	2,630	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	<0.001	<0.001	7.02	2,560	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	<0.001	<0.001	7.28	1,956	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	<0.001	<0.001	7.24	2,020	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	<0.001	<0.001									
	Sep-02	<0.001	<0.001	6.86	3,000							
	Dec-02	<0.001		7.03	2,060	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	<0.001	<0.001	7.27	1,063	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	0.001	<0.001	7.32	3,010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	<0.01	<0.001	7.29	3,170	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.002	0.001	7.27	2,170	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	<0.001	<0.001	7.18	2,230	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	<0.001	0.001	7.47	2,940	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	<0.001	<0.001	7.03	2,990	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Dec-04	0.004	<0.001	7.39	1,969	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Mar-05	<0.001	<0.001	7.48	3,000	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B290	Jun-98	41.9	<0.02	6.94	2,160							
	1999	<0.01	0.72	7.24	2,370							
	Jun-00	0.045	<0.001	6.87	2,410	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	0.050	<0.001	7.42	2,120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	0.092	<0.001	7.01	1,784	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

FOIL208204

Table 3
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Lead, pH, Conducivity, and PCBs Data

Parameters ->		Lead (total)	Lead (soluble)	pH	Specific Conduct.	Aroclors						
						1016	1221	1232	1242	1248	1254	1260
Units ->		mg/l	mg/l	Std. Units	us/cm	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards ->		*0.025*	*0.025*	*6.5-8.5*	*na*	*0.09**	*0.09**	*0.09**	*0.09**	*0.09**	*0.09**	*0.09**
	Mar-01	0.007	<0.001	7.01	1,693	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	**0.048**	<0.001									
	Sep-02	0.008	<0.001	6.93	2,130							
	Dec-02	**0.042**		7.13	1,707	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	0.002	<0.001	7.38	1,451	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	**0.059**	<0.001	7.37	2,420	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	0.021	<0.001	7.17	2,240	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.008	0.002	8.08	1,322	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	<0.001	<0.001	7.49	1,590	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	0.001	<0.001	7.45	1,711	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	0.008	<0.001	7.24	2,410	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Dec-04	<0.001	0.003	7.41	1,822	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Mar-05	0.013	<0.001	7.52	2,450	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B401	Jun-98	0.0124	<0.002									
	1999	**0.061**	<0.01	6.69	1,510							
	Jun-00	**0.044**	0.003	6.78	1,275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	**0.36**	0.002	7.29	1,159	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	**0.059**	0.007	7.44	1,180	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	**0.033**	<0.001	7.26	810	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	**0.21**	<0.001									
	Sep-02	**0.06**	0.002	7.48	644							
	Dec-02	0.013		7.27	925	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	0.024	<0.001	7.32	781	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	0.01	0.003	7.66	1,109	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	0.01	0.001	7.15	1,126	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.021	0.002	8.37	791	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	0.004	<0.001	7.48	785	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	**0.031**	<0.001	7.49	1,053	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	0.005	<0.001	7.11	1,030	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Dec-04	0.002	<0.001	7.21	937	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Mar-05	0.003	<0.001	7.36	1,038	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B402	Jun-98	0.0064	0.0041			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1999	**0.29**	<0.01	8.12	3,350	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

FOIL208205

Table 3
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Lead, pH, Conducivity, and PCBs Data

Parameters ->		Lead (total)	Lead (soluble)	pH	Specific Conduct.	Aroclors						
						1016	1221	1232	1242	1248	1254	1260
Units ->		mg/l	mg/l	Std. Units	us/cm	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards ->		0.025	0.025	6.5-8.5	na	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*
	Jun-00	0.007	0.003	8.45	2,820	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	0.007	0.002	8.13	1,374	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	0.004	0.002	**8.76**	1,785	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	0.003	0.004	7.95	1,480	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	<0.001	<0.001			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-02	0.004	<0.001	8.44	2,260	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-02	<0.001		**8.96**	2,080	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	<0.001	<0.001	**9.72**	1,628	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	0.002	<0.001	**9.07**	2,450	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	0.001	<0.001	7.49	1,671	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.003	0.002	**10.69**	2,050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	<0.001	<0.001	**8.98**	1,892	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	0.002	<0.001	7.71	2,820	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	No Sample - Well Destroyed										
B403	Jun-98	**28.4**	<0.002	7.21	1,280	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1999	**0.24**	0.01	7.36	710	<0.01	<0.01	<0.01	<0.01	<0.01	**0.17**	<0.01
	Jun-00	0.010	0.004	7.35	402	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	0.007	0.003	8.41	520	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	0.002	0.002	8.12	970	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	0.004	0.003	7.54	415	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	<0.001	<0.001			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-02	0.005	<0.001	7.11	456	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-02	0.003		7.52	201	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	0.002	<0.001	7.97	200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	0.002	<0.001	8.03	536	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	0.002	<0.001	7.61	351	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.004	0.001	8.41	235	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	0.003	0.002	7.44	296	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	0.001	0.002	7.65	681	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	0.001	<0.001	7.23	662	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Dec-04	<0.001	<0.001	7.52	613	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Mar-05	<0.001	<0.001	7.82	1,156	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
B404	Jun-98	0.0071	0.0027	**10.55**	2,380	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

FOIL208206

Table 3
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Lead, pH, Conducivity, and PCBs Data

Parameters ->		Lead (total)	Lead (soluble)	pH	Specific Conduct.	Aroclors						
						1016	1221	1232	1242	1248	1254	1260
Units ->		mg/l	mg/l	Std. Units	us/cm	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards ->		0.025	0.025	6.5-8.5	na	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*	0.09*
	1999	<0.01	<0.01	6.72	1,740	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Jun-00	0.004	0.002	6.97	1,573	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-00	0.002	0.002	7.32	1,114	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-00	0.003	<0.001	7.47	589	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-01	0.003	0.003	7.54	610	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-02	<0.001	<0.001			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-02	0.003	<0.001	7.09	731	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-02	0.003		7.33	374	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-03	<0.001	<0.001	7.61	272	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-03	0.002	<0.001	7.63	544	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-03	0.001	<0.001	7.26	526	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-03	0.004	0.002	**9.83**	297	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mar-04	0.001	0.002	8.14	286	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Jun-04	0.001	<0.001	**8.85**	516	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sep-04	0.002	0.001	7.43	559	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Dec-04	<0.001	<0.001	7.66	348	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Mar-05	<0.001	<0.001	7.28	512	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
MW-8R ◆	Sep-02	0.004	0.001	**9.21**	933	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dec-02	0.002		**9.62**	567	<0.05	<0.05	<0.05	<0.05	<0.05	**2.6**	<0.05
	Mar-03	0.001	0.002	**8.82**	551	<0.05	<0.05	<0.05	<0.05	<0.05	**0.3**	<0.05
	Jun-03	0.002	0.002	**8.59**	726	<0.05	<0.05	<0.05	<0.05	<0.05	**0.25**	<0.05
	Sep-03	0.002	<0.001	8.05	441	<0.05	<0.05	<0.05	<0.05	<0.05	**5.9**	<0.05
	Dec-03	0.004	0.002	8.37	576	<0.05	<0.05	<0.05	<0.05	<0.05	**3.6**	<0.05
	Mar-04	0.002	<0.001	7.91	531	<0.05	<0.05	<0.05	<0.05	<0.05	**2.6**	<0.05
	Jun-04	0.002	<0.001	8.06	332	<0.05	<0.05	<0.05	<0.05	<0.05	**0.32**	<0.05
	Sep-04	<0.001	0.002	7.14	811	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Dec-04	0.009	<0.001	7.36	996	<0.05	<0.05	<0.05	<0.05	<0.05	**0.98**	<0.05
	Mar-05	<0.001	<0.001	7.76	1,158	<0.050	<0.050	<0.050	<0.050	<0.050	**1.2**	<0.050

* Applies to the sum of these substances

** Monitoring well B291 replaced monitoring well B280 in this program in September 2000.

◆ MW-8R was installed in September 2002 and added to the CAMU monitoring at that time

Bold denotes concentrations above Class GA Groundwater Quality Standards.

Table 4
Wabash Aluminum Alloys, LLC - Syracuse Facility
CAMU Groundwater Performance Monitoring
2004 Oil & Grease, Arsenic, and Barium Data

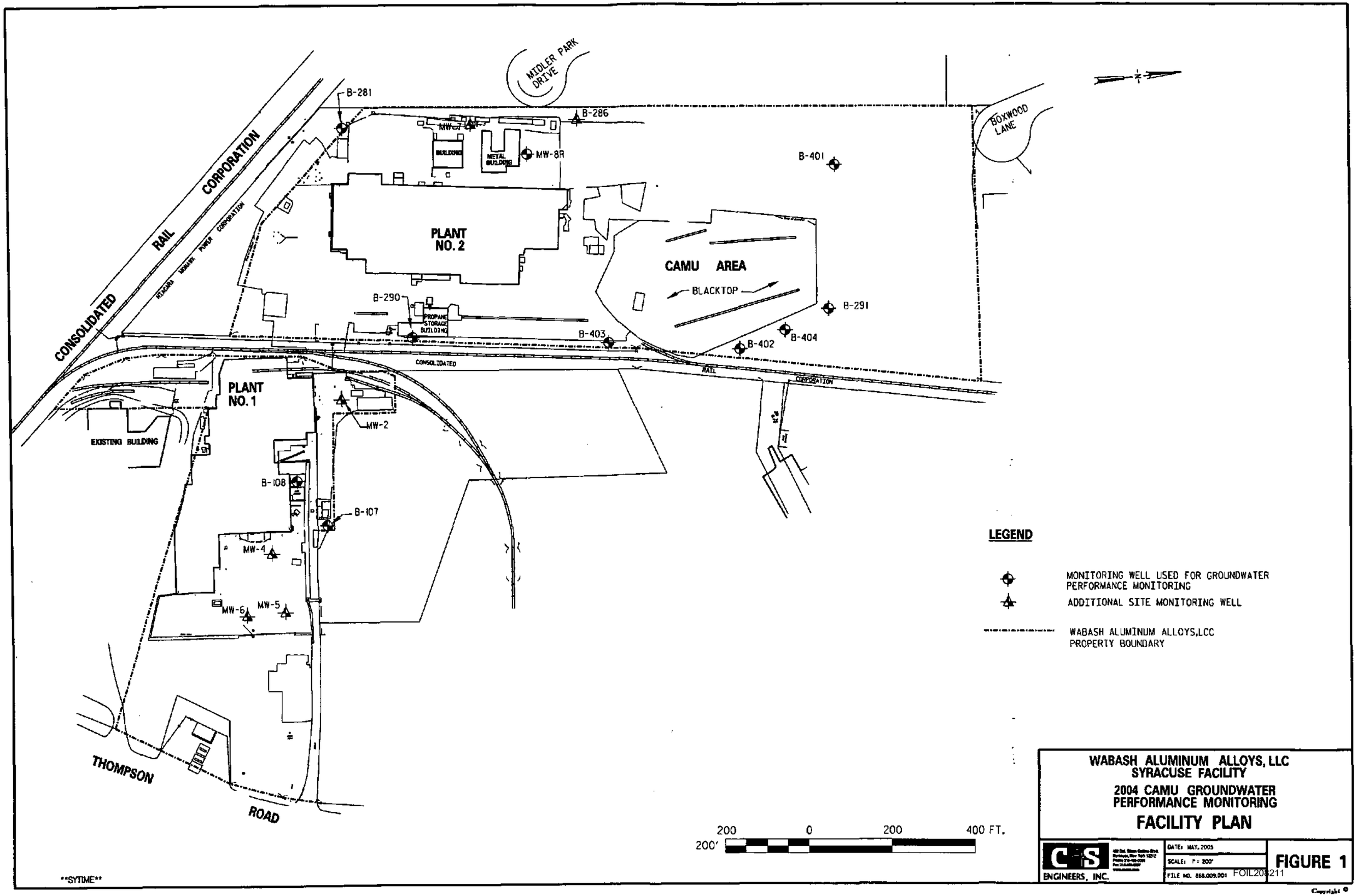
Parameters ->		O&G	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)
Units ->		mg/l	mg/l	mg/l	mg/l	mg/l
Class GA Standards ->		na	0.025	0.025	1.000	1.000
B107	Jun-00				<0.3	<0.3
	Sep-02				0.31	0.34
	Dec-03				0.4	0.4
	Mar-04				0.5	0.3
B108	Sep-02				0.73	0.78
	Dec-03				0.4	1
	Mar-04				0.5	0.4
B280**	Jun-98		<0.003	0.0036		
	1999		<0.01	<0.01		
	Jun-00		0.004	0.004		
B291**	Jun-02		0.012	<0.010		
	Sep-02		<0.010	<0.010		
	Dec-03		0.012	<0.010		
	Mar-04		0.020	0.016		
B281	Jun-98		0.0059	<0.003		
	1999		<0.01	<0.01		
	Jun-00		0.060	0.001	<0.3	<0.3
	Jun-02		**0.037**	0.017		
	Sep-02		0.023	<0.010	<0.03	<0.03
	Dec-03		0.017	<0.001	<0.3	<0.3
	Mar-04		**0.031**	0.017	<0.3	<0.3
MW-8R	Sep-02	<5				

** Monitoring well B291 replaced monitoring well B280 in this program in September 2000.

Bold denotes concentrations above Class GA Groundwater Quality Standards.

Figure(s)

FIGURES



WABASH ALUMINUM ALLOYS, LLC
SYRACUSE FACILITY

2004 CAMU GROUNDWATER PERFORMANCE MONITORING

FACILITY PLAN

C-S ENGINEERS, INC.

DATE: MAY, 2005
SCALE: 1" = 200'
FILE NO. 858.009.001

FIGURE 1

FOIL208211

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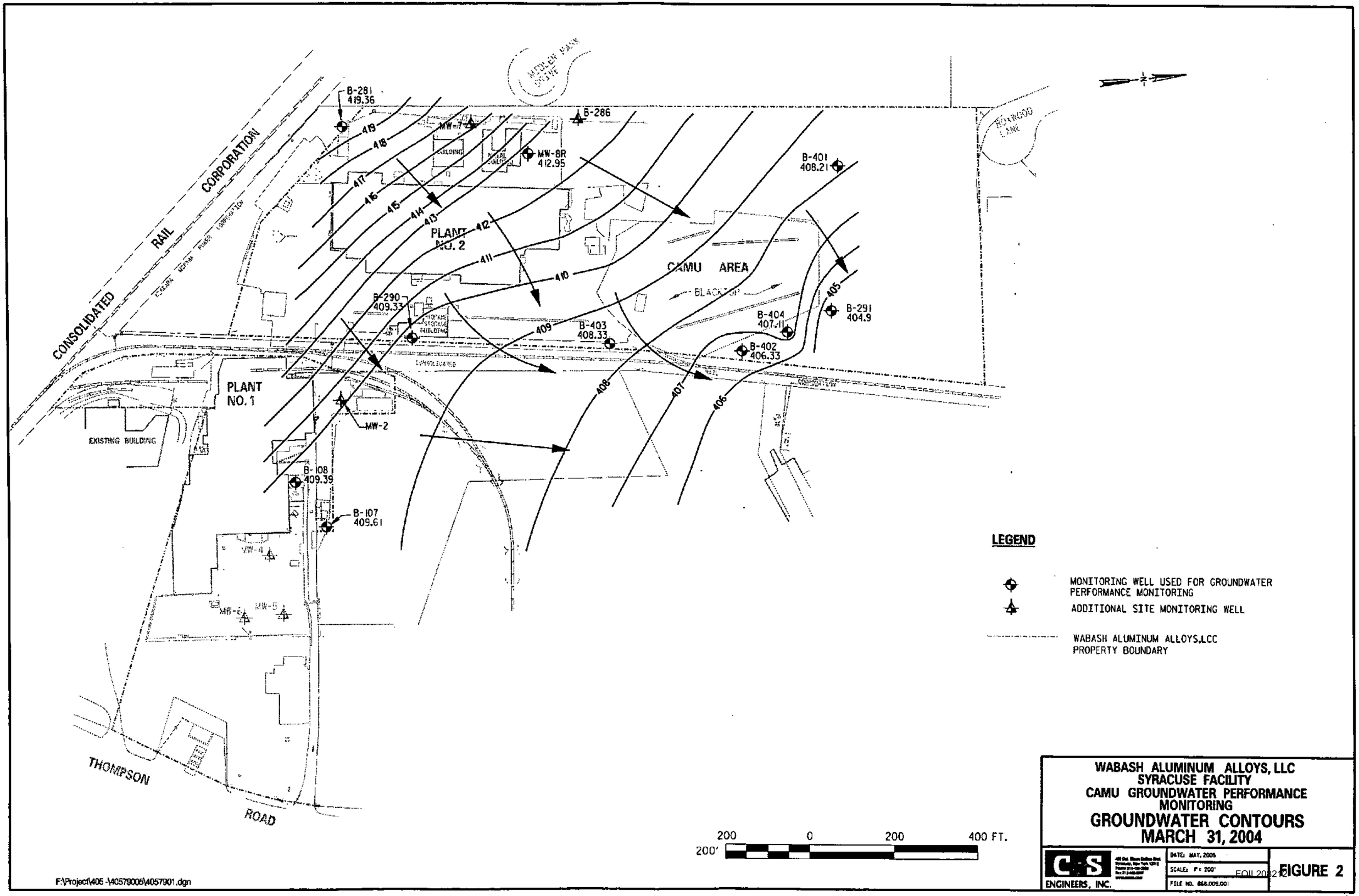

WABASH ALUMINUM ALLOYS, LLC
SYRACUSE FACILITY
CAMU GROUNDWATER PERFORMANCE MONITORING

GROUNDWATER CONTOURS MARCH 31, 2004

C-S ENGINEERS, INC.

DATE: MAY, 2005
SCALE: 1" = 200'
FILE NO. 668.005.001

FIGURE 2

EOIL 20821

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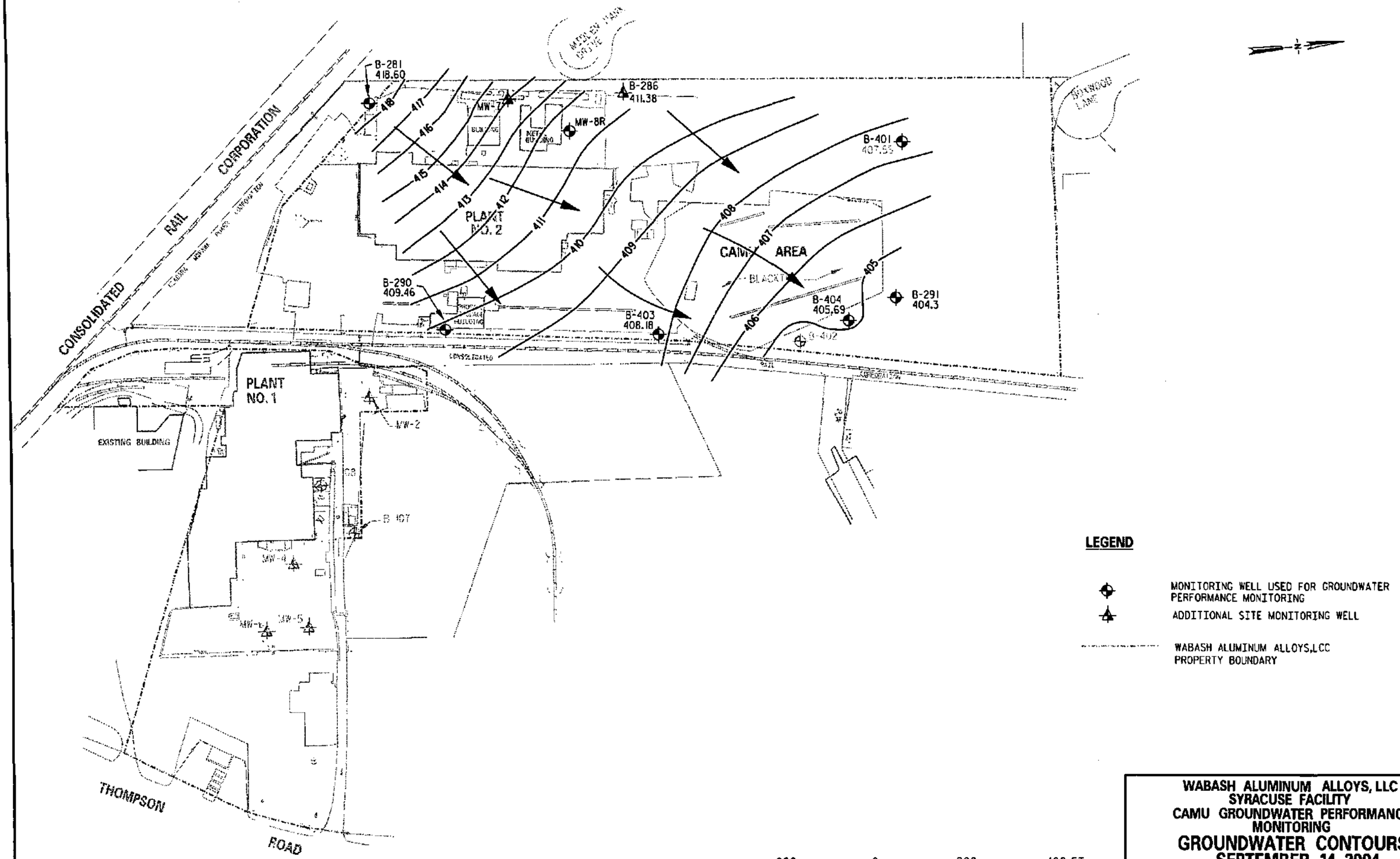


LEGEND

- MONITORING WELL USED FOR GROUNDWATER PERFORMANCE MONITORING
- ADDITIONAL SITE MONITORING WELL
- WABASH ALUMINUM ALLOYS,LCC PROPERTY BOUNDARY

WABASH ALUMINUM ALLOYS, LLC
SYRACUSE FACILITY
CAMU GROUNDWATER PERFORMANCE MONITORING

GROUNDWATER CONTOURS SEPTEMBER 14, 2004

C S ENGINEERS, INC.

DATE: MAY, 2005
SCALE: 1" = 200'
FILE NO. 868.005.001

FIGURE 3

F:\Project\405 -\40579005\4057901.dgn

FOIL208213

Copyright ©

APPENDIX A

Field Sampling Logs

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

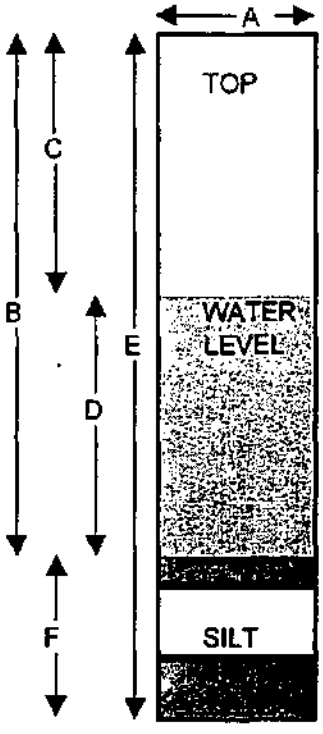
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **MW-8R** **Dupe**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10	feet
C.	Depth to Water	2.35	feet
D.	Length of Water Column (calculated)	7.65	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.22	gallons
	No. of Volumes to be Evacuated	x3	------
	Total Volume to be Evacuated	3.67	gallons
	Actual Volume Evacuated	4	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	1:35 PM	1:45 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.77	7.91
Specific Cond.	554	531
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	clear	clear
Weather:	50 f cloudy	50 f cloudy

Observations:

% Recharge:

Initial Depth to Water	2.35	feet
Recharge Depth to Water	3.15	feet
2nd water column height	n/a	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

FOIL208215

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

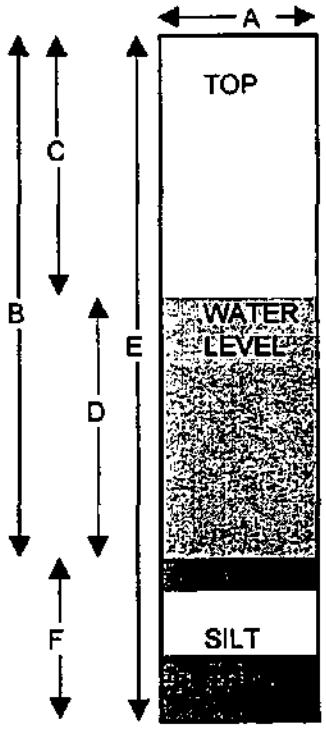
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-281** **MS/MSD**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	13.03	feet
C.	Depth to Water	4.03	feet
D.	Length of Water Column (calculated)	9	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.44	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	4.32	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	9:45 AM	10:25 AM
EH	n/a	n/a
Temperature	n/a	n/a
pH	8.05	7.18
Specific Cond.	2290	2230
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	orange	clear

% Recharge:

Initial Depth to Water	4.03	feet
Recharge Depth to Water	5.21	feet
2nd water column height	n/a	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 50 f cloudy 50 f cloudy

Observations:

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltz

FOIL208216

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No. (enter by lab)

Well ID.: B-290

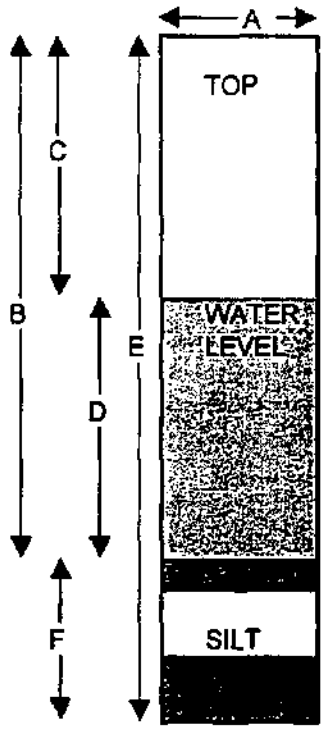
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10.26	feet
C.	Depth to Water	5.23	feet
D.	Length of Water Column (calculated)	5.03	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	0.8	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	2.41	gallons
	Actual Volume Evacuated	2.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	10:30 AM	10:50 AM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.22	7.49
Specific Cond.	1819	1590
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	orange	clear
Weather:	50 f cloudy	50 f cloudy

Observations:

% Recharge:

Initial Depth to Water	5.23	feet
Recharge Depth to Water	5.97	feet
2nd water column height	n/a	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

FOIL208217

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

Well ID.: **B-291**

ULI ID No. (enter by lab)

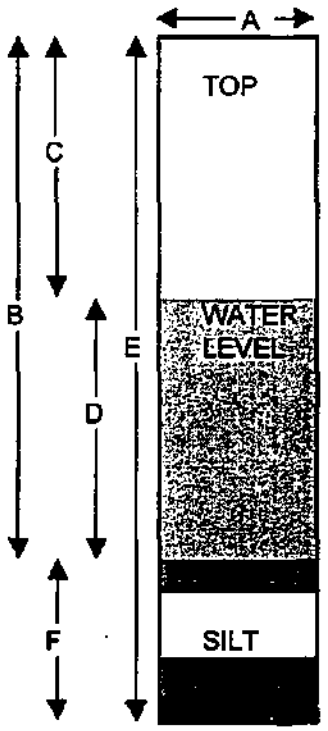
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	14.2	feet
C.	Depth to Water	3.21	feet
D.	Length of Water Column (calculated)	10.99	feet
	Conversion Factor	X.16	-----
	Well Volume (calculated)	1.76	gallons
	No. of Volumes to be Evacuated	x3	-----
	Total Volume to be Evacuated	5.28	gallons
	Actual Volume Evacuated	5.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	12:45 PM	1:05 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.48	7.31
Specific Cond.	792	860
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	slightly cloudy	clear

% Recharge:

Initial Depth to Water	3.21	feet
Recharge Depth to Water	4.15	feet
2nd water column height	n/a	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 50 f cloudy | 50 f cloudy

Observations:

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Balt

FOIL208218

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

Well ID.: B-401

ULI ID No.: (enter by lab)

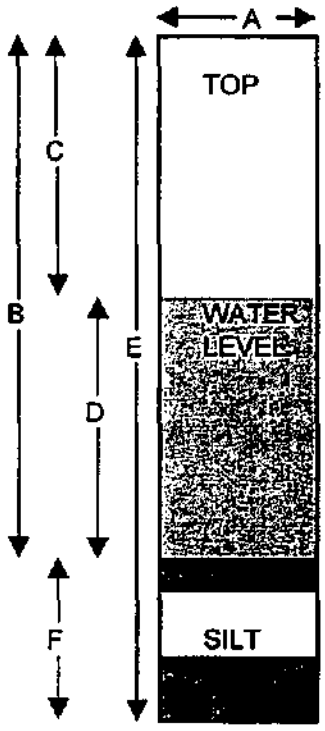
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.64	feet
C.	Depth to Water	5.33	feet
D.	Length of Water Column (calculated)	6.31	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.01	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	3.03	gallons
	Actual Volume Evacuated	3	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	1:10 PM	1:30 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.34	7.48
Specific Cond.	797	785
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	clear	clear
Weather:	50 f cloudy	50 f cloudy

Observations:

% Recharge:

Initial Depth to Water	5.33	feet
Recharge Depth to Water	5.86	feet
2nd water column height	n/a	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltz

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No. (enter by lab)

Well ID.: B-402

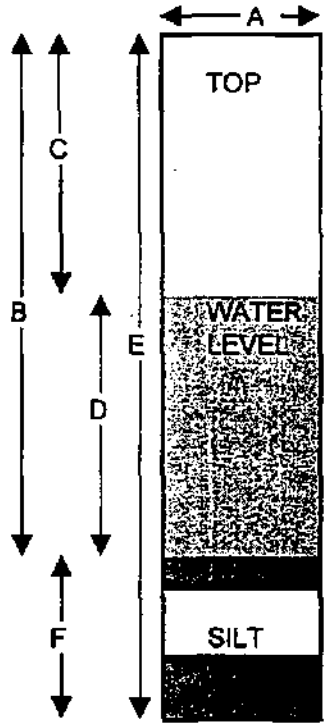
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3210

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.24	feet
C.	Depth to Water	3.11	feet
D.	Length of Water Column (calculated)	9.13	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.46	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	4.38	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	11:40 AM	12:20 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	8.87	8.98
Specific Cond.	1947	1892
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	clear	clear
Weather:	50 f cloudy	50 f cloudy
Observations:		

% Recharge:

Initial Depth to Water	3.11	feet
Recharge Depth to Water	5.01	feet
2nd water column height	n/a	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:
Paul Baltzersen / Nate Talucci

Signature: Paul Baltz

FOIL208220

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No. (enter by lab)

Well ID.: B-403

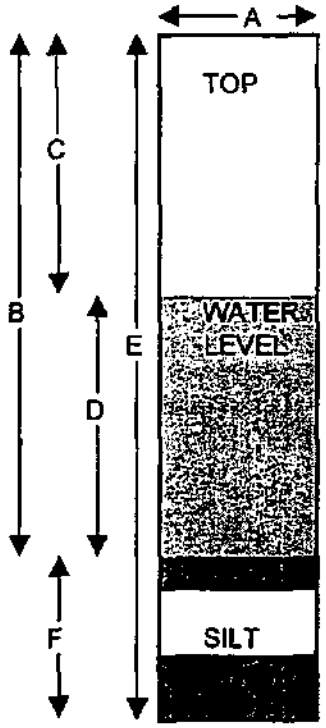
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.26	feet
C.	Depth to Water	2.72	feet
D.	Length of Water Column (calculated)	8.54	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.37	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	4.1	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	11:00 AM	11:35 AM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.72	7.44
Specific Cond.	364	296
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	clear	clear
Weather:	50 f cloudy	50 f cloudy

Observations:

% Recharge:

Initial Depth to Water 2.72 feet

Recharge Depth to Water 3.86 feet

2nd water column height n/a %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

FOIL208221

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

ULI ID No. (enter by lab)

Well ID.: **B-404**

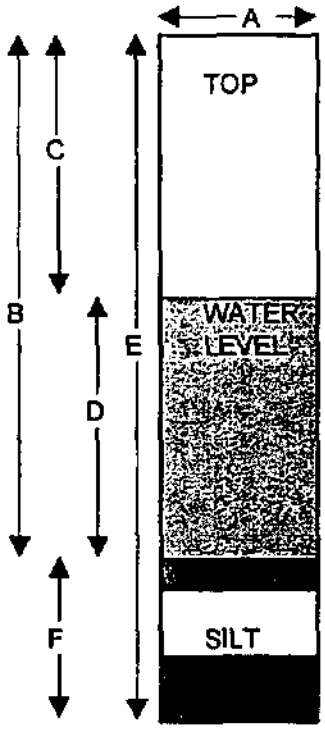
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3210

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	16.14	feet
C.	Depth to Water	3.66	feet
D.	Length of Water Column (calculated)	12.48	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	2	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	5.99	gallons
	Actual Volume Evacuated	6	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	12:25 PM	12:40 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	8.61	8.14
Specific Cond.	328	286
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	orange	clear
Weather:	50 f cloudy	50 f cloudy
Observations:		

% Recharge:

Initial Depth to Water	3.66	feet
Recharge Depth to Water	4.13	feet
2nd water column height	n/a	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:
Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

FOIL208222

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

ULI ID No. (enter by lab)

Well ID.: **B-107**

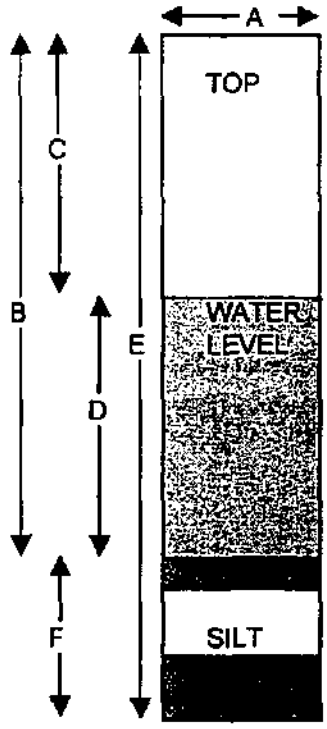
Condition of Well: Good

Locked: NO

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: *——*

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	8.78	feet
C.	Depth to Water	1.00	feet
D.	Length of Water Column (calculated)	7.78	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.24	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	3.73	gallons
	Actual Volume Evacuated	4	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	2:10 PM	2:25 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.97	7.81
Specific Cond.	434	543
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	clear	clear

% Recharge:

Initial Depth to Water	1.00	feet
Recharge Depth to Water	1.68	feet
2nd water column height	n/a	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 50 f cloudy | 50 f cloudy

Observations:

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No: (enter by lab)

Well ID.: B-108

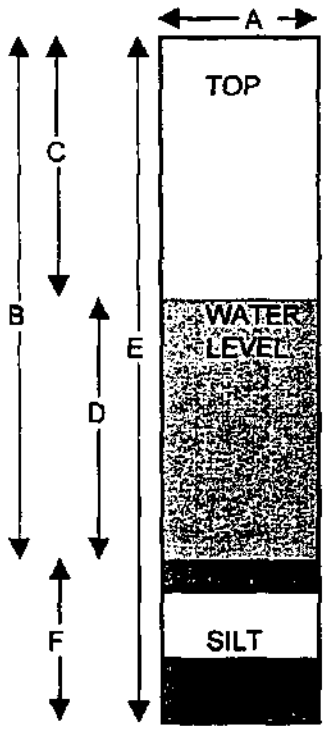
Condition of Well: Good

Locked: NO

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: *_____*

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	9.24	feet
C.	Depth to Water	1.91	feet
D.	Length of Water Column (calculated)	7.33	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.17	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	3.52	gallons
	Actual Volume Evacuated	4	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	3/31/2004	3/31/2004
Time	1:50 PM	2:05 PM
EH	n/a	n/a
Temperature	n/a	n/a
pH	7.47	7.55
Specific Cond.	1471	1546
Turbidity	n/a	n/a
Dissolved Oxygen	n/a	n/a
Appearance	orange	clear
Weather:	50 f cloudy	50 f cloudy

Observations:

% Recharge:

Initial Depth to Water	1.91	feet
Recharge Depth to Water	2.58	feet
2nd water column height	n/a	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature:

FOIL208224

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

Well ID.: **MW-8R**

ULI ID No.. (enter by lab)

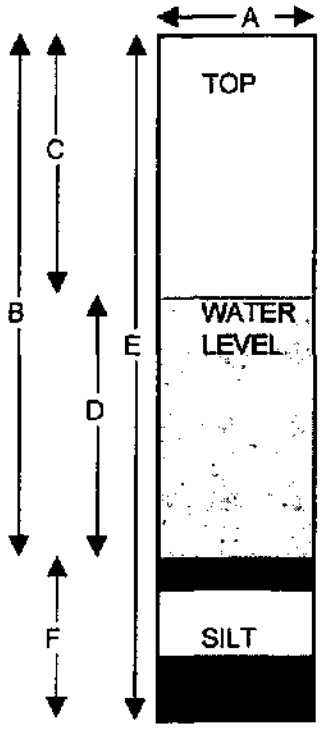
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10	feet
C.	Depth to Water	3.11	feet
D.	Length of Water Column (calculated)	6.89	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.1024	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	3.3072	gallons
	Actual Volume Evacuated	3.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	1:30 PM	1:55 PM
EH	N/A	N/A
Temperature	13.1 c	N/A
pH	8.26	8.06
Specific Cond.	455	332
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water	3.11	feet
Recharge Depth to Water	3.68	feet
2nd water column height	91.7271	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f cloudy / rain 75 f cloudy / rain

Observations:

Sampler: Paul Baltzersen

Signature: Paul Baltz

1

FOIL208225

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

Well ID.: **B-281**

ULI ID No. (enter by lab)

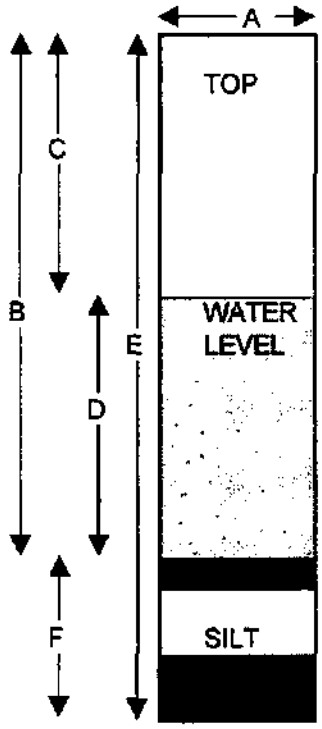
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	13.03	feet
C.	Depth to Water	5.23	feet
D.	Length of Water Column (calculated)	7.8	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.248	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	3.744	gallons
	Actual Volume Evacuated	4	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	9:35 AM	10:00 AM
EH	N/A	N/A
Temperature	15.7 c	14.0 c
pH	7.74	7.47
Specific Cond.	2150	2940
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	slightly cloudy	clear

% Recharge:

Initial Depth to Water	5.23	feet
Recharge Depth to Water	6.21	feet
2nd water column height	87.4359	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f cloudy / rain | 75 f cloudy / rain

Observations:

Sampler: Paul Baltzersen

Signature: Paul Balt

1

FOIL208226

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

Well ID.: **B-290** **MS/MSD**

ULI ID No.: (enter by lab)

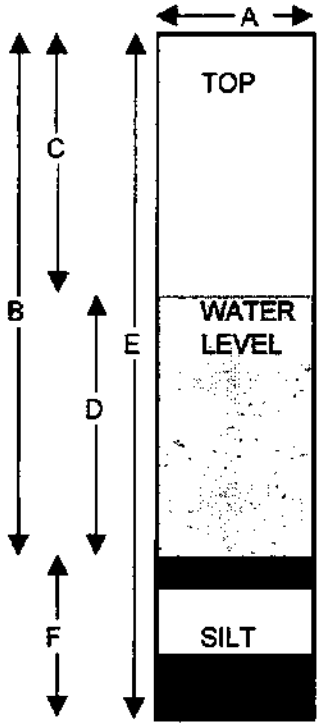
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10.26	feet
C.	Depth to Water	5.13	feet
D.	Length of Water Column (calculated)	5.13	feet
	Conversion Factor	X.16	-----
	Well Volume (calculated)	0.8208	gallons
	No. of Volumes to be Evacuated	x3	-----
	Total Volume to be Evacuated	2.4624	gallons
	Actual Volume Evacuated	3	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	10:05 AM	10:25 AM
EH	N/A	N/A
Temperature	15.7 c	15.0 c
pH	7.38	7.45
Specific Cond.	2500	1711
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	orange	clear

% Recharge:

Initial Depth to Water	5.13	feet
Recharge Depth to Water	5.53	feet
2nd water column height	92.2027	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather:	75 f cloudy / rain	75 f cloudy / rain
Observations:		

Sampler: Paul Baltzersen

Signature: Paul Baltz

1

FOIL208227

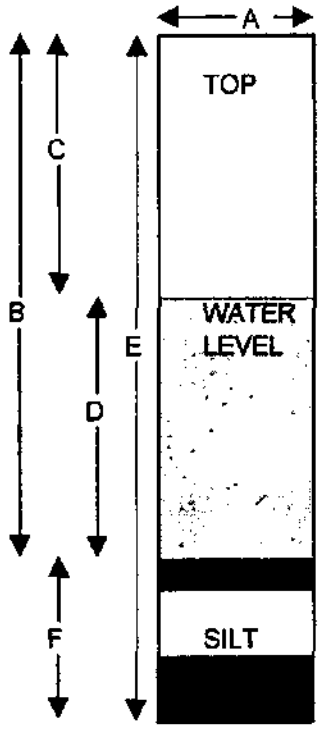
Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client:	C & S Engineers
Project:	Wabash Quarterly Wells
Well ID.:	B-402

ULI ID No. (enter by lab)

Condition of Well:	Good	Locked:	YES
Method of Evacuation:	Peristaltic Pump w/ decicated hose	Lock ID:	3210
Method of Sampling:	Peristaltic Pump w/ decicated hose		



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.24	feet
C.	Depth to Water	3.75	feet
D.	Length of Water Column (calculated)	8.49	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.3584	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	4.0752	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	11:05 AM	11:35 AM
EH	N/A	N/A
Temperature	15.2 c	14.0 c
pH	7.01	7.71
Specific Cond.	2150	2820
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water	3.75	feet
Recharge Depth to Water	4.89	feet
2nd water column height	86.5724	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather:	75 f cloudy / rain	75 f cloudy / rain
Observations:		

Sampler: Paul Baltzersen

Signature: Paul Balt

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FOIL208228

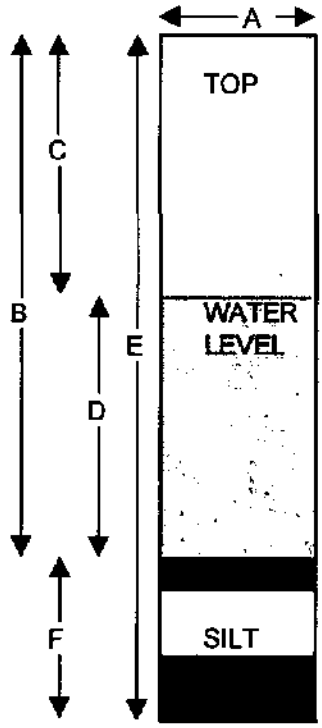
Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client:	C & S Engineers
Project:	Wabash Quarterly Wells
Well ID.:	B-403

ULI ID No. (enter by lab)

Condition of Well:	Good	Locked:	YES
Method of Evacuation:	Peristaltic Pump w/ decicated hose	Lock ID:	3303
Method of Sampling:	Peristaltic Pump w/ decicated hose		



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.26	feet
C.	Depth to Water	2.69	feet
D.	Length of Water Column (calculated)	8.57	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.3712	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	4.1136	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	10:30 AM	11:00 AM
EH	N/A	N/A
Temperature	15.9 c	15.3 c
pH	7.81	7.65
Specific Cond.	511	681
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water	2.69	feet
Recharge Depth to Water	4.03	feet
2nd water column height	84.3641	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather:	75 f cloudy / rain	75 f cloudy / rain
Observations:		

Sampler: Paul Baltzersen

Signature: Paul Baltzersen

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FOIL208229

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

Well ID.: **B-401**

ULI ID No: (enter by lab)

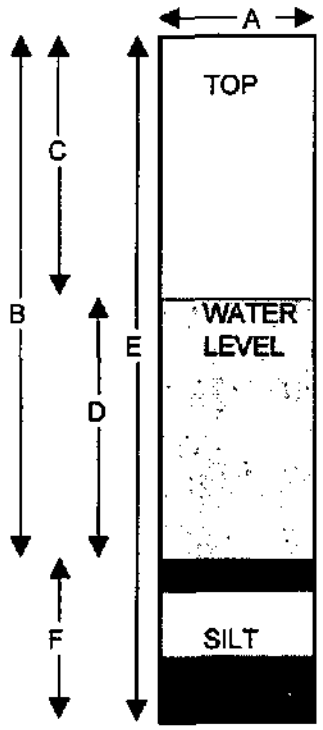
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.64	feet
C.	Depth to Water	7.38	feet
D.	Length of Water Column (calculated)	4.26	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	0.6816	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	2.0448	gallons
	Actual Volume Evacuated	2.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	12:45 PM	1:25 PM
EH	N/A	N/A
Temperature	14.4 c	15.2 c
pH	7.35	7.49
Specific Cond.	1012	1053
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	slightly cloudy

% Recharge:

Initial Depth to Water	7.38	feet
Recharge Depth to Water	7.99	feet
2nd water column height	85.6808	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f cloudy / rain | 75 f cloudy / rain

Observations:

Sampler: Paul Baltzersen

Signature: Paul Baltz

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FOIL208230

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

Well ID.: **B-291** **Dupe**

ULI ID No. (enter by lab)

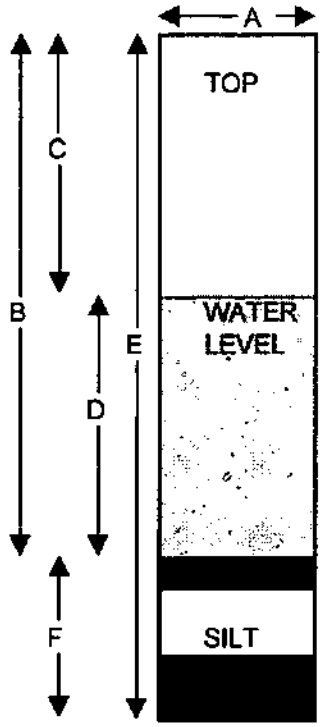
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.54	feet
C.	Depth to Water	4.51	feet
D.	Length of Water Column (calculated)	8.03	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.2848	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	3.8544	gallons
	Actual Volume Evacuated	4	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	12:10 PM	12:35 PM
EH	N/A	N/A
Temperature	12.0 c	12.6 c
pH	7.40	7.53
Specific Cond.	1161	1167
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water	4.51	feet
Recharge Depth to Water	5.22	feet
2nd water column height	91.1582	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f cloudy / rain 75 f cloudy / rain

Observations:

Sampler: Paul Baltzersen

Signature: Paul Baltzersen

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FOIL208231

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

Well ID.: B-404

ULI ID No. (enter by lab)

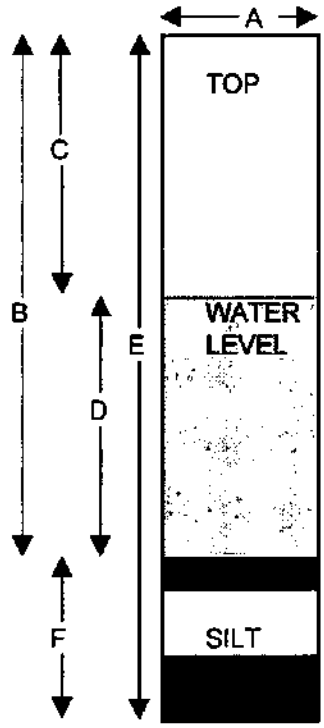
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3210

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	16.14	feet
C.	Depth to Water	3.96	feet
D.	Length of Water Column (calculated)	12.18	feet
	Conversion Factor	X.16	-----
	Well Volume (calculated)	1.9488	gallons
	No. of Volumes to be Evacuated	x3	-----
	Total Volume to be Evacuated	5.8464	gallons
	Actual Volume Evacuated	6	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	6/18/2004	6/18/2004
Time	11:40 AM	12:05 PM
EH	N/A	N/A
Temperature	13.6 c	14.5 c
pH	9.24	8.55
Specific Cond.	648	516
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	slightly cloudy	clear

% Recharge:

Initial Depth to Water	3.96	feet
Recharge Depth to Water	5.48	feet
2nd water column height	87.5205	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f cloudy / rain 75 f cloudy / rain

Observations:

Sampler: Paul Baltzersen

Signature: Paul Baltz

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FOIL208232

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

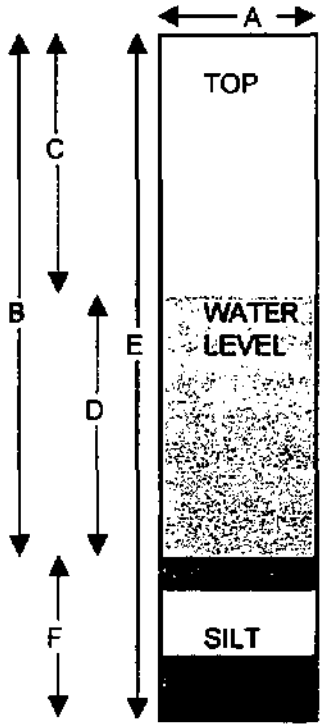
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **MW-8R** **MS/MSD**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10	feet
C.	Depth to Water	3.92	feet
D.	Length of Water Column (calculated)	6.08	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	0.9728	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	2.9184	gallons
	Actual Volume Evacuated	3	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	10:00 AM	10:30 AM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.54	7.14
Specific Cond.	702	811
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

Weather: 75 f sunny 75 f sunny

Observations:

% Recharge:

Initial Depth to Water 3.92 feet

Recharge Depth to Water 4.46 feet

2nd water column height 91.1184 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:

Paul Baltzersen / Nate Talucci

Signature: Paul Baltz

FOIL208233

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

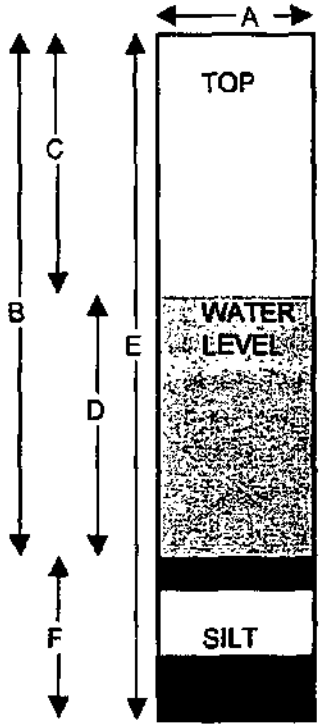
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-281**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	13.03	feet
C.	Depth to Water	4.79	feet
D.	Length of Water Column (calculated)	8.24	feet
	Conversion Factor	X.16	----
	Well Volume (calculated)	1.3184	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	3.9552	gallons
	Actual Volume Evacuated	4	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	2:00 PM	2:25 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.11	7.03
Specific Cond.	3040	2990
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	orange	clear

% Recharge:

Initial Depth to Water	4.79	feet
Recharge Depth to Water	6.11	feet
2nd water column height	83.9806	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f sunny 75 f sunny

Observations:

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltz

FOIL208234

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

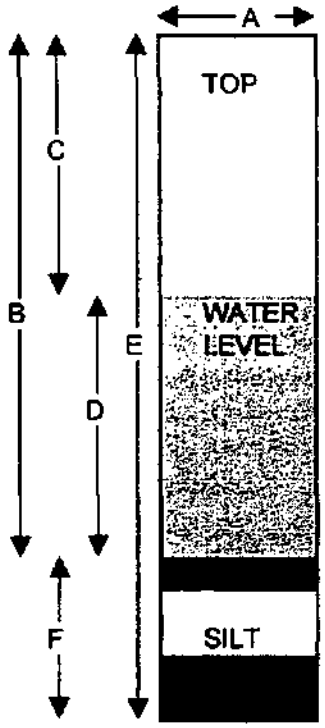
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab).

Well ID.: **B-290** **Dupe**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10.26	feet
C.	Depth to Water	5.15	feet
D.	Length of Water Column (calculated)	5.11	feet
	Conversion Factor	X.16	—
	Well Volume (calculated)	0.8176	gallons
	No. of Volumes to be Evacuated	x3	—
	Total Volume to be Evacuated	2.4528	gallons
	Actual Volume Evacuated	2.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	1:30 PM	1:50 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.12	7.24
Specific Cond.	2440	2410
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	orange	clear

% Recharge:

Initial Depth to Water	5.15	feet
Recharge Depth to Water	5.89	feet
2nd water column height	85.5186	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f sunny 75 f sunny

Observations:

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

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FOIL208235

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

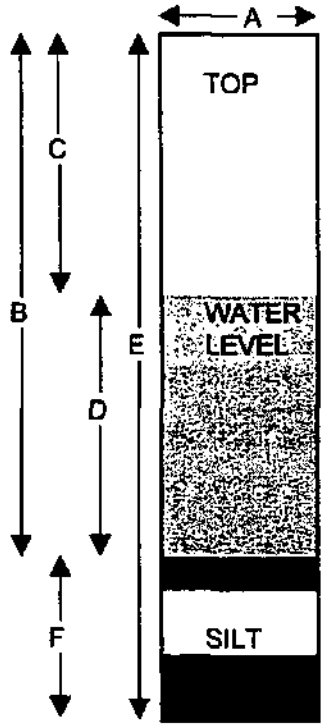
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-291**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.54	feet
C.	Depth to Water	4.08	feet
D.	Length of Water Column (calculated)	8.46	feet
	Conversion Factor	X.16	-----
	Well Volume (calculated)	1.3536	gallons
	No. of Volumes to be Evacuated	x3	----
	Total Volume to be Evacuated	4.0608	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	11:20 AM	11:50 AM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.39	7.21
Specific Cond.	1190	746
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear
Weather:	75 f sunny	75 f sunny
Observations:		

% Recharge:

Initial Depth to Water	4.08	feet
Recharge Depth to Water	6.01	feet
2nd water column height	77.1868	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

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FOIL208236

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

ULI ID No. (enter by lab)

Well ID.: **B-401**

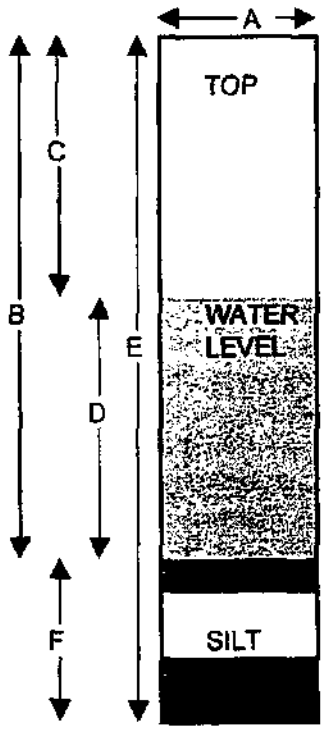
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.64	feet
C.	Depth to Water	5.99	feet
D.	Length of Water Column (calculated)	5.65	feet
	Conversion Factor	X.16	-----
	Well Volume (calculated)	0.904	gallons
	No. of Volumes to be Evacuated	x3	-----
	Total Volume to be Evacuated	2.712	gallons
	Actual Volume Evacuated	3	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	10:45 AM	11:10 AM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.12	7.11
Specific Cond.	1003	1030
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear
Weather:	75 f sunny	75 f sunny

Observations:

% Recharge:

Initial Depth to Water 5.99 feet

Recharge Depth to Water 6.67 feet

2nd water column height 87.9646 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:
Paul Baltzersen / Nate Talucci

Signature:

FOIL208237

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No. (enter by lab)

Well ID.: B-402

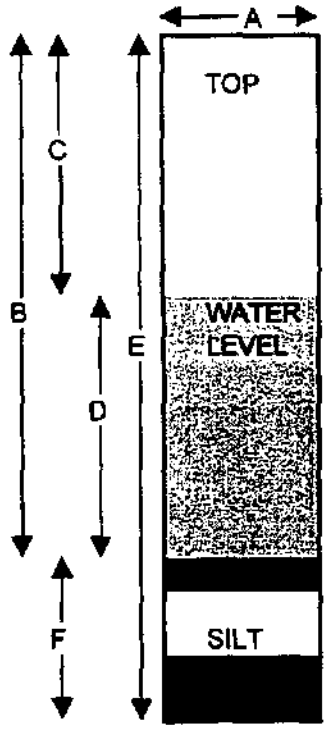
Condition of Well: WELL DESTROYED

Locked: NO

Method of Evacuation: N/A

Lock ID: 3210

Method of Sampling: N/A



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.24	feet
C.	Depth to Water	n/a	feet
D.	Length of Water Column (calculated)	n/a	feet
	Conversion Factor	X.16	—
	Well Volume (calculated)	n/a	gallons
	No. of Volumes to be Evacuated	x3	—
	Total Volume to be Evacuated	n/a	gallons
	Actual Volume Evacuated	n/a	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	12:50 PM	N/A
EH	N/A	N/A
Temperature	N/A	N/A
pH	N/A	N/A
Specific Cond.	N/A	N/A
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	N/A	N/A

% Recharge:

Initial Depth to Water	n/a	feet
Recharge Depth to Water	n/a	feet
2nd water column height	n/a	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f sunny 75 f sunny

Observations: NO SAMPLE - WELL DESTROYED
APPEARS TO HAVE BEEN DRIVEN OVER WITH
HEAVY EQUIPTMENT

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltz

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FOIL208238

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

Project: **Wabash Quarterly Wells**

ULI ID No. (enter by lab)

Well ID.: **B-403**

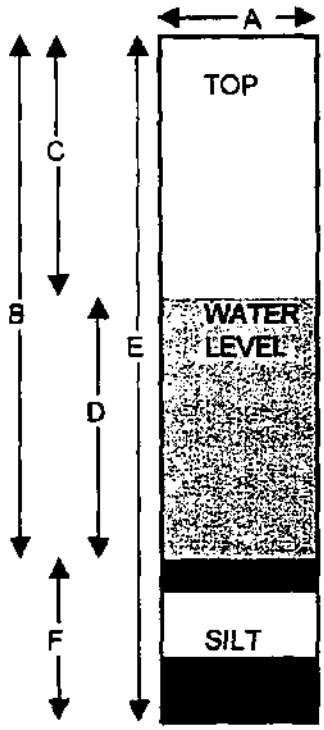
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.26	feet
C.	Depth to Water	2.87	feet
D.	Length of Water Column (calculated)	8.39	feet
	Conversion Factor	X.16	—
	Well Volume (calculated)	1.3424	gallons
	No. of Volumes to be Evacuated	x3	—
	Total Volume to be Evacuated	4.0272	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	12:55 PM	1:20 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.08	7.23
Specific Cond.	712	662
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water	2.87	feet
Recharge Depth to Water	3.96	feet
2nd water column height	87.0083	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 75 f sunny 75 f sunny

Observations:

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

1

FOIL208239

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

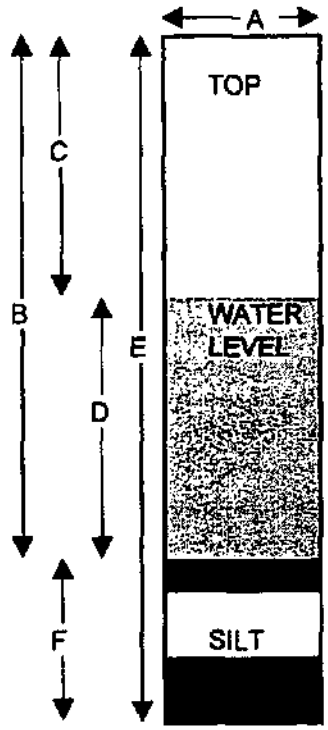
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-404**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3210

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	16.14	feet
C.	Depth to Water	5.08	feet
D.	Length of Water Column (calculated)	11.06	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.7696	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	5.3088	gallons
	Actual Volume Evacuated	5.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	9/14/2004	9/14/2004
Time	12:05 PM	12:40 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.57	7.43
Specific Cond.	552	559
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	orange	clear
Weather:	75 f sunny	75 f sunny
Observations:		

% Recharge:

Initial Depth to Water	5.08	feet
Recharge Depth to Water	7.26	feet
2nd water column height	80.2893	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nate Talucci

Signature: Paul Baltzersen

FOIL208240

National Income and Product Accounts Table

Table 1.1.9. Implicit Price Deflators for Gross Domestic Product

[Index numbers, 2000=100]

Today is: 5/11/2005 Last Revised on April 28, 2005
Next Release Date May 26, 2005

First Year 2003-A & Q Last Year 2004-A & Q Annual(A) Quarterly(Q) Refresh Table

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Line		2003	2004
1	**Gross domestic product**	**105.998**	**108.237**
2	**Personal consumption expenditures**	**105.510**	**107.827**
3	Durable goods	92.244	90.412
4	Nondurable goods	104.153	107.632
5	Services	109.237	112.001
6	**Gross private domestic investment**	**102.271**	**104.549**
7	Fixed investment	102.436	104.989
8	Nonresidential	98.547	99.341
9	Structures	110.180	115.585
10	Equipment and software	94.754	94.372
11	Residential	111.952	118.329
12	Change in private inventories	---	---
13	**Net exports of goods and services**	---	---
14	Exports	101.396	104.919
15	Goods	100.640	104.432
16	Services	103.219	106.124
17	Imports	99.615	104.553
18	Goods	98.068	102.945
19	Services	107.784	113.007
20	**Government consumption expenditures and gross investment**	**108.702**	**112.191**
21	Federal	109.082	112.221
22	National defense	109.876	112.994
23	Nondefense	107.632	110.816
24	State and local	108.485	112.180
	Addendum:		
25	Gross national product	105.992	108.232

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FOIL208241

Bureau of Economic Analysis is an agency of the U.S. Department of Commerce

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

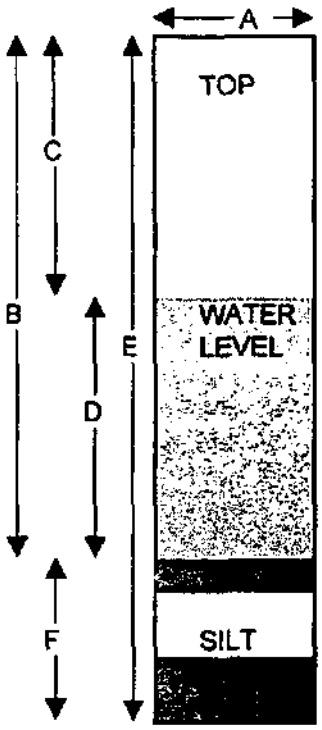
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **MW-8R**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10	feet
C.	Depth to Water	2.94	feet
D.	Length of Water Column (calculated)	7.06	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.1296	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	3.3888	gallons
	Actual Volume Evacuated	3.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	10:15 AM	10:45 AM
EH	N/A	N/A
Temperature	N/A	N/A
pH	6.88	7.36
Specific Cond.	1018	996
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	CLOUDY	CLOUDY
Weather:	30 f cloudy	30 f cloudy

Observations:

% Recharge:

Initial Depth to Water	2.94	feet
Recharge Depth to Water	3.49	feet
2nd water column height	92.2096	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Baltzersen

1

FOIL208243

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

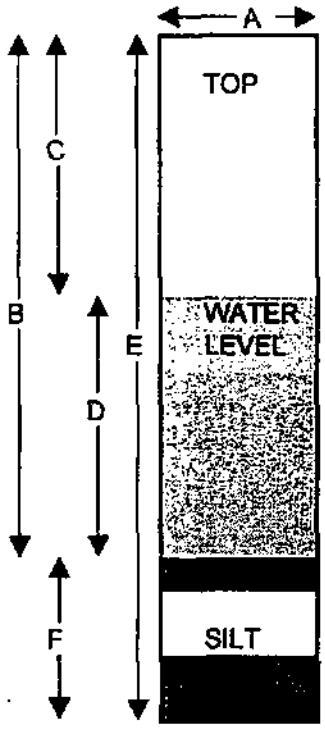
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-281**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 2537

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	13.03	feet
C.	Depth to Water	3.82	feet
D.	Length of Water Column (calculated)	9.21	feet
	Conversion Factor	X.16	—
	Well Volume (calculated)	1.4736	gallons
	No. of Volumes to be Evacuated	x3	—
	Total Volume to be Evacuated	4.4208	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	1:25 PM	1:45 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	6.99	7.39
Specific Cond.	2590	1969
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	cloudy	slightly cloudy
Weather:	30 f cloudy	30 f cloudy

Observations:

% Recharge:

Initial Depth to Water	3.82	feet
Recharge Depth to Water	4.66	feet
2nd water column height	90.8795	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Balt

FOIL208244

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

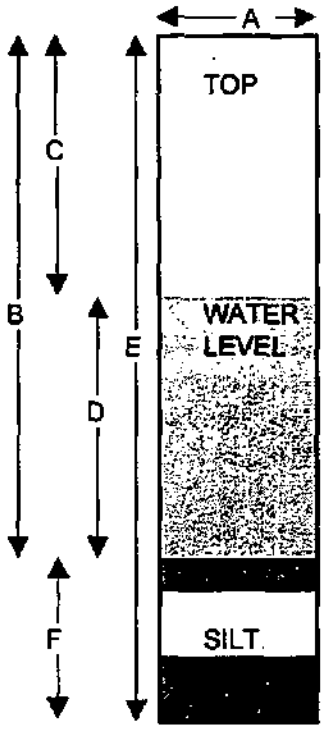
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-290**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	10.26	feet
C.	Depth to Water	4.98	feet
D.	Length of Water Column (calculated)	5.28	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	0.8448	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	2.5344	gallons
	Actual Volume Evacuated	3	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	1:50 PM	2:20 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.21	7.41
Specific Cond.	2340	1822
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	THICK ORANGE	CLEAR

% Recharge:

Initial Depth to Water	4.98	feet
Recharge Depth to Water	5.41	feet
2nd water column height	91.8561	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 30 f cloudy 30 f cloudy

Observations:

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Baltz

1

FOIL208245

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

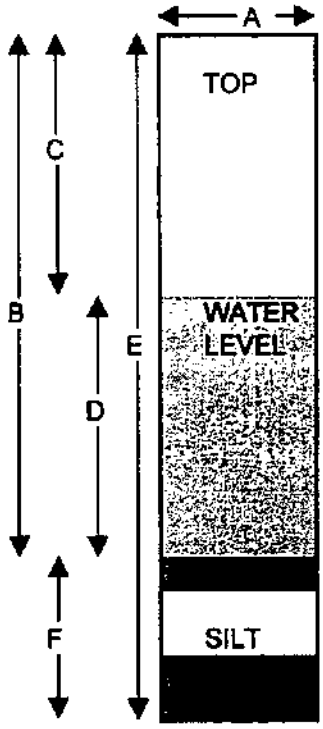
Project: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-291**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.54	feet
C.	Depth to Water	3.02	feet
D.	Length of Water Column (calculated)	9.52	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.5232	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	4.5696	gallons
	Actual Volume Evacuated	5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	10:50 AM	11:25 AM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.25	7.10
Specific Cond.	870	958
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	SLIGHTLY CLOUDY	SLIGHTLY CLOUDY

% Recharge:

Initial Depth to Water	3.02	feet
Recharge Depth to Water	4.31	feet
2nd water column height	86.4496	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 30 f cloudy 30 f cloudy

Observations:

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Bal

FOIL208246

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

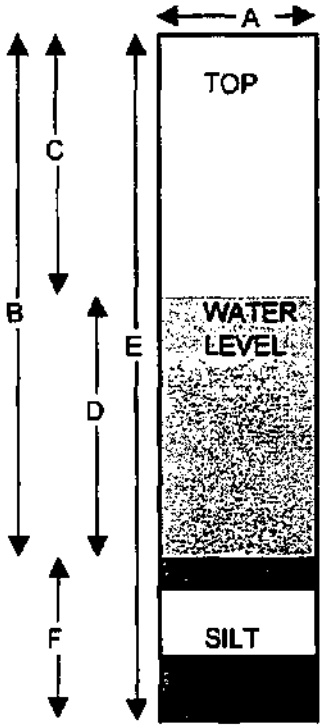
Project: **Wabash Quarterly Wells** ULI ID No. *(enter by lab)*

Well ID.: **B-401**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.64	feet
C.	Depth to Water	5.26	feet
D.	Length of Water Column (calculated)	6.38	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.0208	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	3.0624	gallons
	Actual Volume Evacuated	3.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	11:30 AM	12:15 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.42	7.21
Specific Cond.	754	937
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	SLIGHTLY CLOUDY	CLEAR
Weather:	30 f cloudy	30 f cloudy

Observations:

% Recharge:

Initial Depth to Water	5.26	feet
Recharge Depth to Water	5.98	feet
2nd water column height / 1st water column height	88.7147	%
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Baltzersen

1

FOIL208247

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **C & S Engineers**

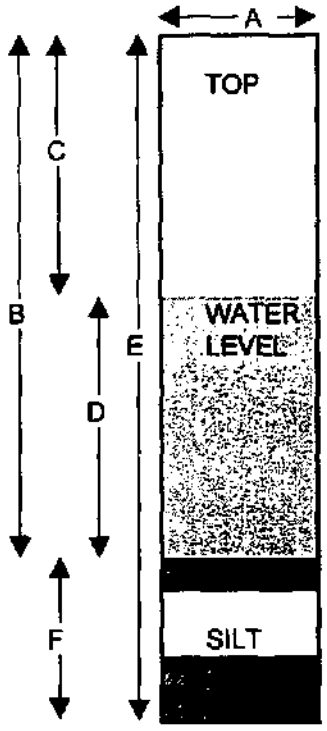
oject: **Wabash Quarterly Wells** ULI ID No. (enter by lab)

Well ID.: **B-403** ***Dupe***

Condition of Well: Good Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose Lock ID: 3303

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	11.26	feet
C.	Depth to Water	2.76	feet
D.	Length of Water Column (calculated)	8.5	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	1.36	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	4.08	gallons
	Actual Volume Evacuated	4.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	12:55 PM	1:20 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.63	7.52
Specific Cond.	609	613
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear
Weather:	30 f cloudy	30 f cloudy

Observations:

% Recharge:

Initial Depth to Water	2.76	feet
Recharge Depth to Water	3.92	feet
2nd water column height	86.3529	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:
Paul Baltzersen / Nathan Talucci

Signature: Paul B

FOIL208248

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No. (enter by lab)

Well ID.: B-404

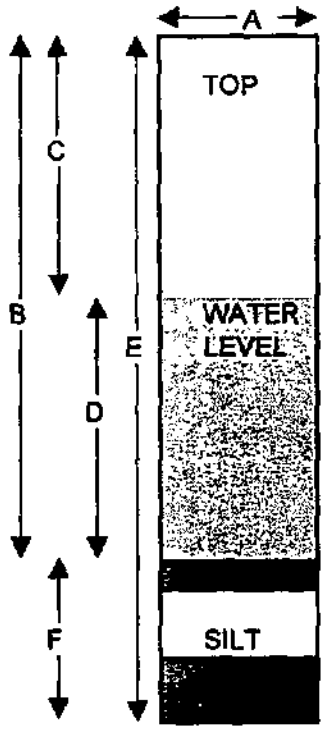
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3210

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	16.14	feet
C.	Depth to Water	3.23	feet
D.	Length of Water Column (calculated)	12.91	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	2.0656	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	6.1968	gallons
	Actual Volume Evacuated	6.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	12:20 PM	12:45 PM
EH	N/A	N/A
Temperature	N/A	N/A
pH	7.77	7.66
Specific Cond.	445	348
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	ORANGE	SLIGHTLY CLOUDY

% Recharge:

Initial Depth to Water	3.23	feet
Recharge Depth to Water	4.61	feet
2nd water column height	89.3106	%
1st water column height		

Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 30 f cloudy 30 f cloudy

Observations:

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Baltz

FOIL208249

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: C & S Engineers

Project: Wabash Quarterly Wells

ULI ID No. (enter by lab)

Well ID.: B-402

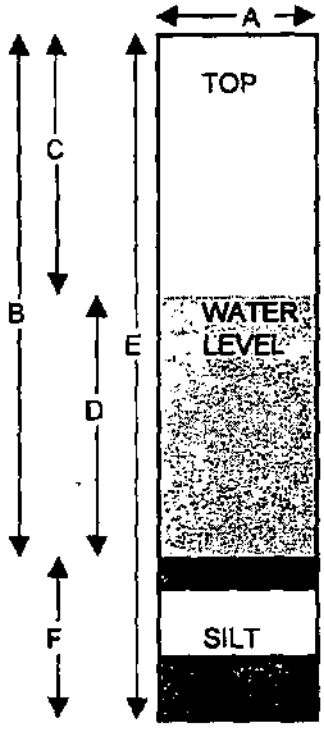
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristaltic Pump w/ decicated hose

Lock ID: 3210

Method of Sampling: Peristaltic Pump w/ decicated hose



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.24	feet
C.	Depth to Water	N/A	feet
D.	Length of Water Column (calculated)	N/A	feet
	Conversion Factor	X.16	——
	Well Volume (calculated)	N/A	gallons
	No. of Volumes to be Evacuated	x3	——
	Total Volume to be Evacuated	N/A	gallons
	Actual Volume Evacuated	N/A	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	12/8/2004	12/8/2004
Time	12:50 PM	N/A
EH	N/A	N/A
Temperature	N/A	N/A
pH	N/A	N/A
Specific Cond.	N/A	N/A
Turbidity	N/A	N/A
Dissolved Oxygen	N/A	N/A
Appearance	N/A	N/A

% Recharge:

Initial Depth to Water	N/A	feet
Recharge Depth to Water	N/A	feet
2nd water column height / 1st water column height	N/A	%
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 30 f cloudy 30 f cloudy

Observations:

NO SAMPLE - WELL DESTROYED

Sampler: Paul Baltzersen / Nathan Talucci

Signature: Paul Baltz

1

FOIL208250

APPENDIX B

Analytical Laboratory Data Sheets

Upstate Laboratories inc.

Shipping: 6034 Corporate Dr. • E. Syracuse, NY 13057-1017 • (315) 437-0255 • Fax (315) 437-1209
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New Jersey (201) 343-5353

April 28, 2004

Mr. Thomas A. Barba
Senior Project Scientist
C & S Engineers, P.C.
1099 Airport Blvd.
N. Syracuse, NY 13212

Re: Analysis Report #09204003 - Quarterly Wabash Wells

Dear Mr. Barba:

Please find enclosed the results for your samples which were collected by ULI personnel on March 31, 2004.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

AJS/jd

Enclosures: report, field data, invoice

cc/encs: N. Scala, ULI
file

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 04/28/04

ostate Laboratories, Inc.
Analysis Results
Report Number: 09204003
lient I.D.: C & S ENGINEERS, P.C.
ampled by: ULI

APPROVAL: GS
QC: mmd
Lab I.D.: 10170

QRTLY WABASH WELLS
MW-8R 1345H 03/31/04 G

ULI I.D.: 09204003 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.91SU		03/31/04			FIELD
	Field Specific Conductivity	531umhos/cm		03/31/04			FIELD
Total	Lead by Low Level	0.002mg/l		04/07/04			MB6172
Dissolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	2.6ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	2.6ug/l		04/09/04			GA2453

DATE: 04/28/04

pstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
lient I.D.: C & S ENGINEERS, P.C.
ampled by: ULI

APPROVAL: A/S
QC: MMJ
Lab I.D.: 10170

QRTLY WABASH WELLS
B281 1025H 03/31/04 G

ULI I.D.: 09204004 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.18SU		03/31/04			FIELD
	Field Specific Conductivity	2230umhos/cm		03/31/04			FIELD
Total	Arsenic by Low Level	0.031mg/l		04/07/04			MB6171
Total	Barium	<0.3mg/l		04/06/04			MB6169
Total	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
issolved	Arsenic by Low Level	0.017mg/l		04/07/04			MB6171
Dissolved	Barium	<0.3mg/l		04/06/04			MB6169
Dissolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	<0.05ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

Estate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: GS
QC: MM
Lab I.D.: 10170

QRTLY WABASH WELLS
B290 1050H 03/31/04 G

ULI I.D.: 09204005 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.49SU		03/31/04			FIELD
	Field Specific Conductivity	1590umhos/cm		03/31/04			FIELD
Total	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
Dissolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	<0.05ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

pstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
lient I.D.: C & S ENGINEERS, P.C.
ampled by: ULI

APPROVAL: GJS
QC: MM
Lab I.D.: 10170

QRTLY WABASH WELLS
B291 1305H 03/31/04 G

ULI I.D.: 09204006 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.31SU		03/31/04			FIELD
	Field Specific Conductivity	860umhos/cm		03/31/04			FIELD
Total	Arsenic by Low Level	0.020mg/l		04/07/04			MB6171
Total	Lead by Low Level	0.002mg/l		04/07/04			MB6172
issolved	Arsenic by Low Level	0.016mg/l		04/07/04			MB6171
issolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	<0.05ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

Estate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: JS
QC: MMJ
Lab I.D.: 10170

QRTLY WABASH WELLS
B401 1330H 03/31/04 G

ULI I.D.: 09204007 Matrix: Water

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Field pH	7.48SU		03/31/04			FIELD
Field Specific Conductivity	785umhos/cm		03/31/04			FIELD
Total Lead by Low Level	0.004mg/l		04/07/04			MB6172
Dissolved Lead by Low Level	<0.001mg/l		04/07/04			MB6172
PCB (Aroclors) by EPA Method 8082						
Aroclor 1016	<0.05ug/l		04/09/04			GA2453
Aroclor 1221	<0.05ug/l		04/09/04			GA2453
Aroclor 1232	<0.05ug/l		04/09/04			GA2453
Aroclor 1242	<0.05ug/l		04/09/04			GA2453
Aroclor 1248	<0.05ug/l		04/09/04			GA2453
Aroclor 1254	<0.05ug/l		04/09/04			GA2453
Aroclor 1260	<0.05ug/l		04/09/04			GA2453
Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: GJS
QC: MMJ
Lab I.D.: 10170

QRTLY WABASH WELLS
B402 1220H 03/31/04 G

ULI I.D.: 09204008 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	8.98SU		03/31/04			FIELD
	Field Specific Conductivity	1892umhos/cm		03/31/04			FIELD
Total	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
Dissolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	<0.05ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: QLS
QC: MMT
Lab I.D.: 10170

QRTLY WABASH WELLS
B403 1135H 03/31/04 G

ULI I.D.: 09204009 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.44SU		03/31/04			FIELD
	Field Specific Conductivity	296umhos/cm		03/31/04			FIELD
Total	Lead by Low Level	0.003mg/l		04/07/04			MB6172
Dissolved	Lead by Low Level	0.002mg/l		04/07/04			MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	<0.05ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: CS
QC: MM
Lab I.D.: 10170

QRTLY WABASH WELLS
B404 1240H 03/31/04 G

ULI I.D.: 09204010 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	8.14SU		03/31/04			FIELD
	Field Specific Conductivity	286umhos/cm		03/31/04			FIELD
Total	Lead by Low Level	0.001mg/l		04/07/04			MB6172
Dissolved	Lead by Low Level	0.002mg/l		04/07/04		15	MB6172
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.05ug/l		04/09/04			GA2453
	Aroclor 1221	<0.05ug/l		04/09/04			GA2453
	Aroclor 1232	<0.05ug/l		04/09/04			GA2453
	Aroclor 1242	<0.05ug/l		04/09/04			GA2453
	Aroclor 1248	<0.05ug/l		04/09/04			GA2453
	Aroclor 1254	<0.05ug/l		04/09/04			GA2453
	Aroclor 1260	<0.05ug/l		04/09/04			GA2453
	Total PCB	<0.05ug/l		04/09/04			GA2453

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: CJS
QC: MM
Lab I.D.: 10170

QRTLY WABASH WELLS
B107 1425H 03/31/04 G

ULI I.D.: 09204011 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.81SU		03/31/04			FIELD
	Field Specific Conductivity	543umhos/cm		03/31/04			FIELD
Total	Barium	0.5mg/l		04/06/04			MB6169
Dissolved	Barium	0.3mg/l		04/06/04			MB6169

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: CJS
QC: MMJ
Lab I.D.: 10170

QRTLY WABASH WELLS
B108 1405H 03/31/04 G

ULI I.D.: 09204012 Matrix: Water

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Field pH	7.55SU		03/31/04			FIELD
	Field Specific Conductivity	1546umhos/cm		03/31/04			FIELD
Total	Barium	0.5mg/l		04/06/04			MB6169
Dissolved	Barium	0.4mg/l		04/06/04			MB6169

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: GS
QC: MMD
Lab I.D.: 10170
QRTLY WABASH WELLS
MW-8R DUPE 1345H 03/31/04 G

ULI I.D.: 09204013 Matrix: Water

PARAMETERS		RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Total	Lead by Low Level	0.002mg/l		04/07/04			MB6172
Dissolved	Lead by Low Level	0.002mg/l		04/07/04			MB6172
PCB (Aroclors) by EPA Method 8082							
	Aroclor 1016	<0.05ug/l		04/15/04			GA2463
	Aroclor 1221	<0.05ug/l		04/15/04			GA2463
	Aroclor 1232	<0.05ug/l		04/15/04			GA2463
	Aroclor 1242	<0.05ug/l		04/15/04			GA2463
	Aroclor 1248	<0.05ug/l		04/15/04			GA2463
	Aroclor 1254	2.6ug/l		04/15/04			GA2463
	Aroclor 1260	<0.05ug/l		04/15/04			GA2463
	Total PCB	2.6ug/l		04/15/04			GA2463

DATE: 04/28/04

pstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
lient I.D.: C & S ENGINEERS, P.C.
ampled by: ULI

APPROVAL: CJS
QC: MMJ
Lab I.D.: 10170

QRTLY WABASH WELLS
EQUIPMENT BLANK 1430H 03/31/04 G

ULI I.D.: 09204014 Matrix: Water

PARAMETERS		RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Total	Arsenic by Low Level	<0.010mg/l		04/07/04			MB6171
Total	Barium	<0.3mg/l		04/06/04			MB6169
Total	Lead by Low Level	<0.001mg/l		04/07/04			MB6172
Dissolved	Arsenic by Low Level	<0.010mg/l		04/07/04			MB6171
issolved	Barium	<0.3mg/l		04/06/04			MB6169
issolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172

DATE: 04/28/04

Upstate Laboratories, Inc.
Analysis Results
Report Number: 09204003
Client I.D.: C & S ENGINEERS, P.C.
Sampled by: ULI

APPROVAL: CJS
QC: MMJ
Lab I.D.: 10170

QRTLY WABASH WELLS
FILTER BLANK 1435H 03/31/04 G

ULI I.D.: 09204015 Matrix: Water

PARAMETERS		RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Dissolved	Arsenic by Low Level	<0.010mg/l		04/07/04			MB6171
Dissolved	Barium	<0.3mg/l		04/06/04			MB6169
Dissolved	Lead by Low Level	<0.001mg/l		04/07/04			MB6172

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 REFERENCE SAMPLE/CCV RECOVERY WAS OUTSIDE OF CONTROL LIMITS
3 METHOD BLANK RESULT WAS ABOVE THE CONTROL LIMITS
4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
9 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
10 RESULTS ARE REPORTED ON AN AS REC.D BASIS
11 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE
14 SAMPLED BY ULI
15 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE WITHIN EXPERIMENTAL ERROR
16 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
19 CALCULATION BASED ON DRY WEIGHT
20 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION LIMITS
21 UG/KG AS REC.D / UG/KG DRY WT
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 DUPLICATE SAMPLE OUTSIDE QC CRITERIA
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
34 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
(B) DETECTED IN BLANK
(D) ALL COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR
(E) COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT FOR THAT SPECIFIC ANALYSIS
(J) DETECTED BELOW THE CRQL
(a) SAMPLE(S) RECEIVED AT THE IMPROPER TEMPERATURE
(b) HEADSPACE IN VOA VIAL(S)
(c) HEADSPACE IN ALKALINITY BOTTLE(S)
(d) SAMPLE CONTAINER(S) RECEIVED BROKEN

Upstate Laboratories, Inc. — Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

4/12

Client: C&S ENGINEERS
Project #/ Project Name: QUARTERLY WABASH WELLS
Client Contact: RORY WOODMANSEE
Phone #:
Location (city/state) Address: SYRACUSE, NY

Sample ID	Date	Time	Matrix	GRAB OR COMP	ULI Internal Use Only	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
MW-8R	3-31-04	1:45P	H2O	GRAB	M204003	3	X	X	X							X	9-1534
B281		10:25A	H2O	GRAB	4	5			X	X	X					X	MS/MSD 9-1536
B290		10:50A	H2O	GRAB	5	3	X	X	X							X	~~9-1537~~
B291		1:05P	H2O	GRAB	6	3			X					X	X	X	9-1531
B401		1:30P	H2O	GRAB	7	3	X	X	X							X	
B402		12:20P	H2O	GRAB	8	3	X	X	X							X	
B403		11:35A	H2O	GRAB	9	3	X	X	X							X	
B404		12:40P	H2O	GRAB	10	3	X	X	X							X	
B107		2:25P	H2O	GRAB	11	2						X	X			X	9-1535
B108		2:05P	H2O	GRAB	12	2						X	X			X	
MW-8R DUPE		1:45P	H2O	GRAB	13	3	X	X	X							X	
EQUIPMENT BLANK		2:30P	H2O		14	3				X	X					X	
FILTER BLANK		2:35P	H2O		15	1					X						9-1537

	Parameter and Method	Sample bottle: Type	Size	Preservative
1	T-PB*	PLASTIC	500 ML	HNO3
2	D-PB*	PLASTIC	500 ML	HNO3
3	PCB (EPA 8082)	GLASS	1000 ML	NONE
4	T-AS,BA,PB*	PLASTIC	500 ML	HNO3
5	D-AS,BA,PB*	PLASTIC	500 ML	HNO3
6	T-BA	PLASTIC	500 ML	HNO3
7	D-BA	PLASTIC	500 ML	HNO3
8	T-AS,PB*	PLASTIC	500 ML	HNO3
9	D-AS,PB*	PLASTIC	500 ML	HNO3
10	FIELD PH, COND	N/A	N/A	N/A

Sampled by (Print): PAUL BALTZERSEN
Company: ULI
Name of Courier:

Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Rec'd for Lab by:
[signature]	3/31/04	2:45 P	[signature]

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Thomas Barba, Snr Proj Scientist
C & S Engineers, P.C.
1099 Airport Blvd.
N. Syracuse, NY 13212

Tuesday, July 13, 2004

RE: Quarterly Wabash Wells

Order No.: U0406470

Dear Mr. Thomas Barba, Snr Proj Scientist:

Upstate Laboratories, Inc. received 11 sample(s) on 6/18/04 for the analyses presented in the following report.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

Upstate Laboratories, Inc.

Date: *13-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-001 **Collection Date:** 6/18/04 1:55:00 PM
Client Sample ID: MW-8R **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	332	1.0		umhos/cm		6/18/04 1:55:00 PM
pH	8.06	6.5-8.5		SU		6/18/04 1:55:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		E239.2		(SW3020A)		Analyst: ES
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: ES
Lead*	0.002	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-002 **Collection Date:** 6/18/04 10:00:00 AM
Client Sample ID: B281 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	2940	1.0		umhos/cm		6/18/04 10:00:00 AM
pH	7.47	6.5-8.5		SU		6/18/04 10:00:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		E239.2		(SW3020A)		Analyst: ES
Lead*	0.001	0.001	27	mg/L	1	6/29/04
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: ES
Lead*	ND	0.001		mg/L	1	6/29/04

Approved By: TS **Date:** 7-9-04

Qualifiers:
- * Low Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Upstate Laboratories, Inc.

Date: *13-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-003 **Collection Date:** 6/18/04 10:25:00 AM
Client Sample ID: B290 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	1711	1.0		umhos/cm		6/18/04 10:25:00 AM
pH	7.45	6.5-8.5		SU		6/18/04 10:25:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		E239.2		(SW3020A)		Analyst: ES
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: ES
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-004 **Collection Date:** 6/18/04 12:35:00 PM
Client Sample ID: B291 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	1167	1.0		umhos/cm		6/18/04 12:35:00 PM
pH	7.53	6.5-8.5		SU		6/18/04 12:35:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		E239.2		(SW3020A)		Analyst: ES
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: ES
Lead*	0.001	0.001		mg/L	1	6/29/04

Approved By: TS **Date:** 7-9-04

Qualifiers:
- * Low Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Upstate Laboratories, Inc.

Date: *13-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-005 **Collection Date:** 6/18/04 1:25:00 PM
Client Sample ID: B401 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	1053	1.0		umhos/cm		6/18/04 1:25:00 PM
pH	7.49	6.5-8.5		SU		6/18/04 1:25:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.031	0.001		mg/L	1	6/29/04

Lab ID: U0406470-006 **Collection Date:** 6/18/04 11:35:00 AM
Client Sample ID: B402 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	2820	1.0		umhos/cm		6/18/04 11:35:00 AM
pH	7.71	6.5-8.5		SU		6/18/04 11:35:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.002	0.001	27	mg/L	1	6/29/04

Approved By: TS **Date:** 7-9-04

Qualifiers:
- * Low Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Upstate Laboratories, Inc.

Date: *13-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-007 **Collection Date:** 6/18/04 11:00:00 AM
Client Sample ID: B403 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	681	1.0		umhos/cm		6/18/04 11:00:00 AM
pH	7.85	6.5-8.5		SU		6/18/04 11:00:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.002	0.001	27,15	mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-008 **Collection Date:** 6/18/04 12:05:00 PM
Client Sample ID: B404 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	516	1.0		umhos/cm		6/18/04 12:05:00 PM
pH	8.55	6.5-8.5		SU		6/18/04 12:05:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Approved By: TS **Date:** 7-9-04

Qualifiers:
- * Low Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Upstate Laboratories, Inc.

Date: *13-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-009 **Collection Date:** 6/18/04 12:35:00 PM
Client Sample ID: B291 Dupe **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		**Analyst: BW**
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		**Analyst: ES**
Lead*	0.001	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		**Analyst: ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-010 **Collection Date:** 6/18/04 2:00:00 PM
Client Sample ID: Equipment Blank **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		**Analyst: BW**
Aroclor 1016	ND	5.0		µg/L	1	6/28/04
Aroclor 1221	ND	5.0		µg/L	1	6/28/04
Aroclor 1232	ND	5.0		µg/L	1	6/28/04
Aroclor 1242	ND	5.0		µg/L	1	6/28/04
Aroclor 1248	ND	5.0		µg/L	1	6/28/04
Aroclor 1254	ND	5.0		µg/L	1	6/28/04
Aroclor 1260	ND	5.0		µg/L	1	6/28/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		**Analyst: ES**
Lead*	0.002	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		**Analyst: ES**
Lead*	0.002	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-011 **Collection Date:** 6/18/04 2:05:00 PM
Client Sample ID: Filter Blank **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY GFAA		**E239.2**		**(SW3020A)**		**Analyst: ES**
Lead*	0.001	0.001		mg/L	1	6/29/04

Approved By: TS **Date:** 7-9-04

Qualifiers:
- * Low Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 REFERENCE SAMPLE/CCV RECOVERY WAS OUTSIDE OF CONTROL LIMITS
3 METHOD BLANK RESULT WAS ABOVE THE CONTROL LIMITS
4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
9 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
10 RESULTS ARE REPORTED ON AN AS REC.D BASIS
11 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE
14 SAMPLED BY ULI
15 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE WITHIN EXPERIMENTAL ERROR
16 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
19 CALCULATION BASED ON DRY WEIGHT
20 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION LIMITS
21 UG/KG AS REC.D / UG/KG DRY WT
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 DUPLICATE SAMPLE OUTSIDE QC CRITERIA
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
34 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
(B) DETECTED IN BLANK
(D) ALL COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR
(E) COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT FOR THAT SPECIFIC ANALYSIS
(J) DETECTED BELOW THE CRQL
(a) SAMPLE(S) RECEIVED AT THE IMPROPER TEMPERATURE
(b) HEADSPACE IN VOA VIAL(S)
(c) HEADSPACE IN ALKALINITY BOTTLE(S)
(d) SAMPLE CONTAINER(S) RECEIVED BROKEN

Upstate Laboratories, Inc. — Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client: C&S ENGINEERS
Project #/ Project Name: QUARTERLY WABASH WELLS
Client Contact: RORY WOODMANSEE
Phone #:
Location (city/state) Address: SYRACUSE, NY

Sample ID	Date	Time	Matrix	GRAB OR COMP	ULI Internal Use Only (1040604-70)	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
MW-8R	6-18-04	1:55P	H2O	GRAB	-001	3	X	X	X	X							
B281		10:00A	H2O	GRAB	-002	3	X	X	X	X							
B290		10:25A	H2O	GRAB	-003	5	X	X	X	X							MS/MSD
B291		12:35P	H2O	GRAB	-004	3	X	X	X	X							
B401		1:25P	H2O	GRAB	-005	3	X	X	X	X							
B402		11:35A	H2O	GRAB	-006	3	X	X	X	X							
B403		11:00A	H2O	GRAB	-007	3	X	X	X	X							
B404		12:05P	H2O	GRAB	-008	3	X	X	X	X							
B291 DUPE		12:35P	H2O	GRAB	-009	3	X	X	X								
EQUIPMENT BLANK		2:00P	H2O	GRAB	-010	3	X	X	X								
FILTER BLANK		2:05P	H2O	GRAB	-011	1		X									

	Parameter and Method	Sample bottle: Type	Size	Preservative
1	T-PB*	PLASTIC	500 ML	HNO3
2	D-PB*	PLASTIC	500 ML	HNO3
3	PCB (EPA 8082)	GLASS	1000 ML	NONE
4	FIELD PH, COND	N/A	N/A	N/A
5				
6				
7				
8				
9				
10				

Sampled by (Print): PAUL BALTZERSEN
Company: ULI

Relinquished by: (sign)	Date	Time	Received by: (sign)
Relinquished by: (sign)	Date	Time	Received by: (sign)
Relinquished by: (sign)	Date	Time	Rec'd for Lab by:
Paul Baltz	6/18/04	2:45 P	R Crump

Name of Courier:

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

FOIL208275

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Thomas Barba, Snr Proj Scientist
C & S Engineers, P.C.
1099 Airport Blvd.
N. Syracuse, NY 13212

Tuesday, July 27, 2004

Re: Quarterly Wabash Wells
(Amended)

Order No.: U0406470

Dear Mr. Thomas Barba, Snr Proj Scientist:

Per your conversation with my office, please find enclosed the amended report pages for the above mentioned. The detection limit for the PCBs now have been corrected.

We apologize for any inconvenience this may have caused you.

Should you have any questions, please feel free to give me a call

Thank you for your time.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

Upstate Laboratories, Inc.

Date: *27-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-001 **Collection Date:** 6/18/04 1:55:00 PM
Client Sample ID: MW-8R **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	332	1.0		umhos/cm		6/18/04 1:55:00 PM
pH	8.06	6.5-8.5		SU		6/18/04 1:55:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	0.32	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		E239.2		(SW3020A)		Analyst: ES
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: ES
Lead*	0.002	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-002 **Collection Date:** 6/18/04 10:00:00 AM
Client Sample ID: B281 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	2940	1.0		umhos/cm		6/18/04 10:00:00 AM
pH	7.47	6.5-8.5		SU		6/18/04 10:00:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		E239.2		(SW3020A)		Analyst: ES
Lead*	0.001	0.001	27,15	mg/L	1	6/29/04
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: ES
Lead*	ND	0.001		mg/L	1	6/29/04

Approved By: TC **Date:** 7-23-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *27-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-003 **Collection Date:** 6/18/04 10:25:00 AM
Client Sample ID: B290 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	1711	1.0		umhos/cm		6/18/04 10:25:00 AM
pH	7.45	6.5-8.5		SU		6/18/04 10:25:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-004 **Collection Date:** 6/18/04 12:35:00 PM
Client Sample ID: B291 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	1167	1.0		umhos/cm		6/18/04 12:35:00 PM
pH	7.53	6.5-8.5		SU		6/18/04 12:35:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001		mg/L	1	6/29/04

Approved By: TC **Date:** 7-23-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *27-Jul-04*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0406470

Lab ID: U0406470-005 **Collection Date:** 6/18/04 1:25:00 PM
Client Sample ID: B401 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	1053	1.0		umhos/cm		6/18/04 1:25:00 PM
pH	7.49	6.5-8.5		SU		6/18/04 1:25:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.031	0.001		mg/L	1	6/29/04

Lab ID: U0406470-006 **Collection Date:** 6/18/04 11:35:00 AM
Client Sample ID: B402 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	2820	1.0		umhos/cm		6/18/04 11:35:00 AM
pH	7.71	6.5-8.5		SU		6/18/04 11:35:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.002	0.001	27	mg/L	1	6/29/04

Approved By: TC **Date:** 7-23-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *27-Jul-04*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0406470

Lab ID: U0406470-007
Collection Date: 6/18/04 11:00:00 AM
Client Sample ID: B403
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	681	1.0		umhos/cm		6/18/04 11:00:00 AM
pH	7.65	6.5-8.5		SU		6/18/04 11:00:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.002	0.001	27,15	mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-008
Collection Date: 6/18/04 12:05:00 PM
Client Sample ID: B404
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	516	1.0		umhos/cm		6/18/04 12:05:00 PM
pH	8.55	6.5-8.5		SU		6/18/04 12:05:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	ND	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Approved By: TC **Date:** 7-23-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *27-Jul-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0406470
Project: Quarterly Wabash Wells

Lab ID: U0406470-009 **Collection Date:** 6/18/04 12:35:00 PM
Client Sample ID: B291 Dupe **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-010 **Collection Date:** 6/18/04 2:00:00 PM
Client Sample ID: Equipment Blank **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	6/28/04
Aroclor 1221	ND	0.050		µg/L	1	6/28/04
Aroclor 1232	ND	0.050		µg/L	1	6/28/04
Aroclor 1242	ND	0.050		µg/L	1	6/28/04
Aroclor 1248	ND	0.050		µg/L	1	6/28/04
Aroclor 1254	ND	0.050		µg/L	1	6/28/04
Aroclor 1260	ND	0.050		µg/L	1	6/28/04
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.002	0.001		mg/L	1	6/29/04
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.002	0.001	27	mg/L	1	6/29/04

Lab ID: U0406470-011 **Collection Date:** 6/18/04 2:05:00 PM
Client Sample ID: Filter Blank **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LEAD BY GFAA (DISSOLVED)		**E239.2**		**(SW3020A)**		Analyst: **ES**
Lead*	0.001	0.001		mg/L	1	6/29/04

Approved By: TC **Date:** 7-23-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-

Mr. Thomas Barba, Snr Proj Scientist
C & S Engineers, P.C.
1099 Airport Blvd.
N. Syracuse, NY 13212

Wednesday, October 06, 2004

RE: Quarterly Wabash Wells

Order No.: U0409286

Dear Mr. Thomas Barba, Snr Proj Scientist:

Upstate Laboratories, Inc. received 10 sample(s) on 9/14/04 for the analyses presented in the following report.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

Upstate Laboratories, Inc.

Date: *06-Oct-04*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0409286

Lab ID: U0409286-001 **Collection Date:** 9/14/04 10:30:00 AM
Client Sample ID: MW-8R **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	811	1.0		umhos/cm		9/14/04 10:30:00 AM
pH	7.14	6.5-8.5		SU		9/14/04 10:30:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	5.0		µg/L	1	9/30/04
Aroclor 1221	ND	5.0		µg/L	1	9/30/04
Aroclor 1232	ND	5.0		µg/L	1	9/30/04
Aroclor 1242	ND	5.0		µg/L	1	9/30/04
Aroclor 1248	ND	5.0		µg/L	1	9/30/04
Aroclor 1254	ND	5.0		µg/L	1	9/30/04
Aroclor 1260	ND	5.0		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.002	0.001	15	mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM

Lab ID: U0409286-002 **Collection Date:** 9/14/04 2:25:00 PM
Client Sample ID: B281 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	2990	1.0		umhos/cm		9/14/04 2:25:00 PM
pH	7.03	6.5-8.5		SU		9/14/04 2:25:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM

Approved By: TC **Date:** 10-6-04

Qualifiers:
- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *06-Oct-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0409286
Project: Quarterly Wabash Wells

Lab ID: U0409286-003 **Collection Date:** 9/14/04 1:50:00 PM
Client Sample ID: B290 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	2410	1.0		umhos/cm		9/14/04 1:50:00 PM
pH	7.24	6.5-8.5		SU		9/14/04 1:50:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.008	0.001		mg/L	1	9/22/04 9:00:00 AM

Lab ID: U0409286-004 **Collection Date:** 9/14/04 11:50:00 AM
Client Sample ID: B291 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	746	1.0		umhos/cm		9/14/04 11:50:00 AM
pH	7.21	6.5-8.5		SU		9/14/04 11:50:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.003	0.001		mg/L	1	9/22/04 9:00:00 AM

Approved By: TC **Date:** 10-6-04

Qualifiers:
- * Low Level
- ** Value exceeds Maximum Contaminant Value
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *06-Oct-04*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0409286

Lab ID: U0409286-005
Client Sample ID: B401
Collection Date: 9/14/04 11:10:00 AM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	1030	1.0		umhos/cm		9/14/04 11:10:00 AM
pH	7.11	6.5-8.5		SU		9/14/04 11:10:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	0.005	0.001		mg/L	1	9/22/04 9:00:00 AM

Lab ID: U0409286-006
Client Sample ID: B403
Collection Date: 9/14/04 1:20:00 PM
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	662	1.0		umhos/cm		9/14/04 1:20:00 PM
pH	7.23	6.5-8.5		SU		9/14/04 1:20:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	0.001	0.001		mg/L	1	9/22/04 9:00:00 AM

Approved By: TC **Date:** 10-6-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *06-Oct-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0409286
Project: Quarterly Wabash Wells

Lab ID: U0409286-007 **Collection Date:** 9/14/04 12:40:00 PM
Client Sample ID: B404 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	559	1.0		umhos/cm		9/14/04 12:40:00 PM
pH	7.43	6.5-8.5		SU		9/14/04 12:40:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.002	0.001		mg/L	1	9/22/04 9:00:00 AM

Lab ID: U0409286-008 **Collection Date:** 9/14/04 1:50:00 PM
Client Sample ID: B290 Dupe **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.005	0.001		mg/L	1	9/22/04 9:00:00 AM

Approved By: TC **Date:** 10-6-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *06-Oct-04*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0409286
Project: Quarterly Wabash Wells

Lab ID: U0409286-009 **Collection Date:** 9/14/04 2:35:00 PM
Client Sample ID: Equipment Blank **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	9/30/04
Aroclor 1221	ND	0.050		µg/L	1	9/30/04
Aroclor 1232	ND	0.050		µg/L	1	9/30/04
Aroclor 1242	ND	0.050		µg/L	1	9/30/04
Aroclor 1248	ND	0.050		µg/L	1	9/30/04
Aroclor 1254	ND	0.050		µg/L	1	9/30/04
Aroclor 1260	ND	0.050		µg/L	1	9/30/04
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM
LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM

Lab ID: U0409286-010 **Collection Date:** 9/14/04 2:40:00 PM
Client Sample ID: Filter Blank **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	9/22/04 9:00:00 AM

Approved By: TC **Date:** 10-6-04

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc. — Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client: C&S ENGINEERS
Project # / Project Name: QUARTERLY WABASH WELLS
Client Contact: RORY WOODMANSEE
Phone #:
Location (city/state) Address: SYRACUSE, NY

Sample ID	Date	Time	Matrix	GRAB OR COMP	ULI Internal Use Only U04092816	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
MW-8R	9-14-04	10:30A	H2O	GRAB	-001	5	X	X	X	X							MS/MSD
B281	9-14-04	2:25P	H2O	GRAB	-002	3	X	X	X	X							
B290	9-14-04	1:50P	H2O	GRAB	-003	3	X	X	X	X							
B291	9-14-04	11:50A	H2O	GRAB	-004	3	X	X	X	X							
B401	9-14-04	11:10A	H2O	GRAB	-005	3	X	X	X	X							
B402	9-14-04	12:50P	H2O	GRAB	~~-006~~	∅	X	X	X	X							WELL DESTROYED
B403	9-14-04	1:20P	H2O	GRAB	006 ~~-007~~	3	X	X	X	X							
B404	9-14-04	12:40P	H2O	GRAB	-007 ~~-008~~	3	X	X	X	X							
B-290 DUPE	9-14-04	1:50P	H2O	GRAB	-008 ~~-009~~	3	X	X	X								
EQUIPMENT BLANK	9-14-04	2:35P	H2O	GRAB	-009 ~~-010~~	3	X	X	X								
FILTER BLANK	9-14-04	2:40P	H2O	GRAB	-010 ~~-011~~	1		X									

	Parameter and Method	Sample bottle: Type	Size	Preservative
1	T-PB*	PLASTIC	500 ML	HNO3
2	D-PB*	PLASTIC	500 ML	HNO3
3	PCB (EPA 8082)	GLASS	1000 ML	NONE
4	FIELD PH, COND	N/A	N/A	N/A
5				
6				
7				
8				
9				
10				

Sampled by (Print): Paul Baltzersen
Company: ULI

Relinquished by: (sign)	Date	Time	Received by: (sign)
Relinquished by: (sign)	Date	Time	Received by: (sign)
Relinquished by: (sign) Paul Baltz	Date 9/14/04	Time 2:50 P	Rec'd for Lab by: K Crump

Name of Courier:

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Thomas Barba, Snr Proj Scientist
C & S Engineers, P.C.
1099 Airport Blvd.
N. Syracuse, NY 13212

Saturday, January 08, 2005

RE: Quarterly Wabash Wells

Order No.: U0412190

Dear Mr. Thomas Barba, Snr Proj Scientist:

Upstate Laboratories, Inc. received 10 sample(s) on 12/8/2004 for the analyses presented in the following report.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
President/CEO

Upstate Laboratories, Inc.

Date: *08-Jan-05*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0412190

Lab ID: U0412190-001 **Collection Date:** 12/8/2004 10:45:00 AM
Client Sample ID: MW-8R **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	996	1.0		umhos/cm		12/8/2004 10:45:00 AM
pH	7.36	6.5-8.5		SU		12/8/2004 10:45:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	0.98	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001		mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.009	0.001		mg/L	1	12/13/2004 2:00:00 PM

Lab ID: U0412190-002 **Collection Date:** 12/8/2004 1:45:00 PM
Client Sample ID: B281 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	1969	1.0		umhos/cm		12/8/2004 1:45:00 PM
pH	7.39	6.5-8.5		SU		12/8/2004 1:45:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.004	0.001	27	mg/L	1	12/13/2004 2:00:00 PM

Approved By: PF **Date:** 1-5-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *08-Jan-05*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0412190

Lab ID: U0412190-003 **Collection Date:** 12/8/2004 2:20:00 PM
Client Sample ID: B290 **Matrix:** WATER ✓

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	1822	1.0		umhos/cm		12/8/2004 2:20:00 PM
pH	7.41	6.5-8.5		SU		12/8/2004 2:20:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.003	0.001	27,15	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM

Lab ID: U0412190-004 **Collection Date:** 12/8/2004 11:25:00 AM
Client Sample ID: B291 **Matrix:** WATER ✓

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Conductivity	958	1.0		umhos/cm		12/8/2004 11:25:00 AM
pH	7.10	6.5-8.5		SU		12/8/2004 11:25:00 AM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		SW8082		(SW3510B)		Analyst: BW
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		E239.2		(SW3020A)		Analyst: AB
Lead*	0.001	0.001		mg/L	1	12/13/2004 2:00:00 PM

Approved By: PE **Date:** 1-5-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *08-Jan-05*

CLIENT: C & S Engineers, P.C. **Lab Order:** U0412190
Project: Quarterly Wabash Wells

Lab ID: U0412190-005 **Collection Date:** 12/8/2004 12:15:00 PM
Client Sample ID: B401 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	937	1.0		umhos/cm		12/8/2004 12:15:00 PM
pH	7.21	6.5-8.5		SU		12/8/2004 12:15:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	0.002	0.001		mg/L	1	12/13/2004 2:00:00 PM

Lab ID: U0412190-006 **Collection Date:** 12/8/2004 1:20:00 PM
Client Sample ID: B403 **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	613	1.0		umhos/cm		12/8/2004 1:20:00 PM
pH	7.52	6.5-8.5		SU		12/8/2004 1:20:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	12/13/2004 2:00:00 PM

Approved By: PF **Date:** 1-5-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *08-Jan-05*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0412190

Lab ID: U0412190-007 **Collection Date:** 12/8/2004 12:45:00 PM
Client Sample ID: B404 **Matrix:** WATER ✓

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity	348	1.0		umhos/cm		12/8/2004 12:45:00 PM
pH	7.66	6.5-8.5		SU		12/8/2004 12:45:00 PM
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	12/13/2004 2:00:00 PM

Lab ID: U0412190-008 **Collection Date:** 12/8/2004 1:20:00 PM
Client Sample ID: B-403 Dupe **Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001		mg/L	1	12/13/2004 2:00:00 PM

Approved By: PF **Date:** 1-5-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *08-Jan-05*

CLIENT: C & S Engineers, P.C.
Project: Quarterly Wabash Wells
Lab Order: U0412190

Lab ID: U0412190-009
Collection Date: 12/8/2004 2:25:00 PM
Client Sample ID: Equipment Blank
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS IN WASTEWAT		**SW8082**		**(SW3510B)**		Analyst: **BW**
Aroclor 1016	ND	0.050		µg/L	1	1/3/2005
Aroclor 1221	ND	0.050		µg/L	1	1/3/2005
Aroclor 1232	ND	0.050		µg/L	1	1/3/2005
Aroclor 1242	ND	0.050		µg/L	1	1/3/2005
Aroclor 1248	ND	0.050		µg/L	1	1/3/2005
Aroclor 1254	ND	0.050		µg/L	1	1/3/2005
Aroclor 1260	ND	0.050		µg/L	1	1/3/2005
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM
TOTAL LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM

Lab ID: U0412190-010
Collection Date: 12/8/2004 2:30:00 PM
Client Sample ID: Filter Blank
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Conductivity		1.0		umhos/cm		12/8/2004 2:30:00 PM
pH		6.5-8.5		SU		12/8/2004 2:30:00 PM
DISSOLVED LEAD BY GFAA		**E239.2**		**(SW3020A)**		Analyst: **AB**
Lead*	ND	0.001	28	mg/L	1	12/13/2004 2:00:00 PM

Approved By: PE **Date:** 1-5-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 REFERENCE SAMPLE/CCV RECOVERY WAS OUTSIDE OF CONTROL LIMITS
3 METHOD BLANK RESULT WAS ABOVE THE CONTROL LIMITS
4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
9 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
10 RESULTS ARE REPORTED ON AN AS REC.D BASIS
11 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE
14 SAMPLED BY ULI
15 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE WITHIN EXPERIMENTAL ERROR
16 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
19 CALCULATION BASED ON DRY WEIGHT
20 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION LIMITS
21 UG/KG AS REC.D / UG/KG DRY WT
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 DUPLICATE SAMPLE OUTSIDE QC CRITERIA
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
34 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
(B) DETECTED IN BLANK
(D) ALL COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR
(E) COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT FOR THAT SPECIFIC ANALYSIS
(J) DETECTED BELOW THE CRQL
(a) SAMPLE(S) RECEIVED AT THE IMPROPER TEMPERATURE
(b) HEADSPACE IN VOA VIAL(S)
(c) HEADSPACE IN ALKALINITY BOTTLE(S)
(d) SAMPLE CONTAINER(S) RECEIVED BROKEN

Upstate Laboratories, Inc. — Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client: C&S ENGINEERS
Client Contact: TOM BARBA ~~RORY WOODMANGEE~~
Phone #:
Project # / Project Name: QUARTERLY WABASH WELLS
Location (city/state) Address: SYRACUSE, NY

Sample ID	Date	Time	Matrix	GRAB OR COMP	ULI Internal Use Only 110-112190	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
MW-8R	12-8-04	10:45A	H2O	GRAB	-001	3	X	X	X	X							MS/MSD
B281	12-8-04	1:45P	H2O	GRAB	-002	3	X	X	X	X							
B290	12-8-04	2:20P	H2O	GRAB	-003	3	X	X	X	X							
B291	12-8-04	11:25A	H2O	GRAB	-004	3	X	X	X	X							
B401	12-8-04	12:15P	H2O	GRAB	-005	3	X	X	X	X							
B402	12-8-04	12:50P	H2O	GRAB			X	X	X	X							WELL DESTROYED
B403	12-8-04	1:20P	H2O	GRAB	-006	3	X	X	X	X							
B404	12-8-04	12:45P	H2O	GRAB	-007	3	X	X	X	X							
B-403 DUPE	12-8-04	1:20P	H2O	GRAB	-008	3	X	X	X								
EQUIPMENT BLANK	12-8-04	2:25	H2O	GRAB	-009	3	X	X	X								
FILTER BLANK	12-8-04	2:30	H2O	GRAB	-010	1		X									

	Parameter and Method	Sample bottle: Type	Size	Preservative
1	T-PB*	PLASTIC	500 ML	HNO3
2	D-PB*	PLASTIC	500 ML	HNO3
3	PCB (EPA 8082)	GLASS	1000 ML	NONE
4	FIELD PH, COND	N/A	N/A	N/A
5				
6				
7				
8				
9				
10				

Sampled by (Print): PAUL BALTZERSEN
Company: UPSTATE LABORATORIES INC
Name of Courier

Relinquished by: (sign)	Date	Time	Received by: (sign)
Relinquished by: (sign)	Date	Time	Received by: (sign)
Relinquished by: (sign) Paul Balt	Date 12/8/04	Time 2:45 P	Rec'd for Lab by: KM

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)