

**ABBREVIATED
2012 LONG-TERM MONITORING REPORT
FOR
AIR FORCE PLANT 59
JOHNSON CITY, NEW YORK**

**Contract Number FA8903-10-D-8596
Task Order: 0061**

**Project Number:
ACHQ20125001
CDRL A005**



**Prepared for
Air Force Center for Engineering and the Environment**

**Prepared by
HydroGeoLogic, Inc.**

October 2012

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October 2012

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LIST OF ACRONYMS AND ABBREVIATIONS

AFCEE	Air Force Center for Engineering and the Environment
AFP 59	Air Force Plant 59
Alpha	Alpha Analytical Laboratory
<i>cis</i> -1,2-DCE	<i>cis</i> -1,2-dichloroethene
COPC	chemicals of potential concern
1,1-DCA	1,1-dichloroethane
FSP	Field Sampling Plan
HGL	HydroGeoLogic, Inc.
LTM	long-term monitoring
$\mu\text{g/L}$	micrograms per liter
MCL	maximum contaminant level
ND	non-detect
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
PCE	tetrachloroethene
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
<i>trans</i> -1,2-DCE	<i>trans</i> -1,2-dichloroethene
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

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2012 LONG-TERM MONITORING REPORT
FOR
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JOHNSON CITY, NEW YORK**

1.0 INTRODUCTION

In 2012, Hydrogeologic, Inc. (HGL) completed the long-term monitoring (LTM) activities at Air Force Plant 59 (AFP 59) in Johnson City, New York (Figure 1). The Air Force Center for Engineering and the Environment (AFCEE) contracted HGL to complete the LTM activities.

The objectives of this abbreviated monitoring report are to summarize:

- The purpose, collection procedures, and results of the LTM activities; and
- The conclusions and recommendations based on the results of the LTM activities.

2.0 LONG-TERM MONITORING ACTIVITIES

2.1 PURPOSE OF THE LONG-TERM MONITORING ACTIVITIES

Based on the conclusions presented in the *Final Remedial Investigation Report* (Earth Tech, 1996) and recommendations made by the New York State Department of Environmental Conservation (NYSDEC), it was determined that volatile organic compounds (VOC) represent the only chemicals of potential concern (COPC) in groundwater at AFP 59. The LTM objectives for this project were to sample and evaluate VOC levels in groundwater that are above current maximum contaminant level (MCL) standards.

Groundwater samples were collected using the procedures found in the *AFP 59 Draft Field Sampling Plan (FSP) Addendum* (HGL, 2012a) to AECOM's 2009 Final FSP (AECOM, 2009). Samples were collected and analyzed at Alpha Analytical Laboratory (ALPHA) in Westborough, MA for VOCs (U.S. Environmental Protection Agency [USEPA] Method 8260B) and 1,4-dioxane (USEPA Method 8260SIM). The LTM included sampling the following monitoring wells: SW1, DW1, SW3, DW3, SW4, SW7, JC3, BM-121, URS-2D, URS-2D, URS-3D, and URS-5S. A minor deviation occurred from the original FSP. Well URS-9S could not be located; therefore, after discussion with AFCEE, it was decided to sample BM-121 in its place. Monitoring wells SW1 and DW1 represent upgradient (background) wells, and monitoring wells SW3 and DW3 represent downgradient wells. Monitoring wells JC3 (municipal well), BM-121, URS-2D, URS-2D, URS-3D, and URS-5S are off-site wells, located west and south of the site.

2.2 PROCEDURES USED FOR THE LONG-TERM MONITORING ACTIVITIES

Sampling activities followed protocols presented in the *Final Work Plan Base Long-Term Monitoring at AFP 59* (HGL, 2012c) and the *Final Field Sampling Plan Addendum* (HGL, 2012b). HGL collected groundwater samples from six on-site AFP 59 monitoring wells (SW1, DW1, SW3, DW3, SW4, and SW7); five off-site monitoring wells (BM-121, URS-2D, URS-2D, URS-3D, and URS-5S), and one municipal well (JC3) in July and August 2012. All of the sampled groundwater monitoring wells were analyzed for VOCs by USEPA Method SW8260B and 1,4-dioxane using USEPA Method SW8260SIM.

All the wells were sampled using micropurge methodology, which is a low flow-rate monitoring well purging and sampling method that induces laminar (non-turbulent) flow in the immediate vicinity of the sampling pump intake, thus drawing groundwater directly from the sampled aquifer horizontally through the monitoring well screen and into the sampling device. Purging of the monitoring wells was performed to evacuate water that had been stagnant in the monitoring wells, therefore obtaining a sample that is representative of the aquifer. The temperature, pH, specific conductivity and turbidity were also measured and recorded on the monitoring well sampling forms during purging. The field forms and calibration forms are appended as Attachment 1.

2.3 ANALYTICAL RESULTS FROM THE LONG-TERM MONITORING ACTIVITIES

The following paragraphs discuss the VOCs that were detected in the groundwater samples, including those samples collected from both on-site and off-site monitoring wells. The analytical results for groundwater samples collected from monitoring wells installed in the shallow and deep zones of the aquifer are discussed below. The VOCs detected in groundwater samples are illustrated on Figure 2. The analytical results for all groundwater samples collected during the July/August 2012 sampling event are summarized in Table 1.

2.3.1 Shallow Zone of the Aquifer

VOCs were detected in the groundwater samples collected from on-site monitoring wells SW1, SW3, SW4, and SW7, and off-site monitoring wells URS-2S, URS-9S and BM-121 (Refer to Figure 2). Chlorinated hydrocarbons were the only detected VOCs in the samples collected from the shallow zone of the aquifer. VOCs were not detected in the groundwater sample collected from on-site monitoring well SW1 or off-site BM-121, with the exception of a 1,4-dioxane detection of 254 nanograms per liter (ng/L).

The following maximum concentrations were detected in the groundwater samples collected from on-site monitoring well SW3 during the July/August 2012 event: trichloroethene (TCE) at 0.51 micrograms per liter ($\mu\text{g/L}$) and *cis*-1,2-dichloroethene (*cis*-1,2-DCE) at 0.28 $\mu\text{g/L}$. The following maximum concentrations were detected in the groundwater samples collected from on-site monitoring well SW4 during the July/August 2012 event: 1,1,1-trichloroethane (1,1,1-TCA) at 0.66 $\mu\text{g/L}$; 1,1-dichloroethane (1,1-DCA) at 0.64 $\mu\text{g/L}$; 1,1-dichloroethene (1,1-DCE) was non-detect; *cis*-1,2-DCE at 2.3 $\mu\text{g/L}$; tetrachloroethene (PCE) at 0.27 $\mu\text{g/L}$;

trans-1,2-DCE was non-detect; and TCE at 11 µg/L. The following maximum concentrations were detected in the groundwater sample collected from on-site monitoring well SW7 during July/August 2012 event: 1,1,1-TCA at 2.0 µg/L; 1,1-DCA at 6.5 µg/L; PCE at 0.82 µg/L; *cis*-1,2-DCE at 44 µg/L; *trans*-1,2-DCE at 0.21 J µg/L; vinyl chloride at 1.2 M µg/L; and TCE at 9.9 µg/L. The following maximum concentrations were detected in the groundwater sample collected from off-site monitoring well URS-2S during the July/August 2012 event: 1,1-DCA at 1.6 µg/L; 1,1,1-TCA at 3.3 µg/L; TCE at 4.4 µg/L; and *cis*-1,2-DCE at 1.9 µg/L. The following maximum concentrations were detected in the groundwater sample collected from off-site monitoring well URS-5S during the July/August 2012 event: 1,1,1-TCA at 0.52 µg/L; and TCE at 0.82 µg/L.

Exceedances occurred above the New York State Groundwater Quality Standard of 5 µg/L for 1,1-DCA, *cis*-1,2-DCE, and TCE at well SW7. An exceedance also occurred at well SW4 for TCE. These results are highlighted on Figure 2.

During the July/August 2012 sampling effort, 1,4-dioxane was sampled in the four on-site and two off-site shallow monitoring wells. 1,4-dioxane was detected in monitoring wells SW4, BMI-121, URS-2S, and URS-5S at concentrations of 1,030 ng/L; 254 ng/L; 12,100 µg/L; and 9,560 µg/L, respectively. 1,4-dioxane was not detected in monitoring wells SW1 or SW3.

2.3.2 Deep Zone of the Aquifer

VOCs were detected in the groundwater samples collected from on-site monitoring wells DW1 and DW3 and the off-site monitoring well URS-2D and URS-3D (Refer to Figure 2). Chlorinated hydrocarbons were the only VOCs detected in the samples collected from the deep zone of the aquifer. VOCs were not detected in the groundwater sample collected from monitoring well DW1. The only VOC detected in monitoring well DW3 was *cis*-1,2-DCE at 56 µg/L and 1,1-DCA at 0.32 J µg/L. The following maximum concentrations were detected in the groundwater sample collected from the off-site monitoring well URS-2D: 1,1-DCA at 0.27 J µg/L; *cis*-1,2-DCE at 71µg/L; and vinyl chloride at 0.22 J µg/L. Additionally, the maximum concentrations were detected in the groundwater sample collected from the off-site monitoring well URS-3D: 1,1-DCA at 0.24 J µg/L; 1,1,1-TCA at 0.87 µg/L ; TCE at 4.4 µg/L and *cis*-1,2-DCE at 1.9 µg/L. *Cis*-1,2-DCE exceeded the New York State Groundwater Quality Standard of 5 µg/L in on-site well DW3 and off-site well URS-2D. Also, 1,4-dioxane was sampled in both the on-site and off-site deep monitoring wells. 1,4-dioxane was only detected in monitoring wells DW3 at 11,200 ng/L, URS-2D at 28,800 ng/L, and URS-3D at 9,560 ng/L.

2.4 TREND ANALYSIS

Table 2 presents concentrations of the most commonly detected chlorinated hydrocarbons in groundwater at AFP 59 over time. Only monitoring wells that were sampled as part of the groundwater monitoring program are included in the table.

In the groundwater samples collected from the shallow monitoring wells during the August 2012 sampling event, concentrations of the chlorinated hydrocarbons in monitoring well SW3 remained relatively constant (TCE) or decreased to non-detect (ND) concentrations (TCA and 1,1-DCA) when compared to the previous sampling event in November 2008. Concentrations of *cis*-1,2-DCE increased from the November 2008 sampling event, however the concentration detected in August 2012 was well below the NYS Groundwater Effluent Limitations, Class GA of 5 µg/L.

The concentrations of the chlorinated hydrocarbons in monitoring well SW4 remained relatively constant, with only moderate variation in TCE concentrations when compared to the November 2008 sampling event. TCE concentrations decreased from 12.7 µg/L in November 2008 to 11 µg/L in August 2012. The concentrations of 1,1-DCE (1 µg/L to ND); *cis*-1,2-DCE (3.38 µg/L to 2.0 µg/L); and 1,1-DCA (0.825 J µg/L to 0.64 J µg/L) each decreased during the August 2012 sampling event. The concentration of TCA slightly increased in the August sampling event (0.513 J to 0.66 J µg/L) as compared to the November 2008 sampling event.

Concentrations of TCA in monitoring well SW7 increased slightly from 1.88 µg/L in November 2008 to 2.0 µg/L in August 2012. TCE decreased slightly from 3.1 µg/L in October 2005 to 2.94 µg/L in June 2008, more than doubled to 8.15 µg/L in November 2008, while continually increasing to 9.9 µg/L in August 2012. 1,1-DCA has also continued to increase from 1.4 µg/L to 1.59 µg/L in June 2008, more than tripled to 5.04 µg/L in November 2008, and climbed to 6.5 µg/L in the August 2012 sampling event. Fluctuations have occurred with *cis*-1,2-DCE at well SW7. *Cis*-1,2-DCE decreased from 12 µg/L in October 2005 to 6.34 µg/L in June 2008, then increased to 35.3 M µg/L in November 2008, and continued to increase to 44 µg/L in August 2012. *Trans*-1,2-DCE increased from ND in October 2005 and June 2008 to 0.302 J µg/L in November 2008, and then declined to 0.21 J µg/L in August 2012.

In the groundwater sample collected from deep monitoring well DW3 during the August 2012 sampling event, the concentrations of chlorinated hydrocarbons remained at ND with the exception of *cis*-1,2-DCE and 1,1-DCA. The *cis*-1,2-DCE trend for DW3 has increased from 3 µg/L in October 2005 to 73.1 µg/L in June 2008, and has slowly decreased to 67.3 µg/L in November 2008 to 56 µg/L in August 2012. Additionally, 1,1-DCA detected at concentrations of 0.41 J µg/L during the November 2008 sampling event and continued to decrease to 0.32 J µg/L in August 2012. VOCs were not detected in the groundwater sample collected from deep monitoring well DW1 and shallow monitoring well SW1. These results are consistent with previous sampling events.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Although VOC concentrations in the shallow monitoring wells have generally decreased since October 2005, concentrations of TCE and 1,1-DCA continued to exceed the New York State Groundwater Quality Standard of 5 µg/L in well SW7. Additionally, the concentrations of *cis*-1,2-DCE, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene exceeded the New York State

Groundwater Quality Standard of 5 µg/L during the August sampling event in monitoring well SW4. It should be noted that both the 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene exceedances have not been typical for this well. Last, groundwater concentrations detected in off-site shallow monitoring well URS-2S and URS-5S did not exceed the New York State Groundwater Quality Standard of 5 µg/L for chlorinated compounds.

In the deep monitoring wells, *cis*-1,2-DCE was the only contaminant that had concentrations exceeding the New York State Groundwater Quality Standard of 5 µg/L. Monitoring well DW3, located on the AFP 59 boundary downgradient of the suspected source, and monitoring well URS-2D, located at a downgradient, off-site location, exceeded the New York State Groundwater Quality Standard for *cis*-1,2-DCE in this groundwater sampling events.

Based on the results of the LTM activities, groundwater exceeding the New York State Groundwater Quality Standards is migrating off of AFP 59 property in the deep monitoring wells. Additional groundwater monitoring is recommended to monitor the migration of contaminants off-site.

4.0 REFERENCES

AECOM, 2009a. *Final Field Sampling Plan for the Vapor Intrusion Investigation, Monitoring Well Abandonment, Groundwater Monitoring, and Fire Suppression Reservoir Investigation at Air Force Plant 59, Johnson City, New York.* August.

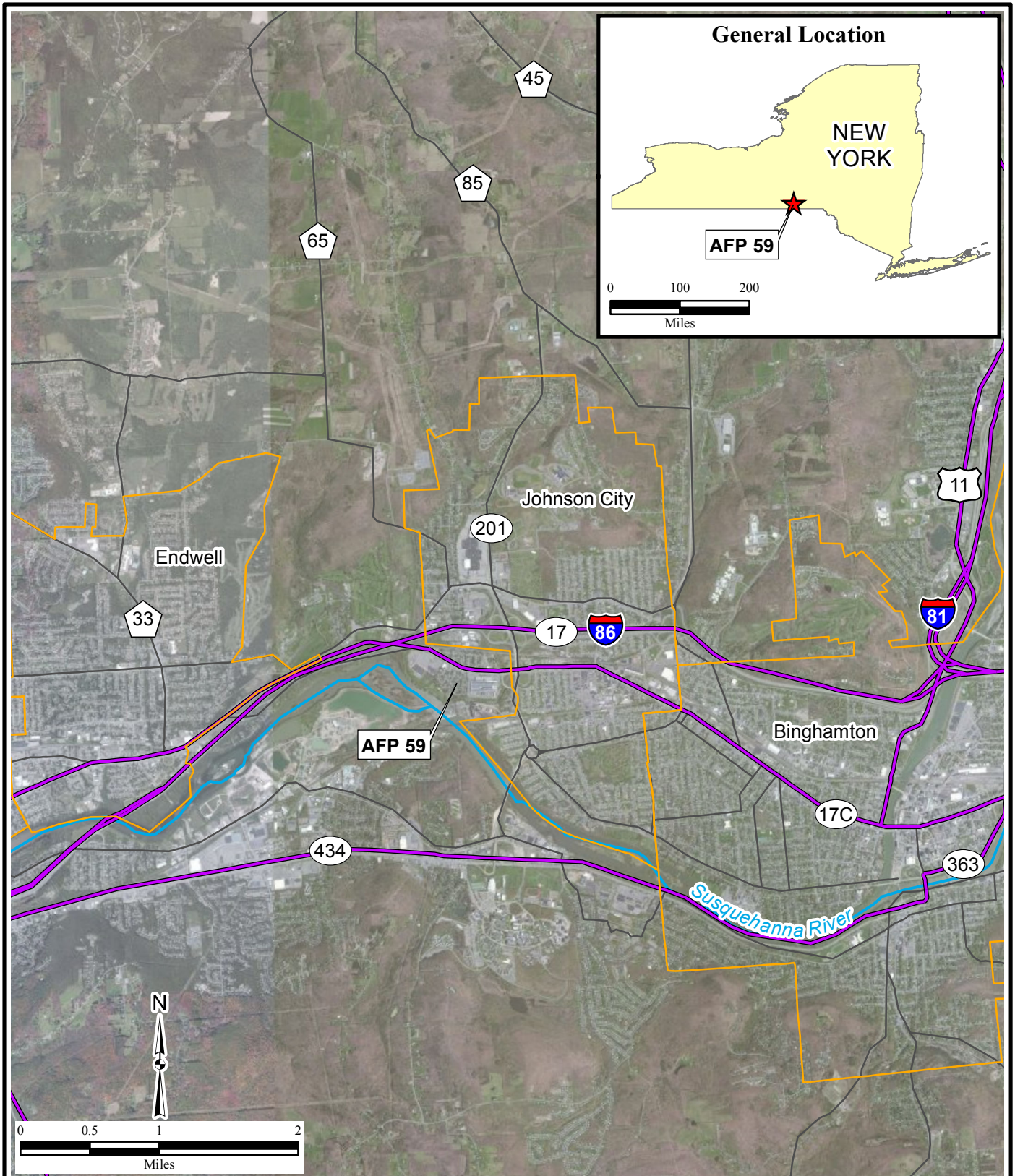
HydroGeoLogic, Inc. (HGL), 2012a. *Draft Field Sampling Plan Addendum, Basewide Long-Term Monitoring at Air Force Plant 59, Johnson City, New York.* May.

HGL, 2012b. *Final Field Sampling Plan Addendum, Basewide Long-Term Monitoring at Air Force Plant 59, Johnson City, New York.* June.

HGL, 2012c. *Final Work Plan, Basewide Long-Term Monitoring at Air Force Plant 59, Johnson City, New York.* June.

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FIGURES



\\GST-srv-01\HGL\GIS\AFP_59\MSI\WTM_2012\
 (01)site_loc.mxd
 10/24/2012 PD
 Source: HGL, ESRI,
 ArcGIS Online Bing Maps Aerial



Legend

- Major Road
- Highway
- City Limit
- Surface Water Course

**Figure 1
 Site Location
 AFP 59**

Figure 2
Groundwater Sampling Results
July and August 2012
On-site and Off-site Monitoring Wells

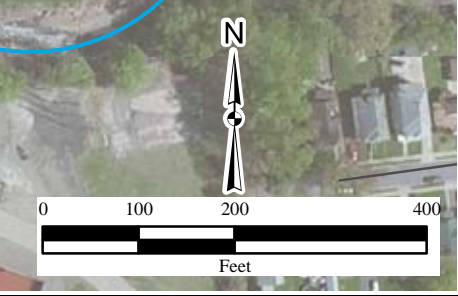
Legend

- AFP 59 Monitoring Well
- Off-site Monitoring Well
- URS-9S Monitoring Well Identification
- Road
- Surface Water Course

Notes:
35.3 M = Shaded values indicate a New York State (NYS) groundwater effluent Class GA exceedance.
 J=The analyte was positively detected, but the quantitation is an estimation.
 M=Matrix Effect. The analyte concentration was estimated due to matrix effect and therefore estimated.
 ND=Analyte not detected above laboratory method detection limits.
 NS=Monitoring well "Not Sampled" during event.
 VOC=volatile organic compound



\\Gst-srv-01\hglgis\AFP_59_MSIW\LTM_2012\02\samp_result.mxd
 10/24/2012 PD
 Source: HGL, ESRI, AECOM, ArcGIS Online Bing Maps Aerial



Susquehanna River

TABLES

Table 1
Summary of Detected VOCs
July and August 2012

Method	Analyte	NYS GW Effluent Limitations Class GA	Units	59DW1WG1	59DW3WG1	59JC3WG1	59SW1WG1	59SW3WG1	59BM121WG1	59SW7WG1	59URS2DWG1	59URS2SWG1
				8/1/2012	8/1/2012	8/2/2012	8/1/2012	8/2/2012	8/2/2012	8/2/2012	7/31/2012	7/31/2012
				L1213897-01	L1213897-02	L1213897-03	L1213897-04	L1213897-05	L1213897-06	L1213897-07	L1213897-08	L1213897-09
VOLATILES by Method 8260B	Methylene chloride	5	µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,1-Dichloroethane	5	µg/L	<0.75	0.32 J	<0.75	<0.75	<0.75	<0.75	6.5	0.27 J	1.6
	Chloroform	7	µg/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
	Tetrachloroethene	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.82	<0.5	<0.5
	1,1,1-Trichloroethane	5	µg/L	<0.5	<0.5	0.56	<0.5	<0.5	<0.5	2.0	<0.5	3.3
	1,1-Dichloropropene	5	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	1,1,2,2-Tetrachloroethane	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	5	µg/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
	Vinyl chloride	2	µg/L	<1	<1	<1	<1	<1	<1	1.2	0.22 J	<1
	1,1-Dichloroethene	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.65	<0.5	<0.5
	trans-1,2-Dichloroethene	5	µg/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	0.21 J	<0.75	<0.75
	Trichloroethene	5	µg/L	<0.5	<0.5	0.92	<0.5	0.51	<0.5	9.9	<0.5	4.4
	o-Xylene	5	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,2-Dichloroethene	5	µg/L	<0.5	56	0.26 J	<0.5	0.28J	<0.5	44	71	1.9
	Acetone	NS	µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Bromochloromethane	5	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	n-Butylbenzene	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	sec-Butylbenzene	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	p-Isopropyltoluene	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	10	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene	5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
1,3,5-Trimethylbenzene	5	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1,2,4-Trimethylbenzene	5	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
SEMI-VOLATILES by Method 8270C-SIM	1,4-Dioxane	NS	ng/l	<153	11,200	898	<153	<152	254	6,000	28,800	12,100
FIELD PARAMETERS	Temperature, Initial	NS	° Celsius	14.12	16.73	15.2	15.44	15.72	14.82	17.61	16.70	15.44
	Temperature, Final		° Celsius	14.41	15.18	15.2	14.58	14.83	14.83	16.68	15.78	15.03
	pH		Std units	6.92	7.01	6.94	6.98	7.04	7.63	6.79	7.03	6.44
	Specific Conductance		µS/cm	1,553	1,321	1,492	1,501	984	658	1,427	1,230	1,185
	ORP		mV	145.3	-34.8	138.4	119.9	60.8	-155.8	93.2	-70.8	5.1
	Dissolved Oxygen		mg/L	2.35	0.44	4.2	0.76	1.4	0.16	0.39	0.58	0.53
	Turbidity		NTU	19	80	0.12	5	0.75	13.5	11.7	100	24

Notes:

NS - Not Applicable

NS - No Standard

<2.5	- Non-Detect
6.5	- NYS GW Effluent; Class GA exceedances

Bolded numbers are detections

Table 1
Summary of Detected VOCs
July and August 2012

Method	Analyte	NYS GW Effluent Limitations Class GA	Units	59URS3DWG1	59URS5SWG1	59EB080112	59EB080112	59TB073112	59DUP01WG1	59DUP02WG1	59AB080112	59SW4WG1	
				7/31/2012	8/2/2012	8/2/2012	8/2/2012	7/31/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/29/2012
				L1213897-10	L1213897-11	Equipment Blank L1213897-12	Equipment Blank (Diluted 5X) L1213897-12	Trip Blank L1213897-13	Duplicate: 59SW7WG1 L1213897-14	Duplicate: 59BM121WG1 L1213897-15	Ambient Blank L1213897-16	L1215563-01	
VOLATILES by Method 8260B	Methylene chloride	5	µg/L	<5	<5	220 E	240	<5	<5	<5	250	<5	
	1,1-Dichloroethane	5	µg/L	0.24 J	<0.75	<0.75	NA	<0.75	6.7	<0.75	<3	0.64 J	
	Chloroform	7	µg/L	<0.75	<0.75	43		<0.75	<0.75	<0.75	46	<0.75	
	Tetrachloroethene	5	µg/L	<0.5	<0.5	<0.5		<0.5	0.81	<0.5	<2	0.27 J	
	1,1,1-Trichloroethane	5	µg/L	0.87	0.52	<0.5		<0.5	2.0	<0.5	<2	0.66	
	1,1-Dichloropropene	5	µg/L	<2.5	<2.5	<2.5		<2.5	<2.5	<2.5	<10	<2.5	
	1,1,2,2-Tetrachloroethane	5	µg/L	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<2	<0.5	
	Toluene	5	µg/L	<0.75	<0.75	0.38 J		<0.75	<0.75	<0.75	<3	<0.75	
	Vinyl chloride	2	µg/L	<1	<1	<1		<1	1.3	<1	<4	<1	
	1,1-Dichloroethene	5	µg/L	<0.5	<0.5	<0.5		<0.5	0.69	<0.5	<2	<0.5	
	trans-1,2-Dichloroethene	5	µg/L	<0.75	<0.75	<0.75		<0.75	<0.75	<0.75	<3	<0.75	
	Trichloroethene	5	µg/L	1.7	0.82	<0.5		<0.5	10	<0.5	<2	11	
	o-Xylene	5	µg/L	<1	<1	<1		<1	<1	<1	<4	0.34J	
	cis-1,2-Dichloroethene	5	µg/L	1.2	<0.5	<0.5		<0.5	45	<0.5	<2	2.3	
	Acetone	NS	µg/L	<5	<5	2.6 J		<5	<5	<5	<20	<5	
	Bromochloromethane	5	µg/L	<2.5	<2.5	0.80 J		<2.5	<2.5	<2.5	<10	<2.5	
	n-Butylbenzene	5	µg/L	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<2	2.3	
	sec-Butylbenzene	5	µg/L	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<2	0.64	
	p-Isopropyltoluene	5	µg/L	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<2	1.2	
	Naphthalene	10	µg/L	<2.5	<2.5	<2.5		<2.5	<2.5	<2.5	<10	2.9	
n-Propylbenzene	5	µg/L	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<2	0.31 J		
1,3,5-Trimethylbenzene	5	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	5.3			
1,2,4-Trimethylbenzene	5	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	5.1			
SEMI-VOLATILES by Method 8270C-SIM	1,4-Dioxane	NS	ng/l	9,560	532	<152	NA	NA	6,120	298	NA	1,030	
FIELD PARAMETERS	Temperature, Initial	NS	° Celsius	15.68	13.43	NA	NA	NA	NA	NA	NA	16.77	
	Temperature, Final		° Celsius	17.15	13.16							16.43	
	pH		Std units	6.94	6.99							7.11	
	Specific Conductance		µS/cm	1,295	1,423							1,481	
	ORP		mV	82.7	117.2							111.3	
	Dissolved Oxygen		mg/L	2.62	1.29							2.98	
	Turbidity		NTU	out of range	24.3							11	

Notes:
NS - Not Applicable
NS - No Standard

<2.5	- Non-Detect
6.5	- NYS GW Effluent; Class GA exceedances

Bolded numbers are detections

Table 2
Trend Analysis of VOCs in Groundwater

Well ID	Date Sampled	Concentrations of Analyte in Groundwater $\mu\text{g/L}$						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
SW1	Sep-86	-	-	-	-	-	-	-
	Jan-92	0.5	-	-	-	-	-	-
	Dec-94	-	-	-	-	-	-	-
	Nov-99	-	-	-	-	-	-	-
	May-00	-	-	-	-	-	-	-
	Nov-00	-	-	-	-	-	-	-
	May-01	-	-	-	-	-	-	-
	Nov-01	0.11 J	-	-	-	-	-	-
	May-02	-	-	-	-	-	-	-
	Nov-02	-	-	-	-	-	-	-
	May-03	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	-
	Jun-04	-	-	-	-	-	-	-
	Nov-04	-	-	-	-	-	-	-
	Oct-05	-	-	-	-	-	-	-
Jun-08	-	-	-	-	-	-	-	
Aug-12	-	-	-	-	-	-	-	
DW1	Jan-92	0.6	-	-	-	-	-	-
	Dec-94	-	-	-	-	-	-	1.8
	Nov-99	-	-	-	-	-	-	-
	May-00	-	-	-	-	-	-	-
	Nov-00	-	-	-	-	-	-	-
	May-01	-	-	-	-	-	-	-
	Nov-01	-	-	-	-	-	-	-
	May-02	-	-	-	-	-	-	-
	Nov-02	-	-	-	-	-	-	-
	May-03	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	-
	Jun-04	-	-	-	-	-	-	-
	Nov-04	-	-	-	-	-	-	-
	Oct-05	-	-	-	-	-	-	-
Jun-08	-	-	-	-	-	-	-	
Aug-12	-	-	-	-	-	-	-	
SW3	Sep-86	-	6	-	-	-	-	-
	Jan-92	12	9	-	-	-	5	-
	Dec-94	0.5	1.8	-	-	-	-	-
	Dec-95	0.86	2.8	-	-	-	-	0.44
	Jul-97	-	1	-	-	-	-	-
	Nov-98	0.22	0.81	-	-	-	-	0.1
	Apr-99	0.51	0.71	-	-	-	-	0.17
	Nov-99	0.29	0.9	-	-	-	-	0.39
	May-00	0.69	1	-	-	-	0.55	1.29
	Nov-00	0.43	0.9	-	-	-	-	0.22
	May-01	0.46	0.8	-	-	-	0.32	1.29
	Nov-01	0.32 J	0.5 J	-	-	-	-	-
	May-02	0.42 J	0.8 J	-	-	-	0.46 J	-
	May-03	0.584 J	0.893 J	-	-	-	0.302 J	1.37 J
Nov-03	0.398 J	0.856 J	-	-	-	-	0.511 J	

Table 2
Trend Analysis of VOCs in Groundwater (continued)

Well ID	Date Sampled	Concentrations of Analyte in Groundwater µg/L						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
SW3 cont.	Jun-04	0.9 J	0.94 J	-	-	-	0.95 J	3.7
	Nov-04	0.52 J	1	0.26 J	-	-	0.38 J	1.5
	Oct-05	0.47 J	0.86 J	-	-	-	-	0.55 J
	Jun-08	0.661 J	1.31	-	-	-	0.403 J	1.45
	Nov-08	0.345 J	0.759 J	-	-	-	-	-
	Aug-12	-	0.51	-	-	-	-	0.28 J
DW3	Jan-92	0.3	-	-	-	-	0.3	-
	Dec-94	-	-	0.28	-	-	0.26	36
	Dec-95	-	-	-	-	-	-	5.2
	Apr-97	-	-	-	-	-	-	41
	Jul-97	-	-	-	-	-	-	49
	Nov-98	-	-	-	-	-	0.34	66
	Apr-99	-	-	0.28	0.11	-	0.35	67
	Nov-99	-	-	-	-	-	-	-
	May-00	-	-	-	-	0.25	0.16	24.98
	Nov-00	-	-	-	-	-	-	16.85
	May-01	-	-	-	-	-	-	13.29
	Nov-01	-	-	-	-	-	-	13.58
	May-02	-	-	-	-	-	0.1 J	21.08
	May-03	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	1.18 J
	Jun-04	-	-	-	-	-	-	1.3
	Nov-04	-	-	-	-	-	-	2.1
	Oct-05	-	-	-	-	-	-	3
Jun-08	-	-	-	-	-	-	73.1	
Nov-08	-	-	-	-	-	0.41 J	67.3	
Aug-12	-	-	-	-	-	0.32 J	56	
SW4	Jan-92	2	97	-	0.3	-	0.6	-
	Dec-94	20	370	-	2.1	-	8.5	19
	Dec-95	34	1200	-	4.9	2.1	6.9	34
	Apr-97	-	-	-	-	-	7.1	71
	Jul-97	23	290	-	-	-	-	15
	Nov-98	8	46	0.42	0.82	-	9	10
	Apr-99	1.9	9.53	-	-	-	0.87	1.85
	Nov-99	2.13	9.5	-	0.18	-	7.7	7.15
	May-00	2.88	8	0.11	0.21	0.49	1.67	4.3
	Nov-00	1.14	15.2	1.49	0.29	-	15.25	11.18
	May-01	3.35	34	-	0.36	0.38	1.3	3.19
	Nov-01	0.88	5.7	0.43 J	0.12 J	-	7.18	5.27
	May-02	2.54	21.63	-	0.34 J	-	0.79 J	2.07
	May-03	3.05 J	9.09 J	-	-	-	1.44 J	3.36 J
	Nov-03	2.03	4.63	-	-	-	0.93	1.93
	Jun-04	2.8	41	-	0.57 J	0.11	1.3	3.3
Nov-04	3.1	56	-	0.88 J	0.19 J	1.4	4.1	

Table 2
Trend Analysis of VOCs in Groundwater (continued)

Well ID	Date Sampled	Concentrations of Analyte in Groundwater µg/L						
		TCA	TCE	VC	1,1-DCE	<i>trans</i> - 1,2 DCE	1,1-DCA	<i>cis</i> - 1,2 DCE
SW4 cont.	Oct-05	2.2	43	-	1		1.7	6.3
	Jun-08	2.98	17.8	-	0.751 J	0.364 J	1.51	4.35
	Nov-08	0.513 J	12.7	-	-	-	0.825 J	3.38
	Aug-12	0.66	11	-	-	-	0.64 J	2.3
SW7	Dec-94	4.6	56	6.2	1	0.3	33	150
	Dec-95	2.2	43	6.8	0.8		20	130
	Jul-97	-	17.8	-	-	-	-	2
	Nov-98	2.5	12.7	3.4	0.65	0.28	12	82
	Apr-99	1.23	15	-	-	-	1.46	5.25
	Nov-99	1.01	7.9	-	0.19	-	3.38	18.8
	May-00	0.67	4	-	-	0.12	0.71	2.43
	Nov-00	0.91	11	0.52	0.15	-	3.48	16.06
	May-01	1.18	3.95	-	-	-	0.47	1.46
	Nov-01	0.8 J	5.7	0.85 J	0.19 J	0.13 J	3.02	25.89
	May-02	0.87 J	1.5	-	-	-	0.47 J	2.79
	May-03	1.5 J	3.8	-	-	-	0.409 J	1.43 J
	Nov-03	0.674 J	1.9	-	-	-	0.509	2.76
	Jun-04	1	1	-	-	-	0.3 J	1.1
	Nov-04	1.5	2.1	0.47 J	0.25 J	-	1.5 J	10 J
	Oct-05	0.73 J	3.1	-	-	-	1.4	12
	Jun-08	2.5	2.94	-	-	-	1.59	6.34
Nov-08	1.88	8.15	1.21 M	-	0.302 J	5.04	35.3 M	
Aug-12	2	9.9	1.2	0.65	0.21 J	6.5	44	

Notes:

ND: Analyte not detected above laboratory method detection limits

NS: Monitoring well "Not Sampled" during event

J: The analyte was positively detected, but the quantitaion is an estimation

M: Matrix Effect. The analyte concentration was estimated due to matrix effect and therefore estimated

Bolded numbers are detections

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ATTACHMENT 1

FIELD FORMS



AFP59 2012 LTM Event
Daily Instrument and Calibration Log

Circle One:
Spring/Fall

Date:

Standard Value	pH4	pH7	pH10	SC 1000	ORP 100 mv	100% Sat.
Standard Lot Number	262011 2010169ms	2110040 2104466ms	2102011 2101326ms	9319 9084ms	3299 2855ms	
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
05B1766AA						
Pre Calibration	3.80	7.09	10.06	1331	227.2	97.7%
Calibrated	4.00	7.00	10.01	1413	240.0	100.5%
End of Day Drift	3.93	7.04	10.01	1416	236.1	103.7%
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
06M1025 All						
Pre Calibration	3.83	7.14	10.00	1331 1313	224.1	107.3%
Calibrated	4.00	7.00	10.00	1413 1413	240.0	100.8%
End of Day Drift	3.97	6.99	9.99	1414	236.4	101.6%
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
06M1025 All						
Pre Calibration	3.96	7.01	10.03	1411	241.6	114.0%
Calibrated	4.00	7.00	10.00	1413	240.0	99.9%
End of Day Drift	4.10	7.08	9.89	1411	235.7	102.4%
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
05B1766AA						
Pre Calibration	3.99	6.99	10.03	1418	241.5	105.8%
Calibrated	4.00	7.00	10.00	1413	240.0	99.9%
End of Day Drift	3.98	6.99	10.07	1413	240.5	99.9%
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
Pre Calibration						
Calibrated						
End of Day Drift						

7/31/12

8.70 mg/L
8.95 mg/L
8.73 mg/L

8/1/12

9.52 mg/L
8.92 mg/L
8.59 mg/L

10.05
888
8.51 mg/L

9.31 mg/L
8.79 mg/L
8.69



AFP59 2012 LTM Event
Daily Instrument and Calibration Log

Circle One:
Spring/Fall

Date:

8/2/12

Standard Value	pH4	pH7	pH10	SC 1000	ORP 100 mv	100% Sat.
Standard Lot Number	2102d1	2110040	210201	9319	3899	
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
05B1766AA	3.99					
Pre Calibration	4.05	6.99	10.02	1411	240.7	99.9
Calibrated	4.00	7.00	10.00	1413	240.0	99.9 100
End of Day Drift	3.99	6.99	10.04	1412	240.2	99.8
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
06M1025AA MS	3.98 MS	MS	MS 10.02	MS	MS	MS
Pre Calibration	4.08	6.98	9.98	1.417	232.3	
Calibrated	4.00	7.00	10.00	1.413	240.0	
End of Day Drift						
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
Pre Calibration						
Calibrated						
End of Day Drift						
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
Pre Calibration						
Calibrated						
End of Day Drift						
Instrument Serial #	pH4	pH7	pH10	SC 1000	ORP	D.O.
Pre Calibration						
Calibrated						
End of Day Drift						

8.91 mg/L
8.92 mg/L
8.91

← NOT USED
8/2/12

GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-3D		Location: AFP59	
Sampler(s): G. RIKEN		Project Name: AFP59 2012 GWS	
Well Depth: 90.85 <small>SOLINST</small>		Project #: AF7061	Date: 07-31-12 Time: 11:20
DTW (ft): 39.35	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well: <i>SP</i>		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (65.33 - 95.33)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <i>CLOUDY; HUMID</i>	
Well Diameter (in): 2" <i>SB</i>			
Placement of Pump Inlet (ft): 85.05 <i>83.0</i>			

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp. (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
12:05	39.29	.1	.50	6.83	15.68	1.279	76.5	2.64	<i>E-2</i> OUT OF RANGE	RD/BRW; TURBID
12:15	39.29	.1	1.5	6.91	15.74	1.278	75.8	2.66	OUT OF RANGE	RD/BRW; TURBID
12:20	39.29	.1	2.0	6.90	15.81	1.273	78.9	2.69	"	
12:25	39.29	.1	2.5	6.91	15.99	1.272	81.2	2.71	"	
12:30	39.29	.1	3.0	6.93	16.17	1.270	82.1	2.67	"	
12:35	39.30	.1	3.5	6.92	16.32	1.269	84.6	2.83	"	
12:40	39.30	.1	4.0	6.94	16.45	1.275	83.9	2.81	"	
12:45	39.29	.1	4.5	6.96	16.85	1.287	82.0	2.73	"	
12:50	39.29	.1	5.0	6.95	17.08	1.292	82.0	2.63	"	
12:55	39.30	.1	5.5	6.95	17.12	1.294	82.5	2.61	"	
13:00	39.30	.1	6.0	6.94	17.15	1.295	82.7	2.62	"	
SAMPLED 13:01										

Observations

Color: Clear Other (describe): <i>VERY TURBID REDDISH BRW / SILTY SETTLES</i>
Odor: <u>None</u> Low Medium High Very Strong H2S Fuel-like
Notes: <i>PUMP OLD BLADDER SN 19095</i>
<i>SOLINST 100' SN 1028</i>
<i>LAMOTTE SN 01906</i>
<i>YSI S/C 11507</i>
Signed/Sampler(s):

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-3D

PROJECT NAME: APP59

DATE/TIME: 07.31.12

CITY/STATE: Johnson City, NY

INSPECTED BY: G. RIKER
M. JACKSON

Water Level Indicator Serial No.: 1028

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): φ ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 39.35 ^{NA} ~~39.35~~ 90.85

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 39.35

PVC WELL STICK-UP (FEET, ABOVE GRADE) 1.9'

PROTECTIVE CASING STICK-UP (FEET, AGS) 2.0'

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) S/S

LOCKED UPON ARRIVAL?

YES NO ^{WAS CUT} Lock on Arrival

LOCK REPLACED?

YES NO

OBSTRUCTIONS?

YES NO [✓]

DAMAGE TO WELL PAD/STICKUP/CASING, ETC?

YES NO (If YES, detail in comments below)

WELL RELABELED?

YES NO

WELL PHOTOGRAPHED?

YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

VERY SILTY DURING SAMPLING/PURGE @ 83' PUMP INTAKE



FIELD SAMPLING REPORT

LOCATION: AFP59
SITE: AFP59

PROJECT NAME: AFP59 2012 GWS
PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID 59URS3DWG1
MATRIX TYPE: WG
SAMPLING METHOD: BP
LOT CONTROL #:
(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)
CHAIN-OF-CUSTODY #:
SAMPLE BEG. DEPTH (FT):
SAMPLE END DEPTH (FT):
GRAB [X] COMPOSITE ()

DATE: 7-31-12 TIME: 1301
ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:
MATRIX SPIKE (MS):
MATRIX SPIKE DUP (SD):
FIELD DUP (FD):
AMBIENT BLANK (AB):
EQUIPMENT BLANK (EB):
TRIP BLANK (TB): 59T80731R

Table with 4 columns: CONTAINER, PRESERVATIVE/ PREPARATION, ANALYTICAL METHOD, ANALYSIS. Rows include 1L Amber, 40 mL VOA, Cool to 4C, Cool to 4C HCl pH<2, 8270C, SW8260B, 1,4 Dioxane, VOCs.

NOTABLE OBSERVATIONS

Table with 3 columns: PID READINGS, SAMPLE CHARACTERISTICS, MISCELLANEOUS. Includes pH 6.94, Temperature 17.15 (C), Dissolved Oxygen 2.62 (mg/L), Specific Conductivity 1.295 (umhos/cm), Iron -, Oxidation/Reduction Potential 82.7 (mv), Turbidity out of range.

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION AMBIENT TEMPERATURE

SHIPMENT VIA: FBDEX HAND DELIVER x COURIER OTHER

SHIPPED TO: ~~Acquest Laboratories of Northeast Marlboro, MA~~ Alpha Analytical

COMMENTS:

SAMPLER: George Riker OBSERVER: MIKE JACKSON

Table with 2 columns: MATRIX TYPE CODES, SAMPLING METHOD CODES. Lists codes for DC, WG, LH, SH, SE, SL, SO, GS, WS, SW, B, BP, PP, CS, C, DT, G, HA, H, HP, SS, SP.

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-2D		Location: AFP59	
Sampler(s): G RIKER		Project Name: AFP59 2012 GWS	
Well Depth: 90.20		Project #: AF7061	Date: 07.31.12 Time: 14.40
DTW (ft): 33.11	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well: soft		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (65 - 90)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Pty. sunny; Humid; Low 80's	
Well Diameter (in): 2			
Placement of Pump Inlet (ft): 83			

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp (C)	Cond (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
15:18	33.18	.150	∅	6.82	16.70	1.205	-19.6	2.58	210	Fine suspended solids
15:25	33.14	.150	1.05	6.76	16.23	1.237	-41.6	0.82	270	
15:30	33.15	.150	1.80	6.83	16.32	1.245	-52.1	0.64	180	
15:35	33.17	.150	2.55	6.92	16.20	1.241	-61.5	0.53	200	
15:40	33.15	.150	3.30	6.96	16.14	1.240	-64.8	0.55	180	
15:45	33.15	.150	4.05	6.94	15.88	1.232	-64.9	0.60	220	
15:50	33.18	.150	4.80	6.97	15.96	1.234	-67.3	0.60	160	
15:55	33.15	.150	5.55	6.99	15.86	1.231	-68.6	0.59	160	
16:00	33.15	.150	6.30	6.97	15.78	1.228	-69.0	0.59	150	
16:05	33.15	.150	7.05	6.99	15.74	1.227	-70.8	0.59	140	
16:10	33.15	.150	7.80	7.01	15.76	1.227	-71.2	0.60	110	
16:15	33.16	.150	8.55	7.03	15.78	1.230	-70.8	0.58	100	
*SAMPLE @ 16:17 (END SING. 17:10) MS/MSD										
DTW: 33.15' @ 17:10										

Observations

Color: Clear Other (describe): Slight turbid; reddish brown suspended fines
Odor: (None) Low Medium High Very Strong H2S Fuel-like
Notes: PUMP: 10298
SOLINST 100: SN 47088
QED MP-10: 2541
YSI: SN 11507
QED WELLSERVO COMP: SN 05098
Signed/Sampler(s): <i>[Signature]</i>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-2D

PROJECT NAME: AFP59

DATE/TIME: 7/31/12 1620

CITY/STATE: Johnson City, NY

INSPECTED BY: George Riker

Water Level Indicator Serial No.: Soloist 47088

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 90.20

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 33.11

PVC WELL STICK-UP (FEET, ABOVE GRADE) -

PROTECTIVE CASING STICK-UP (FEET, AGS) FLUSH MOUNT

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) STAINLESS STEEL

LOCKED UPON ARRIVAL? YES NO

LOCK REPLACED? YES NO

OBSTRUCTIONS? YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)

WELL RELABELED? YES NO

WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:
located in backyard of corner home,
5' from URS-25
FLUSH MOUNT



FIELD SAMPLING REPORT

LOCATION: AFP59	PROJECT NAME: AFP59 2012 GWS.
SITE: AFP59	PROJECT NO: AF7061

SAMPLE INFORMATION	
SAMPLE ID: 59URS2DWG1	DATE: <u>7-31-12</u> TIME: <u>1617</u>
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): <u>59URS2DWG1-MS</u> MATRIX SPIKE DUP (SD): <u>59URS2DWG1-MSD</u> FIELD DUP (FD): <u>-</u> AMBIENT BLANK (AB): <u>-</u> EQUIPMENT BLANK (EB): <u>-</u> TRIP BLANK (TB): <u>59TB073112</u>
SAMPLING METHOD: BP	
LOT CONTROL #: _____ (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)	
CHAIN-OF-CUSTODY #: _____	
SAMPLE BEG. DEPTH (FT): <u>-</u>	
SAMPLE END DEPTH (FT): <u>-</u>	
GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPER	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS		
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0</u>	COLOR: _____	
2nd _____	ODOR: _____	
	OTHER: _____	

pH 7.03 Temperature 15.78 (C) Dissolved Oxygen 0.58 (mg/L) Specific Conductivity 1,230 (umhos/cm)
 Iron - (mg/L) Oxidation/Reduction Potential -70.8 (mv) Turbidity 100 (NTU)

GENERAL INFORMATION			
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMPERATURE <u>80°</u>
SHIPMENT VIA: FEDEX _____	HAND DELIVER <input checked="" type="checkbox"/>	COURIER _____	OTHER _____
SHIPPED TO: Accutest Laboratories of Northeast Marlboro, MA <u>Alpha Analytical Albany, NY</u>			
COMMENTS: _____			
SAMPLER: <u>George Liker</u>		OBSERVER: <u>MIKE Jackson</u>	

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-2S		Location: AFP59	
Sampler(s): <u>MIKE JACKSON</u>		Project Name: AFP59 2012 GWS	
Well Depth: <u>58.60</u>		Project #: AF7061	Date: <u>7/31/12</u> Time: <u>1720</u>
DTW (ft): <u>34.35</u>	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well:		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (35.45 - 60.45)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>Partly Cloudy, Humid, 80°</u>	
Well Diameter (in): <u>2</u>			
Placement of Pump Inlet (ft): <u>53.45</u>			

± 0.1 ± 0.5 **Field Parameters** ± 10 ± 10
 ± 390

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp (C)	Cond (µmhos/cm)	ORP (mv)	DO (mg/L)	Turb (NTU)	Type, Size, and Amount of Sediment Discharged
1740	33.52	0.18	0.5	6.37	15.44	1.186	10.3	0.77	120	
1745	33.52	0.18	1.4	6.45	15.29	1.191	1.9	0.76	80	
1750	33.52	0.18	2.3	6.44	15.17	1.187	5.2	0.77	50	
1755	33.52	0.18	3.2	6.45	15.11	1.184	3.1	0.69	39	
1800	33.52	0.18	4.1	6.43	15.10	1.182	5.6	0.68	30	
1805	33.52	0.18	5.0	6.44	15.08	1.182	7.7	0.59	25	
1810	33.52	0.18	5.9	6.44	15.08	1.185	5.1	0.53	24	
1812	Collect		Groundwater Samples							

Observations

Color: <u>Clear</u> Other (describe):
Odor: <u>None</u> Low Medium High Very Strong H2S Fuel-like <u>HS NT</u>
Notes: <u>#18731</u>
<u>33.27 DTW Post pump install</u> <u>YSI 556 (06M125AH)</u>
<u>Cannote 2020 (SN # 2523-1501)</u> <u>Final DTW = 33.41</u>
<u>well wizard 3020 compressor #2040</u>
<u>SOLONIST WLI model 901 (#17088)</u>
Signed/Sampler(s): <u>[Signature]</u>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-2S

PROJECT NAME: AFP59

DATE/TIME: 7/31/12 1815

CITY/STATE: Johnson City, NY

INSPECTED BY: MDJ

Water Level Indicator Serial No.: Solorst # 47086

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.6 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 58.60

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 34.35

PVC WELL STICK-UP (FEET, ABOVE GRADE) 1

PROTECTIVE CASING STICK-UP (FEET, AGS) 1

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) Stainless STEEL

- LOCKED UPON ARRIVAL? YES NO
- LOCK REPLACED? YES NO
- OBSTRUCTIONS? YES NO
- DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)
- WELL RELABELED? YES NO
- WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:
Backyard of house on corner. Fresh mount
5' from URS-2D

FIELD SAMPLING REPORT

LOCATION: AFP59 PROJECT NAME: AFP59 2012 GWS
 SITE: AFP59 PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID	59URS2SGW1	DATE:	7-31-12	TIME:	1815
MATRIX TYPE:	WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE:			
SAMPLING METHOD:	BP	MATRIX SPIKE (MS):	—		
LOT CONTROL #:	—	MATRIX SPIKE DUP (SD):	—		
(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)		FIELD DUP (FD):	—		
CHAIN-OF-CUSTODY #:	—	AMBIENT BLANK (AB):	—		
SAMPLE BEG. DEPTH (FT):	—	EQUIPMENT BLANK (EB):	—		
SAMPLE END DEPTH (FT):	—	TRIP BLANK (TB):	59TB073112		
GRAB <input checked="" type="checkbox"/> COMPOSITE ()					

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0	COLOR:	
2nd	ODOR:	
	OTHER:	
pH 6.4 Temperature 15.3(C) Dissolved Oxygen 0.53 (mg/L) Specific Conductivity 1185 (umhos/cm) Iron — (mg/L) Oxidation/Reduction Potential 5.1 (mv) Turbidity 24 (NTU)		

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMPERATURE 80°F

SHIPMENT VIA: FEDEX _____ HAND DELIVER COURIER _____ OTHER _____

SHIPPED TO: ~~Accutest Laboratories of Northeast Marlboro, MA~~ *Alpha Analytical Albany, NY*

COMMENTS:

SAMPLER: *MIKE JACKSON* OBSERVER: *George Riker*

MATRIX TYPE CODES

DC=DRILL CUTTINGS SL=SLUDGE
 WG=GROUND WATER SO=SOIL
 LH=HAZARDOUS LIQUID WASTE GS=SOIL GAS
 SH=HAZRDIOUS SOLID WASTE WS=SURFACE WATER
 SE=SEDIMENT SW=SWAB/WIPE

SAMPLING METHOD CODES

B=BAILER G=GRAB
 BP=BLADDER PUMP HA=HAND AUGER
 PP=PERISTALIC PUMP H=HOLLOW STEM AUGER
 CS=COMPOSITE SAMPLE HP=HYDRO PUNCH
 C=CONTINUOUS FLIGHT AUGER SS=SPLIT SPOON
 DT=DRIVEN TUBE SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: DW-1		Location: AFP59	
Sampler(s): G. RIKEN		Project Name: AFP59 2012 GWS	
Well Depth: 59.4		Project #: AF7061	Date: 08.01.12 Time: 08:30
DTW (ft): 18.16	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well: HAND		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (52 - 626421)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): PREDOM. CLOUDY UPPER 70'S MOSTLY CALM	
Well Diameter (in): X 4" PVC			
Placement of Pump Inlet (ft): 54			

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp (C)	Cond (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
08:55	18.16	.2	0	6.29	14.12	1.094	277.7	5.09		Fairy clean!
09:00	18.19	.2	1.0	6.26	14.09	1.321	274.2	3.22	38	
09:05	18.19	.2	2.0	6.40	14.06	1.424	255.4	2.81	37	
09:10	18.19	.2	3.0	6.53	14.02	1.481	241.0	2.62	37	
09:15	18.19	.2	4.0	6.67	14.37	1.508	227.1	2.62	37	
09:20	18.19	.2	5.0	6.77	14.35	1.529	203.9	2.63	30	
09:25	18.19	.2	6.0	6.79	14.31	1.540	189.6	2.43	23	
MP-10 CONTROLLER FAILED!										
RESTART MP-10-2541										
09:43	18.19									
09:45	18.19	.25	6.5	6.91	14.32	1.553	160.6	2.43		
09:50	18.19	.2	7.5	6.90	14.55	1.556	159.7	2.34	22	
09:55	18.19	.2	8.5	6.91	14.40	1.551	156.1	2.36	26	
10:00	18.18	.2	9.5	6.93	14.33	1.549	152.6	2.35	22	
10:05	18.18	.2	10.5	6.91	14.40	1.552	147.9	2.33	20	
10:10	18.18	.2	11.5	6.92	14.41	1.553	145.3	2.35	19	

SAMPLED 10:13 - 10:27

Observations

DTW: 18.18
Color: <u>Clear</u> Other (describe):
Odor: <u>None</u> Low Medium High Very Strong H2S Fuel-like
Notes: PUMP: 5/4 19095
LeMette # 01906
YST # 11507
QUAD WIZARD # 2006 / MP-10-1909
SOLINST 100' # 1028
Signed/Sampler(s): <i>[Signature]</i>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: DW-1

PROJECT NAME: AFP59

DATE/TIME: 8/1/12 1030

CITY/STATE: Johnson City, NY

INSPECTED BY: George Riker

Water Level Indicator Serial No.: SolenST 1028

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 59.4

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 18.16

PVC WELL STICK-UP (FEET, ABOVE GRADE) 3.62

PROTECTIVE CASING STICK-UP (FEET, AGS) 3.83

WELL DIAMETER (INCHES) 4

WELL CONSTRUCTION (PVC, STEEL, ETC.) PVC

LOCKED UPON ARRIVAL? YES NO (lock on expanding cap)

LOCK REPLACED? YES NO

OBSTRUCTIONS? YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)

WELL RELABELED? YES NO

WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS: _____



FIELD SAMPLING REPORT

LOCATION: AFP59
SITE: AFP59

PROJECT NAME: AFP59 2012 GWS
PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID 59DW1WG1
MATRIX TYPE: WG
SAMPLING METHOD: BP
LOT CONTROL #:
(ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)
CHAIN-OF-CUSTODY #:
SAMPLE BEG. DEPTH (FT):
SAMPLE END DEPTH (FT):
GRAB (X) COMPOSITE ()

DATE: 8-1-12 TIME: 1013
ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:
MATRIX SPIKE (MS):
MATRIX SPIKE DUP (SD):
FIELD DUP (FD):
AMBIENT BLANK (AB):
EQUIPMENT BLANK (EB):
TRIP BLANK (TB): 5913073112

Table with 4 columns: CONTAINER, PRESERVATIVE/ PREPARATION, ANALYTICAL METHOD, ANALYSIS. Rows include 1L Amber, 40 mL VOA, and analysis for 1,4 Dioxane and VOCs.

NOTABLE OBSERVATIONS

Table with 3 columns: PID READINGS, SAMPLE CHARACTERISTICS, MISCELLANEOUS. Includes handwritten data for pH (6.92), Temperature (14.41), Dissolved Oxygen (2.35), Specific Conductivity (1.553), Iron, and Turbidity.

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN
WIND DIRECTION
AMBIENT TEMPERATURE 70s
SHIPMENT VIA: FEDEX HAND DELIVER x COURIER OTHER
SHIPPED TO: Accutest Laboratories of Northeast Marlboro, MA Alpha Analytical Albany NY
COMMENTS:
SAMPLER: George Baker OBSERVER: MIKE JACKSON

Table with 2 columns: MATRIX TYPE CODES (DC=DRILL CUTTINGS, WG=GROUND WATER, etc.), SAMPLING METHOD CODES (B=BAILER, BP=BLADDER PUMP, etc.).

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: SW-1		Location: AFP59	
Sampler(s): G. RIKER		Project Name: AFP59 2012 GWS	
Well Depth: 28.35		Project #: AF7061	Date: 08.01.12 Time: 10:30
DTW (ft): 18.13	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well: HAND		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (15.74 - 25.74285)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature):	
Well Diameter (in): 8 2.7 PK		OVERCAST; MOSTLY CALM; UPPER 70's	
Placement of Pump Inlet (ft): 23.5			

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp (C)	Cond (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
10:50	18.14		0	6.96	15.44	1.496	174.0	2.99		CLEAN
10:55	18.18	.225	1.13	6.94	14.57	1.490	169.5	1.18	13	
11:00	18.16	.225	2.25	6.96	14.77	1.498	156.4	0.85	12	
11:05	18.16	.2	3.25	6.98	14.59	1.496	148.8	0.94	11	
11:10	18.16	.2	4.25	6.97	14.59	1.496	144.3	0.80	9.6	
11:15	18.17	.2	5.25	6.98	14.53	1.495	136.5	0.83	7.5	
11:20	18.16	.2	6.25	6.97	14.56	1.498	130.9	0.75	6.7	
11:25	18.17	.2	7.25	6.99	14.54	1.498	126.1	0.80	5.8	
11:30	18.17	.2	8.25	6.98	14.58	1.501	119.9	0.76	5.0	
SAMPLED 11:33-11:46										
DTW: 18.16										

Observations

Color: <u>Clear</u> Other (describe):
Odor: <u>None</u> Low Medium High Very Strong H2S Fuel-like
Notes: Pump #18731 (Pine)
LeMotte # 01906
YSI # 11507
REDWIND #2006 / MP-10-2541
SOLUST 100 # 1028
Signed/Sampler(s): <i>[Signature]</i>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-1

PROJECT NAME: AFP59

DATE/TIME: 8/1/12 1150

CITY/STATE: Johnson City, NY

INSPECTED BY: George Riker

Water Level Indicator Serial No.: 50621ST #1028

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 28.35

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 18.13

PVC WELL STICK-UP (FEET, ABOVE GRADE) 3.45

PROTECTIVE CASING STICK-UP (FEET, AGS) 3.85

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) PVC

LOCKED UPON ARRIVAL? YES NO (expandable cap)

LOCK REPLACED? YES NO

OBSTRUCTIONS? YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)

WELL RELABELED? YES NO

WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS: cut off 40" lock on stickup



FIELD SAMPLING REPORT

LOCATION: AFP59

PROJECT NAME: AFP59 2012 GWS

SITE: AFP59

PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID 59SW1WG1

DATE: 8-1-12 TIME: 1150 ¹²⁵ 1133

MATRIX TYPE: WG

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
BLANKS ASSOCIATED WITH THIS SAMPLE:

SAMPLING METHOD: BP

MATRIX SPIKE (MS): —

LOT CONTROL #: _____

MATRIX SPIKE DUP (SD): —

(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)

FIELD DUP (FD): —

CHAIN-OF-CUSTODY #: _____

AMBIENT BLANK (AB): —

SAMPLE BEG. DEPTH (FT): —

EQUIPMENT BLANK (EB): —

SAMPLE END DEPTH (FT): —

TRIP BLANK (TB): 59TB073112

GRAB COMPOSITE ()

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0</u>	COLOR:	
2nd	ODOR:	
	OTHER:	
pH <u>6.98</u> Temperature <u>14.58</u> (C) Dissolved Oxygen <u>0.76</u> (mg/L) Specific Conductivity <u>1.501</u> (umhos/cm) Iron <u>—</u> (mg/L) Oxidation/Reduction Potential <u>119.9</u> (mv) Turbidity <u>5.0</u> (NTU)		

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION _____ AMBIENT TEMPERATURE Upper 70's

SHIPMENT VIA: FEDEX _____ HAND DELIVER x COURIER _____ OTHER _____

SHIPPED TO: ~~Accutest Laboratories of Northeast Marlboro, MA~~ Alpha Analytical ALBANY, NY

COMMENTS:

SAMPLER: George Aiker

OBSERVER: MIKE JACKSON

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: DW-3		Location: AFP59	
Sampler(s): <u>G. RIKEN</u> <small>LUDWIG VAN BEETHOVEN</small>		Project Name: AFP59 2012 GWS	
Well Depth: <u>85</u>		Project #: AF7061	Date: <u>08.01.12</u> Time: <u>13:30</u>
DTW (ft): <u>17.14</u>	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well: <u>SOFT</u>		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (67.58 - 87.58867)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature):	
Well Diameter (in): 6 <u>4 1/2</u>		OVERCAST; HUMID; PERIODIC DRIZZLE	
Placement of Pump Inlet (ft): <u>79</u>			

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged
13:45	17.16	.2	0	8.11	16.73	1.503	121.0	3.48	210	CASING SIDE IS DIRTY!!
13:50	17.16	.2	1.0	6.63	15.52	1.360	-11.1	0.69	140	
13:55	17.15	.2	2.0	6.64	15.34	1.333	-17.8	0.59	190	
14:00	17.16	.2	3.0	6.73	15.28	1.328	-26.4	0.55	180	
14:05	17.16	.2	4.0	6.81	15.44	1.332	-32.4	0.59	200	
14:10	17.15	.2	5.0	6.88	15.35	1.333	-32.5	0.56	190	
14:15	17.16	.2	6.0	6.91	15.30	1.332	-38.5	0.60	180	
14:20	17.15	.2	7.0	6.94	15.48	1.335	-33.8	0.52	160	
14:25	17.15	.2	8.0	6.96	15.44	1.332	-38.5	0.56	150	
14:30	17.15	.2	9.0	6.96	15.24	1.326	-43.2	0.52	110	
14:35	17.15	.2	10.0	6.98	15.45	1.332	-43.2	0.48	100	
14:40	17.15	.2	11.0	7.01	15.45	1.328	-45.7	0.51	85	
14:45	17.16	.2	12.0	7.02	15.15	1.322	-41.0	0.45	65	
14:50	17.16	.2	13.0	7.01	15.13	1.318	-36.0	0.40	80	
14:55	17.15	.2	14.0	7.01	15.12	1.319	-36.9	0.40	85	
15:00	17.15	.2	15.0	7.01	15.18	1.321	-34.8	0.44	80	

SAMPLED: 15:02 - 15:12

DTW: 17.15'

Observations

Color: Clear Other (describe):
Odor: <u>(None)</u> Low Medium High Very Strong H2S Fuel-like <u>3.1 ppm P2D</u>
Notes: <u>Pump # 10298</u>
<u>SOLINSE 100 - #1028</u>
<u>L-METTE: SN 01906</u>
<u>YST: #11507</u>
<u>QSD WIZARD #2006 / MP-10-2541</u>
Signed/Sampler(s): <u>[Signature]</u>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: DW-3
DATE/TIME: 8-1-12 1515
INSPECTED BY: George Baker

PROJECT NAME: AFP59
CITY/STATE: Johnson City, NY
Water Level Indicator Serial No.: SOLONST #1028

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.4 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 85
WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 17.14
PVC WELL STICK-UP (FEET, ABOVE GRADE) - (FLUSH MOUNT)
PROTECTIVE CASING STICK-UP (FEET, AGS) - (FLUSH MOUNT)
WELL DIAMETER (INCHES) 4
WELL CONSTRUCTION (PVC, STEEL, ETC.) PVC

LOCKED UPON ARRIVAL? YES NO
LOCK REPLACED? YES NO
OBSTRUCTIONS? YES NO
DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)
WELL RELABELED? YES NO
WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:



FIELD SAMPLING REPORT

LOCATION: AFP59	PROJECT NAME: AFP59 2012 GWS
SITE: AFP59	PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID: 59DW3WG1	DATE: <u>8-1-12</u> TIME: <u>1502</u>
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): <u> </u> MATRIX SPIKE DUP (SD): <u> </u> FIELD DUP (FD): <u> </u> AMBIENT BLANK (AB): <u> </u> EQUIPMENT BLANK (EB): <u> </u> TRIP BLANK (TB): <u>59TB073112</u>
SAMPLING METHOD: BP	
LOT CONTROL #: <u> </u> <small>(Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)</small>	
CHAIN-OF-CUSTODY #: <u> </u>	
SAMPLE BEG. DEPTH (FT): <u> </u>	
SAMPLE END DEPTH (FT): <u> </u>	
GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER	#	PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.4</u>	COLOR:	
2nd	ODOR:	
	OTHER:	
pH <u>7.01</u> Temperature <u>15.18</u> (C) Dissolved Oxygen <u>0.44</u> (mg/L) Specific Conductivity <u>1.321</u> (umhos/cm) Iron <u> </u> (mg/L) Oxidation/Reduction Potential <u>-39.8</u> (mv) Turbidity <u>80</u> (NTU)		

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION AMBIENT TEMPERATURE 80S

SHIPMENT VIA: FEDEX HAND DELIVER COURIER OTHER

SHIPPED TO: ~~Accutest Laboratories of Northeast, Marlboro, MA~~ Alpha Analytical Albany, NY

COMMENTS:

SAMPLER: George Baker OBSERVER: MIKE Jackson

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUND WATER	BP=BLADDER PUMP
LH=HAZARDOUS LIQUID WASTE	PP=PERISTALTIC PUMP
SH=HAZARDOUS SOLID WASTE	CS=COMPOSITE SAMPLE
SE=SEDIMENT	C=CONTINUOUS FLIGHT AUGER
SL=SLUDGE	DT=DRIVEN TUBE
SO=SOIL	G=GRAB
GS=SOIL GAS	HA=HAND AUGER
WS=SURFACE WATER	H=HOLLOW STEM AUGER
SW=SWAB/WIPE	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: SW-3		Location: AFP59	
Sampler(s): <u>G. RIKK</u>		Project Name: AFP59 2012 GWS	
Well Depth: <u>20</u> <u>29.63</u>		Project #: AF7061	Date: <u>08-01-12</u> Time: <u>15:30</u>
DTW (ft): <u>20'</u>	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well: <u>HARD</u>		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): <u>17.68 - 28.68295</u> <u>18.68</u>		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>PLY. SUNNY HUMID VEELY LT. BRIZZLE</u>	
Well Diameter (in): <u>2 2"</u>			
Placement of Pump Inlet (ft): <u>24.5</u>			

Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp. (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged	
15:40	20.00	.225	0	7.06	15.72	0.996	106.7	2.55		CLEAR	
15:45	20.00	.225	1.13	6.95	15.81	1.002	98.4	1.80 98.4	1.4		
15:50	20.01	.225	2.25	7.01	15.71	1.004	88.9	1.56	1.5		
15:55	20.01	.225	3.38	7.03	15.18	0.996	79.4	1.52	0.95		
16:00	20.01	.225	4.5	6.99	14.96	0.987	77.8	1.42	0.85		
16:05	20.02	.225	5.63	7.02	14.97	0.987	74.0	1.43	0.85		
16:10	20.02	.225	6.75	7.04	14.87	0.985	66.5	1.47	0.75		
16:15	20.02	.225	7.88	7.04	14.81	0.984	63.9	1.40	0.80		
16:20	20.02	.225	9.0	7.04	14.83	0.984	60.8	1.40	0.75		
SAMPLED		16:22-16:31									
DTW - 20.02'											

Observations

Color: <u>Clear</u> Other (describe):
Odor: <u>None</u> Low Medium High Very Strong H2S Fuel-like <u>0.4 PPM PIP</u>
Notes: <u>PUMP # 18731</u>
<u>SOLINST 100' # 1028</u>
<u>LA MOTTE S/N 01906</u>
<u>YSI # 11507</u>
<u>GED WIZARD CONTROLLER # 2006 / MP-10-2511</u>
Signed/Sampler(s): <u>[Signature]</u>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-3

PROJECT NAME: AFP59

DATE/TIME: 8/1/12 1640

CITY/STATE: Johnson City, NY

INSPECTED BY: George Riker

Water Level Indicator Serial No.: 800287 #1028

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 3.1 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 29.63

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 20.00

PVC WELL STICK-UP (FEET, ABOVE GRADE) 2.10

PROTECTIVE CASING STICK-UP (FEET, AGS) 2.34

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) PVC

LOCKED UPON ARRIVAL? YES NO (expandable cap)

LOCK REPLACED? YES NO

OBSTRUCTIONS? YES NO

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)

WELL RELABELED? YES NO

WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:
no lock on protective casing cap



FIELD SAMPLING REPORT

LOCATION: AFP59	PROJECT NAME: AFP59 2012 GWS
SITE: AFP59	PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID: 59SW3WG1	DATE: <u>8-1-12</u> TIME: <u>1622</u>
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): <u> </u> MATRIX SPIKE DUP (SD): <u> </u> FIELD DUP (FD): <u> </u> AMBIENT BLANK (AB): <u> </u> EQUIPMENT BLANK (EB): <u> </u> TRIP BLANK (TB): <u>59TB073112</u>
SAMPLING METHOD: BP	
LOT CONTROL #: _____ (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)	
CHAIN-OF-CUSTODY #: _____	
SAMPLE BEG. DEPTH (FT): <u>—</u>	
SAMPLE END DEPTH (FT): <u>—</u>	
GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>3.1</u>	COLOR: _____	
2nd _____	ODOR: _____	
	OTHER: _____	
pH <u>7.04</u> Temperature <u>14.83</u> (C) Dissolved Oxygen <u>4.70</u> (mg/L) Specific Conductivity <u>0.984</u> (umhos/cm) Iron <u>—</u> (mg/L) Oxidation/Reduction Potential <u>60.8</u> (mv) Turbidity <u>0.75</u> (NTU)		

GENERAL INFORMATION

WEATHER: Partly SUN/CLEAR _____ OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMPERATURE 80.5
 SHIPMENT VIA: FEDEX _____ HAND DELIVER x COURIER _____ OTHER _____
 SHIPPED TO: ~~Accutest Laboratories of Northeast Marlboro, MA~~ Alpha Analytical Albany, NY
 COMMENTS:
 SAMPLER: George Aiken OBSERVER: MIKE JACKSON

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: URS-SS		Location: AFP59	
Sampler(s): MIKE JACKSON		Project Name: AFP59 2012 GWS	
Well Depth: 68		Project #: AF7061	Date: 8-1-12 Time: 1100
DTW (ft): 24.15	DTP Top (ft):	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well:		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft): (-)		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Overcast, Humid, 78°	
Well Diameter (in): 2" (SS)			
Placement of Pump Inlet (ft): 58.6" 59'			

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	Field Parameters							Type, Size, and Amount of Sediment Discharged
				pH	Temp. (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)		
				+/-0.1	+/-0.5	+/-2%	+/-10	+/-10			
2.00	1113	24.15	0.25	0.5	6.68	13.43	1427	188.4	1.50	18	
	1118	24.15	0.25	0.750	6.84	13.36	1428	171.6	1.47	83	
3.25	1123	24.15	0.25	0.750	6.97	13.34	1427	157.6	1.23	73.3	
4.50	1128	24.15	0.25	0.875	6.96	13.27	1425	149.5	1.32	41.1	
5.75	1133	24.15	0.25	1.00	6.98	13.24	1423	142.5	1.37	38.8	
7.00	1138	24.15	0.25	1.25	6.99	13.18	1424	136.9	1.20	40.2	
8.25	1143	24.15	0.25	1.50	6.99	13.16	1425	130.3	1.14	38.1	
9.50	1148	24.15	0.25	8.25	6.99	13.14	1423	125.5	1.11	28.1	
	1153	24.15	0.25	9.00	6.99	13.14	1423	122.1	1.08	26.8	
	1158	24.15	0.25	10.25	6.99	13.16	1423	117.2	1.29	24.3	
	1200	Collect Samples (59 URS 55W 6.1)									

Observations

Color: <input checked="" type="radio"/> Clear <input type="radio"/> Other (describe):
Odor: <input checked="" type="radio"/> None <input type="radio"/> Low <input type="radio"/> Medium <input type="radio"/> High <input type="radio"/> Very Strong <input type="radio"/> H2S <input type="radio"/> Fuel-like
Notes: Pump # 10298
Pump bottom (bob) cannot get below 60.6' FOC (Intake above bottom)
Intake pipe 58.6" 59' YSI 556 (#05B17 AA)
DTW after pump interval = 24.15 MP10 (#04322)
Lanotte 2020 (1860-0413) Solinst model 101 (#47088)
Signed/Sampler(s): <i>[Signature]</i>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: URS-5S

PROJECT NAME: AFP59

DATE/TIME: 8-1-12

CITY/STATE: Johnson City, NY

INSPECTED BY: MIKE JACKSON

Water Level Indicator Serial No.: SO(2)ST 101 (#47088)

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 68'

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 24.15

PVC-WELL STICK-UP (FEET, ABOVE GRADE) -

PROTECTIVE CASING STICK-UP (FEET, AGS) -

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) Stainless STEEL

LOCKED UPON ARRIVAL? YES NO

LOCK REPLACED? YES NO

OBSTRUCTIONS? YES (slight obstruction to pump at 60.6' TOC)

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES (If YES, detail in comments below)

WELL RELABELED? YES NO

WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:

PUSH MOUNT 1.0
TOC 1.05 Below Ground surface.
TOC 1.10 Below 2nd floor manhole cover.
Original manhole cover 0.7 feet below grade.
Residential owner probably indicated manhole
owner possibly did not contact area properly.



FIELD SAMPLING REPORT

LOCATION: AFP59 PROJECT NAME: AFP59 2012 GWS
SITE: AFP59 PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID 59URSSSWG1	DATE: 8-1-12 TIME: 1200
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): _____ MATRIX SPIKE DUP (SD): _____ FIELD DUP (FD): _____ AMBIENT BLANK (AB): _____ EQUIPMENT BLANK (EB): _____ TRIP BLANK (TB): 59TB073112
SAMPLING METHOD: BP	
LOT CONTROL #: _____ (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)	
CHAIN-OF-CUSTODY #: _____	
SAMPLE BEG. DEPTH (FT): _____ SAMPLE END DEPTH (FT): _____ GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs 8260B
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0	COLOR:	
2nd	ODOR:	
	OTHER:	
pH 6.99	Temperature 13.16 (C)	Dissolved Oxygen 1.29 (mg/L)
Iron _____	Oxidation/Reduction Potential 117.2 (mv)	Specific Conductivity 1423 (umhos/cm)
	Turbidity 24.3 (NTU)	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION _____ AMBIENT TEMPERATURE 78°F
SHIPMENT VIA: FEDEX _____ HAND DELIVER COURIER _____ OTHER _____
SHIPPED TO: ~~Accutest Laboratories of Northeast Marlboro, MA~~ Alpha Analytical Albany NY
COMMENTS:
SAMPLER: MIKE JACKSON OBSERVER: _____

MATRIX TYPE CODES

DC=DRILL CUTTINGS SL=SLUDGE
WG=GROUND WATER SO=SOIL
LH=HAZARDOUS LIQUID WASTE GS=SOIL GAS
SH=HAZARDOUS SOLID WASTE WS=SURFACE WATER
SE=SEDIMENT SW=SWAB/WIPE

SAMPLING METHOD CODES

B=BAILER G=GRAB
BP=BLADDER PUMP HA=HAND AUGER
PP=PERISTALTIC PUMP H=HOLLOW STEM AUGER
CS=COMPOSITE SAMPLE HP=HYDRO PUNCH
C=CONTINUOUS FLIGHT AUGER SS=SPLIT SPOON
DT=DRIVEN TUBE SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well No.: SW-7		Location: AFP59	
Sampler(s): <u>MIKE JACKSON</u>		Project Name: AFP59 2012 GWS	
Well Depth: <u>28.62</u>		Project #: AF7061	Date: <u>8-1-12</u> Time: <u>1530</u>
DTW (ft): <u>20.28</u>	DTP Top (ft): <u>15.85</u>	Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Other	
MP Ht. Above/Below Ground Surface:		Sampling Method: BP	
Condition of Bottom of Well:		Type of Pump: Bladder Pump	
Screen Interval FTOC(ft) <u>15.85</u> <u>(-28.85)</u>		Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>Partly cloudy, H. wind, 90°</u>	
Well Diameter (in): <u>8</u>			
Placement of Pump Inlet (ft): <u>24.5</u>			

+/-0.1 +/-0.15 +/-390 +/-10 +/-10
Field Parameters

Time	Depth to Water (ft)	Flow Rate (L/m)	Total Volume (L)	pH	Temp. (C)	Cond. (umhos/cm)	ORP (mv)	DO (mg/L)	Turb. (NTU)	Type, Size, and Amount of Sediment Discharged	
1553	20.28	0.2	0.25	6.74	17.61	1434	128.1	0.90	35.5		
1558	20.28	0.2	1.25	6.54	16.82	1435	120.8	0.63	30.5		
1603	20.28	0.2	2.25	6.58	16.82	1431	114.2	0.54	26.3		
1608	20.28	0.2	3.25	6.74	16.78	1430	101.3	0.47	22.1	0.53 DO	
1613	20.28	0.2	4.25	6.74	16.66	1429	99.2	0.50	18.4		
1618	20.28	0.2	5.25	6.75	16.69	1428	96.5	0.41	15.2		
1623	20.28	0.2	6.25	6.79	16.68	1427	93.2	0.39	11.7		
1625	collect		samples	[59 SW 7 WGI]							

Observations

Color: <input checked="" type="radio"/> Clear Other (describe):
Odor: <input checked="" type="radio"/> None Low Medium High Very Strong H2S Fuel-like
Notes: <u>Pump #19095 (Q50 1.75-inch sample probe)</u>
<u>collect duplicate (590401WGI) sample time: 0901</u>
<u>1st 556 MPS (05B1766AA) Q50 MP10 (04322)</u>
<u>(another 2000 we (1860-0412)</u>
<u>Solo 1st 101 WGI (47088)</u>
Signed/Sampler(s): <u>Michael D. Jackson</u>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: SW-7

PROJECT NAME: AFP59

DATE/TIME: 8-1-12 1645

CITY/STATE: Johnson City, NY

INSPECTED BY: MIKE JACKSON

Water Level Indicator Serial No.:
SOLAJET 47088

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 28.62

WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 20.28

PVC WELL STICK-UP (FEET, ABOVE GRADE) 2.35

PROTECTIVE CASING STICK-UP (FEET, AGS) 2.65

WELL DIAMETER (INCHES) 2

WELL CONSTRUCTION (PVC, STEEL, ETC.) PVC

LOCKED UPON ARRIVAL? YES NO (Expanded cap)

LOCK REPLACED? YES (NO)

OBSTRUCTIONS? YES (NO)

DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES (NO) (If YES, detail in comments below)

WELL RELABELED? YES (NO)

WELL PHOTOGRAPHED? (YES) NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:
NO WORK ON STEEL PROTECTIVE CASING CAP

FIELD SAMPLING REPORT

LOCATION: AFP59	PROJECT NAME: AFP59 2012 GWS
SITE: AFP59	PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID: 59SW7WG1	DATE: <u>8-1-12</u> TIME: <u>1625</u>
MATRIX TYPE: WG	ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): <u>-</u> MATRIX SPIKE DUP (SD): <u>-</u> FIELD DUP (FD): <u>59DUP01W61</u> AMBIENT BLANK (AB): <u>59AB080112</u> EQUIPMENT BLANK (EB): <u>59EB080112</u> TRIP BLANK (TB): <u>59TB073112</u>
SAMPLING METHOD: BP	
LOT CONTROL #: _____ (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)	
CHAIN-OF-CUSTODY #: _____	
SAMPLE BEG. DEPTH (FT): <u>-</u>	
SAMPLE END DEPTH (FT): <u>-</u>	
GRAB <input checked="" type="checkbox"/> COMPOSITE ()	

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0</u>	COLOR: _____	
2nd _____	ODOR: _____	
	OTHER: _____	
pH _____ Temperature _____ (C) Dissolved Oxygen _____ (mg/L) Specific Conductivity _____ (umhos/cm) Iron _____ (mg/L) Oxidation/Reduction Potential _____ (mv) Turbidity _____ (NTU)		

GENERAL INFORMATION

WEATHER: SUN/CLEAR partly cloudy OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMPERATURE 90°F
 SHIPMENT VIA: FEDEX _____ HAND DELIVER x COURIER _____ OTHER _____
 SHIPPED TO: ~~Accutest Laboratories of Northeast~~ Alpha Analytical Albany, NY Marlboro, MA
 COMMENTS: _____
 SAMPLER: MIKE JACKSON OBSERVER: George Riker

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

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GROUNDWATER FIELD SAMPLING DATA SHEET

Well Name.: BM-121	Project Name: AFPS9	LOCID:
Sampler(s): MIKE JACKSON	Project No.: AF7061	
Well Depth: 56.04 (Man. Sect.)	Date: 08.02.12	Time: 08:00
DTW (ft TOC): 27.51	Screen Interval: N/A	
Well Diameter (in): 6" ST32	Placement of Pump (ft TOC): 51	
Type of Pump: QED 1.75-inch Sample Pro	Cloudy, Humid, 82°	

Field Parameters
 L/min L +/- 0.1 +/- 0.5 +/- 3% +/- 10 +/- 10

Time	Depth to Water (ft)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (microhm/cm) <small>M.S./cm</small>	ORP	DO (mg/L)	Turb (N.T.U.)	Description
0908	27.61	0.2	0.2	7.07	14.82	615	-5.8	1.67	14.4	
0913	27.61	0.2	1.2	6.96	14.60	617	-118.2	0.42	13.3	
0918	27.61	0.2	2.2	7.14	14.56	618	-124.7	0.27	12.8	
0923	27.61	0.2	3.2	7.42	14.53	619	-142.8	0.20	12.2	
0928	27.61	0.2	4.2	7.58	14.61	622	-143.1	0.14	12.9	
0933	27.61	0.2	5.2	7.66	14.75	627	-155.8	0.13	13.1	
0938	27.61	0.2	6.2	7.68	14.75	632	-156.2	0.12	12.5	
0943	27.61	0.2	7.2	7.66	14.73	639	-133.8	0.07	13.4	
0948	27.61	0.2	8.2	7.66	14.76	642	-148.2	0.08	13.5	
0953	27.61	0.2	9.2	7.65	14.82	650	-152.1	0.06	13.7	
0958	27.61	0.2	10.2	7.63	14.83	658	-153.8	0.16	13.5	
1000	collet									SAMPLES (59BM/W61) + DUPLICATE (59DUP02/W61)

Observations

Notes: DTW = 27.40 w/pump installed.	
YSI 556 MPS (#058766AA)	SoloST WLI model 101 (#50148)
Amotte 2020 We (#1860-042)	QED 300 3020 (2049) (Pine #05098)
QED MP-10 (#14974)	59DUP02/W61 Time = 0901
Signed/Sampler(s):	<i>Mark D. J.</i>

WELL INSPECTION AND GROUNDWATER LEVEL MEASUREMENT SHEET

WELL NUMBER: JA^{MS} 6M-121 PROJECT NAME: AFP59
DATE/TIME: 7/8 8/2/12 10/0 CITY/STATE: Johnson City, NY
INSPECTED BY: MIKE JACKSON Water Level Indicator Serial No.: SoloST 50148

VENT WELL

MONITORING WELL INSTRUMENT READING (VOCs): 0.0 ppm

WELL INSPECTION/GROUNDWATER LEVEL MEASUREMENT

WELL DEPTH (FEET FROM TOP OF PVC) 56.04
WATER LEVEL DEPTH (FEET FROM TOP OF PVC) 27.51
STEEL
PVC WELL STICK-UP (FEET, ABOVE GRADE) 3.15
PROTECTIVE CASING STICK-UP (FEET, AGS) NO PROTECTIVE CASING
WELL DIAMETER (INCHES) 6
WELL CONSTRUCTION (PVC, STEEL, ETC.) STEEL

LOCKED UPON ARRIVAL? YES NO
LOCK REPLACED? YES NO
OBSTRUCTIONS? YES NO
DAMAGE TO WELL PAD/STICKUP/CASING, ETC? YES NO (If YES, detail in comments below)
WELL RELABELED? YES NO
WELL PHOTOGRAPHED? YES NO

GENERAL CONDITION/COMMENTS/RECOMMENDATIONS:
STEEL CASING STICKUP well now
rather deep in grassy area
between sidewalk and road,



FIELD SAMPLING REPORT

LOCATION: AFP59 PROJECT NAME: AFP59 2012 GWS
 SITE: AFP59 PROJECT NO: AF7061

SAMPLE INFORMATION

SAMPLE ID: ~~59DWIWH~~ ^{MS} ~~8~~ ^{MS} **59TB121W61** DATE: **8-2-2012** TIME: **1000**

MATRIX TYPE: WG
 SAMPLING METHOD: BP
 LOT CONTROL #: _____
 (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #)
 CHAIN-OF-CUSTODY #: _____

SAMPLE BEG. DEPTH (FT): **—**
 SAMPLE END DEPTH (FT): **—**
 GRAB COMPOSITE ()

ENTER SAMPLE NUMBERS FOR QC SAMPLES/
 BLANKS ASSOCIATED WITH THIS SAMPLE:
 MATRIX SPIKE (MS): **—**
 MATRIX SPIKE DUP (SD): **—**
 FIELD DUP (FD): **—**
 AMBIENT BLANK (AB): **—**
 EQUIPMENT BLANK (EB): **—**
 TRIP BLANK (TB): **59TB073112**

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0	COLOR: _____	
2nd _____	ODOR: _____	
	OTHER: _____	
pH 7.63 Temperature 14.83 (C) Dissolved Oxygen 0.16 (mg/L) Specific Conductivity 658 (umhos/cm) Iron — (mg/L) Oxidation/Reduction Potential -155.8 (mv) Turbidity 13.5 (NTU) ms/cm		

GENERAL INFORMATION

WEATHER: SUN/CLEAR **cloudy** OVERCAST/RAIN WIND DIRECTION **calm** AMBIENT TEMPERATURE **82° F**

SHIPMENT VIA: FEDEX _____ HAND DELIVER COURIER _____ OTHER _____

SHIPPED TO: ~~Accutest Laboratories of Northeast Marlboro, MA~~ **Alpha Analytical Albany, NY**

COMMENTS:

SAMPLER: **MIKE JACKSON** OBSERVER: **—**

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP

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FIELD SAMPLING REPORT

LOCATION: AFP59 PROJECT NAME: AFP59 2012 GWS
 SITE: AFP59 PROJECT NO: AF7048

SAMPLE INFORMATION

SAMPLE ID: 59JCIWG1 MATRIX TYPE: WG SAMPLING METHOD: G LOT CONTROL #: _____ (Ambient Blank # - Equipment Blank # - Trip Blank # - Cooler #) CHAIN-OF-CUSTODY #: _____ SAMPLE BEG. DEPTH (FT): — SAMPLE END DEPTH (FT): — GRAB <input checked="" type="checkbox"/> COMPOSITE ()	DATE: <u>8-2-12</u> TIME: <u>1175</u> ENTER SAMPLE NUMBERS FOR QC SAMPLES/ BLANKS ASSOCIATED WITH THIS SAMPLE: MATRIX SPIKE (MS): _____ MATRIX SPIKE DUP (SD): _____ FIELD DUP (FD): _____ AMBIENT BLANK (AB): _____ EQUIPMENT BLANK (EB): _____ TRIP BLANK (TB): <u>59TB073112</u>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 mL VOA	3	Cool to 4C HCl pH<2	SW8260B	VOCs
1L Amber	2	Cool to 4C	8270C	1,4 Dioxane

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: _____	
2nd	ODOR: _____	
	OTHER: _____	
pH <u>6.94</u> Temperature <u>15.2</u> (C) Dissolved Oxygen <u>4.21</u> (mg/L) Specific Conductivity <u>1492</u> (umhos/cm) Iron <u>—</u> (mg/L) Oxidation/Reduction Potential <u>138.4</u> (mv) Turbidity <u>0.12</u> (NTU)		

GENERAL INFORMATION

WEATHER: SUN/CLEAR Inside Buildings OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMPERATURE 80°
 SHIPMENT VIA: FEDEX _____ HAND DELIVER x COURIER _____ OTHER _____
 SHIPPED TO: ~~Accutest Laboratories of Northeast, Marlboro, MA~~ Alpha Analytical Auburn, MA
 COMMENTS:
 SAMPLER: MIKE JACKSON OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BP=BLADDER PUMP	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	PP=PERISTALTIC PUMP	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	CS=COMPOSITE SAMPLE	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
		DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP



STATIC GROUNDWATER ELEVATION LOG

Project Name: AFP59 2012 Groundwater Sampling Event

Project No.: AF7061

Water Level Indicator ID#: Water Level Indicator (Solinst model # 47088) PID Meter ID#: MiniRAE 2000

Well Identification	Date	Time	Static Depth to Water (from TOC)	Depth to Product (from TOC)	PID Reading	Comments
DW-1 DW-37/31/12	1633		18.21		0.4	
SW-1 SW-3	1637	20'	18.19		0.0 3.1	
SW-4	7/31/12		NOT FOUND			
SW-7	7/31/12	1645	20.36		0.0	
2" SW-3 SW-1		1652	20.06		0.0	
4" DW-3 DW-1		1654	17.21		0.0	
URS-2D		1440	33.11		0.0	
URS-2S		1715	34.35		0.0	
URS-3D		1120	39.35		0.0	
URS-5S			24.18		0.0	
URS-9S			NOT FOUND			
BM-121	8/2/12	0805	27.51		0.0	

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CHAIN OF CUSTODY

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: HGL
 Address: 313 Ushers Road
 Ballston Lake, NY 12019
 Phone: (518) 877-0390
 Fax: (518) 877-0414
 Email: pdacyk@hgl.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

SEE QAPP provided to Alpha by HGL

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

						VOCs 8260B	1,4 Dioxane (8270C)											SAMPLE HANDLING Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not Needed Preservation <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below) Sample Specific Comments	TOTAL # BOTTLES					
	59URS2SWG1	7-31-12	1812	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	59URS3DWG1	7-31-12	1301	GW	GR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8
	59URS5SWG1	8-1-12	1200	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8
	59URS6SWG1			GW		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8
	59EB 080112	8-1-12	1815	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8
	59TB 073112	7-31-12	0800	GW		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vocs only	8
	59DUP01WG1	8-1-12	0901	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2
	59DUP02WG1	8-2-12	0901	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8
	59ABO 80112	8-1-12	1615	GW	MDS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO. 01-01(1)
(rev. 30-JUL-07)

Container Type	V	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	8-2-12 1752	<i>[Signature]</i>	8-2-12 1752

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 1 OF 2

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

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 Address: 313 Ushers Road
 Ballston Lake, NY 12019
 Phone: (518) 877-0390
 Fax: (518) 877-0414
 Email: pdacyk@hgl.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

SEE QAPP provided to Alpha by HGL

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

ALPHA Lab ID	Sample ID	Date	Time	Sample Matrix	Sampler's Initials	VOCs 8260B	1,4 Dioxane (8270C)	ANALYSIS										SAMPLE HANDLING	TOTAL # BOTTLES					
	59DW1WG1	8-1-12	1013	GW	GR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59DW3WG1	8-1-12	1502	GW	GR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59DW1WG1 59JC3WG1	8-2-12	1145	GW	MS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
	59SW1WG1	8-1-12	1133	GW	GR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59SW3WG1	↓	1622	GW	GR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59SW1WG1 59BM121WG1	8-2-12	1000	GW	MS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59SW7WG1	8-1-12	1625	GW	MS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59URS2DWG1	7-31-12	1617	GW	GR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59URS2DWG1-MS	↓	↓	GW	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	9URS2DWG1-MSD	↓	↓	GW	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

Sample Specific Comments

HOLD Analysis - HGL will call

MS of 59URS2DWG1
 MSD of 59URS2DWG1

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	V	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO. 01-0111 (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Reed</i>	8-2-12 1752	<i>Robert Ham</i>	8-2-12 1752

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CHAIN OF CUSTODY

PAGE 1 OF 1

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 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

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 Address: 313 Ushers Road
 Ballston Lake, NY 12019
 Phone: (518) 877-0390
 Fax: (518) 877-0414
 Email: pdacyk@hgl.com
 These samples have been Previously analyzed by Alpha

Project Information

Project Name: AFP 2012 Groundwater Sampling
 Project Location: AFP59 Johnson City, NY
 Project #: AF7061
 Project Manager: Pete Dacyk
 ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)
 Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:
EXPECTED HIGH CONCENTRATIONS in 59SW4WG1 sample. SCREEN FIRST.
 SEE QAPP provided to Alpha by HGL

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS													SAMPLE HANDLING	TOTAL # BOTTLES						
		Date	Time			VOCs 8260B	1,4 Dioxane (8270C)																			
	59SW4WG1	8-29-12	1533	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
	59EB082912		1650	GW	MDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
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PLEASE ANSWER QUESTIONS ABOVE!

Container Type	V	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-

IS YOUR PROJECT
 MA MCP or CT RCP?

Retinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	8/30/12 1345	Kyle Cunningham	8/30/12 1345

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