envirospec
ENGINEERING, PLLC

349 Northern Blvd. Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.453.2204
www.envirospeceng.com

December 4, 2014

Mr. Thomas Biel
NYS Department of Environmental Conservation
Region 7 Office
Division of Environmental Remediation
615 Erie Boulevard West
Syracuse, NY 13204

Re: Stauffer Management Company, LLC- Maestri Site
NYSDEC Site No. 7-34-025
900 State Fair Boulevard
Town of Geddes, NY

Mr. Biel,

Enclosed is the October 2014 Semi-Annual Groundwater Monitoring Report for the Maestri Site, prepared by Envirospec Engineering on behalf of Stauffer Management Company, LLC (SMC). Should you have any questions, please do not hesitate to contact me at (518) 453-2203.

Sincerely,

Gianna Aiezza

Gianna Aiezza, P.E.
Principal Engineer

Enc.

Cc: R. Jones, NYSDOH
C. Elmendorf, SMC

STAUFFER MANAGEMENT COMPANY
MAESTRI SITE
GEDDES, NEW YORK

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

POST GROUNDWATER COLLECTION / TREATMENT SYSTEM SHUTDOWN

October 2014

Prepared for:

Stauffer Management Co.
1800 Concord Pike
Wilmington, DE 19850-5437

Prepared by:

349 Northern Blvd. Suite 3
Albany, NY 12204

Envirospec Engineering Project E07-102

Date Prepared: November 2014

TABLE OF CONTENTS

TABLES

FIGURES

ATTACHMENTS

1.0 INTRODUCTION

This report addresses the semiannual groundwater sampling event that was completed on October 21, 2014. The period of time covered by this report is from July 2014 to December , 2014. This report is organized into the following sections:

- Site Background
- Recent Site Activities
- Groundwater Sampling
- Groundwater Quality
- Site Inspections
- Site Maintenance
- Report Summary

A site map showing the location of site monitoring wells, recovery wells, and piezometers is attached as Figure 1.

2.0 SITE BACKGROUND

The groundwater treatment system at the Stauffer Management Company (SMC) Maestri Site began operation in 1996. On behalf of SMC, on May 8, 2008, Envirospec Engineering, PLLC (Envirospec) submitted a request to the New York State Department of Environmental Conservation (NYSDEC) to shut down the treatment system. As stated in the request, levels of contaminants remaining in the site groundwater were low, the system was no longer effective as shown by the consistency of the results, and the groundwater treatment system had achieved the goals of the ROD. NYSDEC approved this request in a letter dated May 14, 2008, and the groundwater treatment system was shut down on May 27, 2008.

SMC agreed to conduct weekly site inspections and monthly sampling of eight (8) perimeter monitoring wells for the first three months following shutdown, from June to August 2008. The elevations of site monitoring wells were also monitored on a monthly basis during this time. After the three month period, sampling and reporting was conducted quarterly from November 2008 to June 2009.

In June 2009, a new monitoring well (PZ-20) was installed downgradient of the site in the Alhan Parkway residential area (153 Alhan Parkway) to verify that the Maestri site groundwater contamination plume was not migrating towards this residential area. A second downgradient monitoring well (PZ-21) was installed in June 2012. The locations of PZ-20 and PZ-21 are shown on Figures 2 and 3.

Based on groundwater monitoring results, in November 2009, Envirospec requested NYSDEC approval to change the groundwater sampling frequency from quarterly to semiannual. On November 13, 2009, the NYSDEC granted the request.

As discussed in Envirospec's May 8, 2008 letter, the monitoring wells selected for sampling after shutdown present a true cross section of the property and continued sampling of these monitoring wells remains adequate for plume migration monitoring.

3.0 GROUNDWATER SAMPLING – OCTOBER 2014

The 2nd 2014 semiannual groundwater sampling event for 2014 was conducted on October 21, 2014. Prior to monitoring well purging, all site monitoring wells were gauged for static water level. A table of groundwater elevations from the October 2014 sampling event is included as Table 1 below. A groundwater contour map depicting calculated site groundwater elevations is provided as Figure 2.

Table 1
Groundwater Elevations - October 21, 2014

Well Number	Measuring Point Elevation	Depth to Water	Groundwater Elevation
MW-9	408.87	17.93	390.94
MW-10	413.82	15.43	398.39
MW-12	418.28	12.84	405.44
MW-14	405.17	18.25	386.92
PZ-2	407.23	15.43	391.80
PZ-3	409.60	14.7	394.90
PZ-4	394.37	9.15	385.22
PZ-5	393.37	8.3	385.07
PZ-6	410.15	13.12	397.03
PZ-7	409.13	15.55	393.58
PZ-9	408.69	13.05	395.64
PZ-10	407.04	12.1	394.94
PZ-12	408.17	15.31	392.86
PZ-13	407.12	16.36	390.76
PZ-14	408.44	14.97	393.47
PZ-15	406.74	19.51	387.23
PZ-18	406.30	19.38	386.92
PZ-19	406.88	18.75	388.13
PZ-20	386.00	4.41	379.73
PZ-21	386.70	3.3	383.40
MW-2A (formerly RW-2)	406.40	18.22	388.18
RW-3	407.01	20.33	386.68
RW-5	409.18	17.45	391.73
RW-6	393.64	7.6	386.04
RW-7	405.76	18.95	386.81
RW-8	406.81	17.16	389.65

A minimum of three (3) monitoring well volumes were purged from each of the monitoring wells scheduled for sampling. Monitoring wells were purged with a two (2)-inch submersible Grundfos pump and poly tubing, a two (2)-inch disposable polyethylene bailer, or internal well pumps controlled from the treatment shed. Purged water was collected and containerized in a mobile poly tank. The containerized water was transported to the Skaneateles Falls Site and sent through the onsite Waste Water Treatment Plant (WWTP) for treatment. Field data, including

pH, temperature, conductivity, turbidity, oxidation/reduction potential, dissolved oxygen, and total dissolved solids (TDS), were recorded after each well volume removed. A summary of the field data and the total volume of groundwater purged are presented in Table 4. All samples were collected using disposable bailers following well purging activities. The monitoring well sampling field reports are included as Attachment 1.

A duplicate sample was collected from RW-6 for laboratory and sampling quality assurance/quality control purposes. The result of the duplicate sample, as shown in Table 3, was consistent with the original sample. A trip blank was generated to ensure no cross contamination or outside contamination was present.

4.0 GROUNDWATER QUALITY

Samples were sent to Accutest Laboratories (Accutest) in Marlborough, MA following typical chain of custody procedures for xylene analysis via EPA Method 624. The analytical results are included as Attachments 2. A summary of results from this sampling round is presented in Tables 2 below and historical groundwater data to date is included in the attached Table 3.

Table 2 Summary of Xylene Concentration in Groundwater

	Oct -14
Well Number	**Xylene Concentration (ppb)**
RW-3	< 1.0
RW-5	<1.0
RW-6	466 (470 Duplicate)
RW-7	184
RW-8	<1.0
MW-2A	825
MW-9	145
PZ-4	7.1
PZ-20	<1.0
PZ-21	<1.0
TRIP	<1.0

Note: *Duplicate sample represented in (parentheses).*

For the October 2014 sampling event, monitoring wells RW-6, RW-7, MW-2A, MW-9 and PZ-4 presented xylene concentrations above the groundwater standard of 5 ppb. The xylene levels at RW-7 and PZ-4indicate an increase in total xylene since the June 2014sampling event, however these levels are consistent with historical concentrations documented during previous sample events to date. Monitoring wells; RW-3, RW-5, RW-8, PZ-20 and PZ-21 were non-detect for xylene during the October 2014 sample event.

Xylene results for offsite monitoring well PZ-21, located at 151 Alhan Parkway, indicated a xylene concentration of 3.5 ppb during the June2014. This concentration was below the groundwater standard of 5 ppb. Xylene results for PZ-21 during October 2014 are non-detect.

Based on the October 2014 sampling results, site groundwater quality continues to show seasonal fluctuations in total xylene concentrations and remain consistent with historic total xylene concentrations across the site.

5.0 SITE INSPECTIONS

Since August 2008, site inspections were conducted during each groundwater sampling event. Items reviewed during the site inspections include site security, recovery and monitoring well water elevations, general site maintenance, erosion control, condition of neighboring properties and general observations of site conditions (i.e. appearance of sink holes, odors, vegetation growth, etc). A copy of the site inspection report completed during the October 2014 sampling event is included as Attachment 3.

6.0 SUMMARY

There have been no flooding events that compromised the effectiveness of the Engineering Controls (i.e. soil cover and vegetation) in place at the site since the groundwater treatment system shutdown. Xylene levels in PZ-21 during the October 2014 monitoring event were reported as non-detect. Detections of xylene across the site continue to show seasonal fluctuations and concentrations remain consistent with historical xylene concentrations.

The next semi-annual sampling event and site inspection will be completed prior to June 30, 2015. The NYSDEC will be notified at least two (2) weeks prior to the scheduled sampling event.

TABLES

Table 3
Summary of Total Xylene Concentrations (ppb)
Field Data and Total Purge Volumes - October 2014
Maestri Site

Sample Date	RW-1	RW-2[2]	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8	MW-2A[2]	MW-9	PZ-4	PZ-20	PZ-21
2-May-06	**	****	<3.0	**	<3.0	58	<30	<3.0	2400	--	--	*****	******
6-Jun-06	**	****	<3.0	**	<3.0	9	102	<3.0	--	--	--	*****	******
4-Jul-06	**	****	<3.0	**	<3.0	34	130	--	665	--	--	*****	******
1-Aug-06	**	****	5	**	<3.0	63	90	<3.0	--	--	--	*****	******
3-Oct-06	**	****	3.3	**	<3.0	3	55	--	<3.0	--	--	*****	******
2-Jan-07	**	****	<3.0	**	<3.0	29	40	--	<3.0	--	--	*****	******
3-Apr-07	**	****	INC	**	<3.0	145	3.7	--	6.4	--	--	*****	******
3-Jul-07	**	****	<3.0	**	<3.0	<3.0	<3.0	--	410	--	--	*****	******
2-Oct-07	**	****	<3.0	**	<3.0	30	6	--	1025	--	--	*****	******
7-Jan-08	**	****	<3.0	**	14	52	<3.0	--	3.0	11	--	*****	******
1-Apr-08	**	****	22	**	<3.0	27	15	--	987	--	--	*****	******
Treatment System Shutdown on May 27th, 2008													
Jun-08	**	****	6.1	**	<3.0	84	119	<3.0	68 (54)	964	< 3.0	*****	******
Jul-08	**	****	4.4	**	<3.0 (< 3.0)	71	124	<3.0	1,700	1,800	< 3.0	*****	******
Aug-08	**	****	4.3	**	<3.0	148	104	<3.0	1,770 (1,200)	1,795	< 3.0	*****	******
Nov-08	**	****	<3.0	**	<3.0	158	73	<3.0	16	73	< 3.0	*****	******
Feb-09	**	****	<3.0	**	<3.0	590	<3.0 (< 3.0)	< 3.0	9.1	< 3.0	< 3.0	*****	******
Jun-09	**	****	<3.0	**	<3.0	641	23	< 3.0	4,635	7,830	< 3.0	<3.0	******
Dec-09	**	****	<3.0	**	<3.0	417	169	<3.0	5780	5,145	<3.0	<3.0	******
May-10	**	****	<3.0	**	<3.0	862	15	<3.0	100 (122)	190	<3.0	<3.0	******
Oct-10	**	****	<3.0	**	<3.0	168 (157)	71	<3.0	32	<3.0	<3.0	<3.0	******
Apr-11	**	****	<3.0	**	<3.0	208	66	<3.0	685	3,598 (3,220)	10	<3.0	******
Jun-11	**	****	NS	**	NS	906	7.7 (7.8)	NS	5352	9,337	<3.0	<3.0	******
Nov-11	**	****	<3.0	**	<3.0	749	<3.0	<3.0	1,560 (1980)	3.8	<3.0	<3.0	<3.0
Jun-12	**	****	< 3.0	**	< 3.0	622	41	< 3.0	230 (179)	5,370	< 3.0	< 3.0	< 3.0
Dec-12	**	****	< 3.0	**	13	511	145	7.2	2,903	NS (DRY)	< 3.0	< 3.0 (<3.0)	< 3.0
Jun-13	**	****	< 3.0	**	< 3.0	14	< 3.0	< 3.0	< 3.0	< 3.0 (<3.0)	4.1	< 3.0	< 3.0
Nov-13	**	****	< 3.0	**	< 3.0	418	91	< 3.0	2,722	7.0	4.9	< 3.0	< 3.0 (<3.0)
Jun-14	**	****	< 3.0	**	< 3.0 (<3.0)	770	8.0	< 3.0	2,800	4700	< 3.0	< 3.0	3.5
Oct-14	**	**	<1.0	**	<1.0	466 (470)	184.0	<1.0	825	145	7.1	<1.0	<1.0

Shaded boxes indciate result when treatment system was in operation
** - Wells No. 1 and 4 were removed as part of the excavation.
*** - Pump in Well 5 was moved to Well 8.
**** - RW2 changed to monitoring well MW-2A
*****- PZ-20 was installed on June 24, 2009
******- PZ-21 was installed on June 7, 2012
NS = Not Sampled.

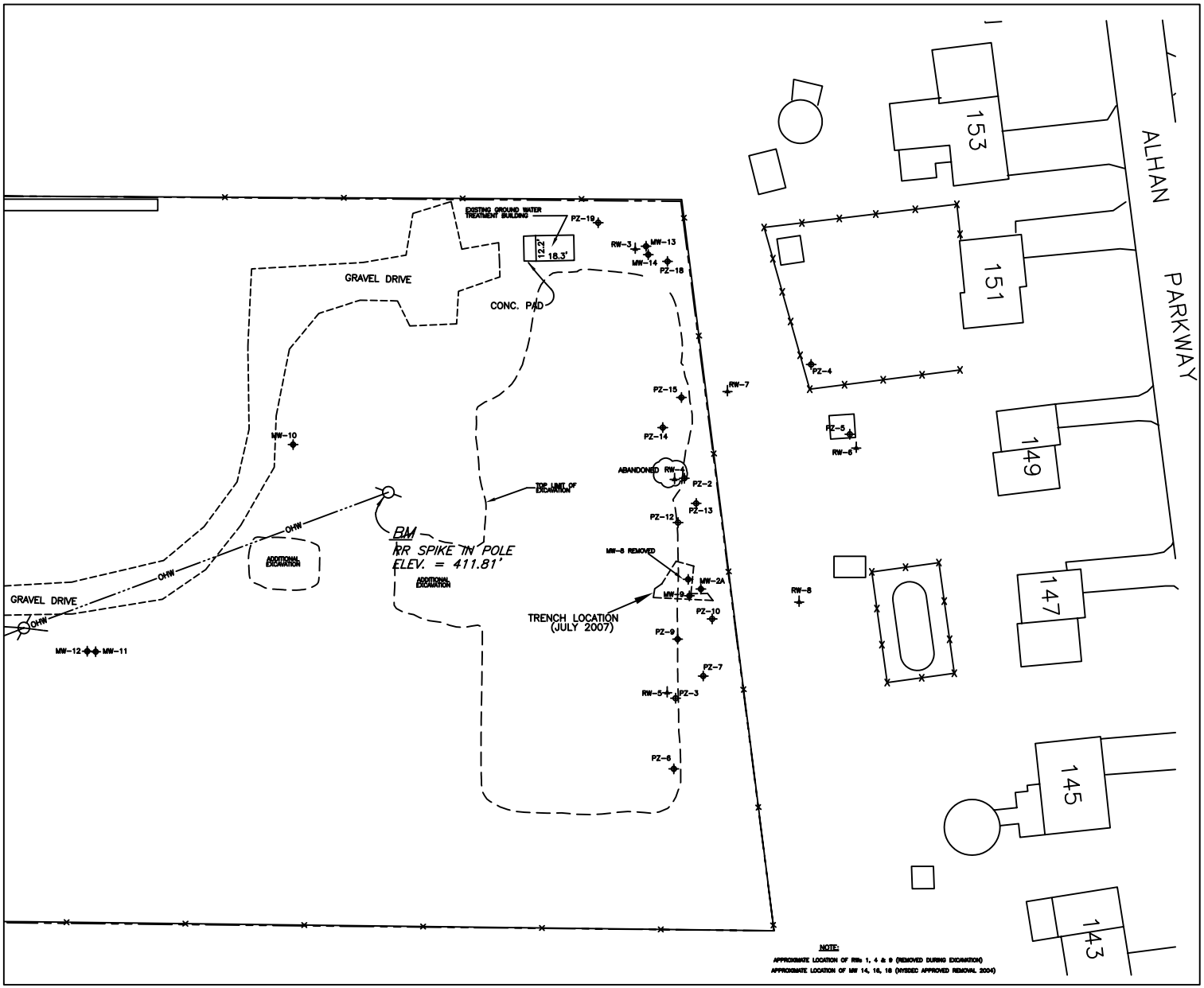
[2] RW-2 was changed to a monitoring well (MW-2A) in April 2006
INC - Inconclusive laboratory result
Value in parenthesis is duplicate sample result

Table 4
Field Data and Total Purge Volumes - October 2014
Stauffer Management Company
Maestri Site

Monitoring Well	Date Sampled	Diameter (in)	Total Well Depth (ft bgs)	Top of Casing to Grade (ft)	Depth to Water (ft)	Water Column Height (ft)	Purged Volume (gal)	Final pH	Final Temp (deg C)	Final Conductivity (mS/cm)	Final TDS (ppm)	ORP (mV)	Turbidity (NTU)	DO (mg/L)
MW-9	10/21/2014	2	19.60	1.0	17.93	2.67	1.31	7.21	11.58	0.803	514	-101	190	8.97
MW-2A (formerly RW-2)	10/21/2014	8	20.64	2.7	18.22	5.12	40.07	7.86	11.84	1.99	1280	-84	223	8.12
RW-3	10/21/2014	6	25.33	1.0	20.33	6.00	26.42	7.21	11.51	1.87	801	-90	139	0
RW-5	10/21/2014	6	24.53	1.0	17.45	8.08	35.58	7.63	13.12	0.781	435	-120	23.9	3.21
RW-6	10/21/2014	6	21.86	0.0	7.60	14.26	62.80	8.41	11.98	1.22	846	-51	22.8	7.01
RW-7	10/21/2014	6	27.50	1.0	18.95	9.55	42.06	8.45	11.59	4.91	3210	-220	124	6.57
RW-8	10/21/2014	6	24.50	1.0	17.16	8.34	36.73	7.78	13.79	0.709	539	-95	49.2	4.39
PZ-4	10/21/2014	2	19.50	0.0	9.15	10.35	5.06	7.86	12.19	1.12	715	-118	488	11.62
PZ-20	10/21/2014	2	20.00	0.0	4.41	15.59	7.62	7.57	15.24	0.751	481	-46	23.1	11.2
PZ-21	10/21/2014	2	19.50	0.0	3.30	16.20	7.92	7.57	15.24	0.751	481	-46	23.1	0.0

FIGURES

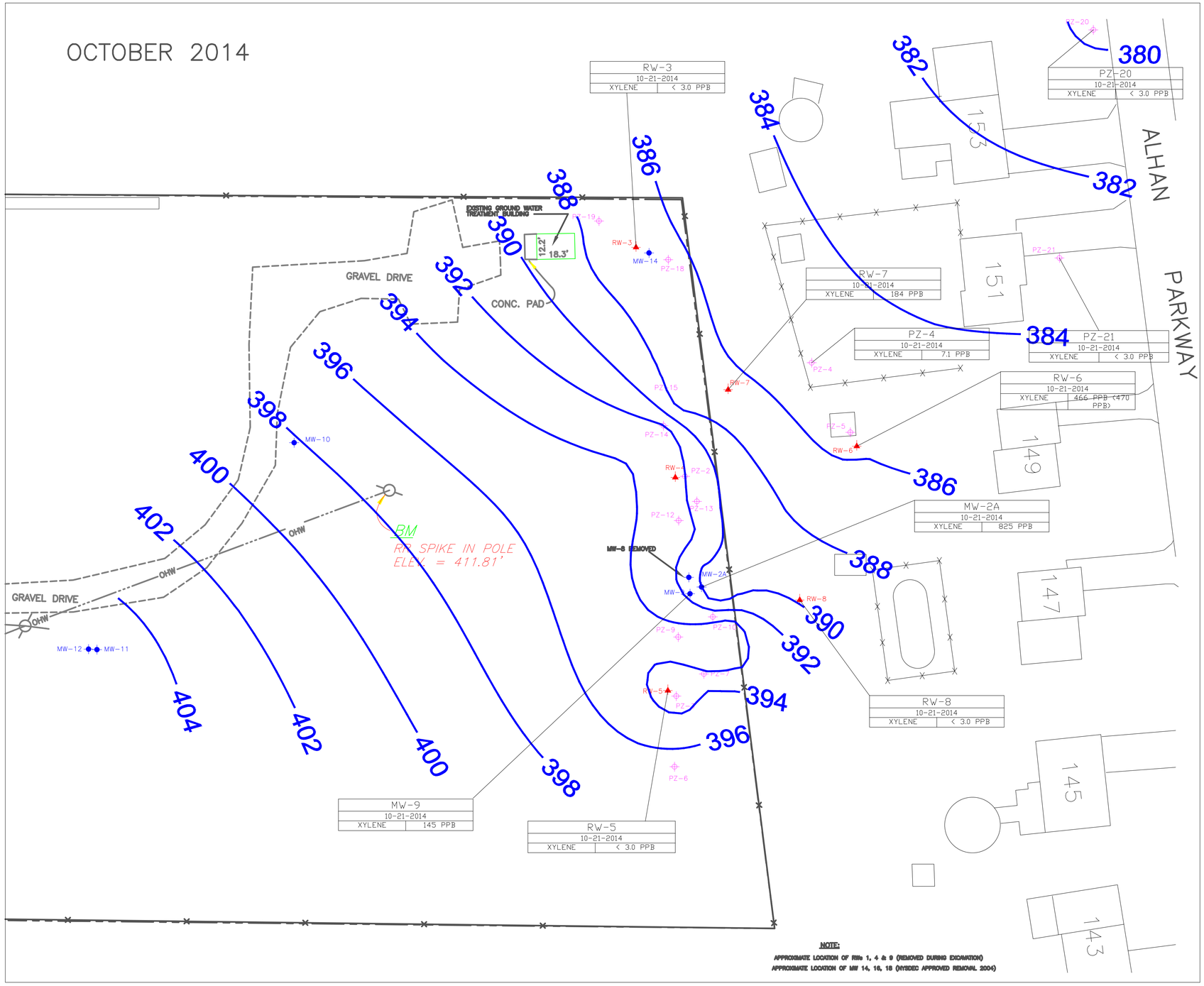
IMAGE	X-REF	OFFICE	DRAWN BY	REVISED	APPROVED BY	DRAWING NUMBER
---	---	ALB	DEO 7-19-99	MRW 07/07/08	---	SUMJUL99



STAUFFER
MANAGEMENT COMPANY
BASE MAP PROVIDED BY IT CORPORATION
SURVEY BY CT MALE

FIGURE 1
SITE PLAN
2008
MAESTRI SITE
904 STATE FAIR BLVD.
GEDDES, NEW YORK

IMAGE	X-REF	OFFICE	DRAWN BY	REVISED	APPROVED BY	DRAWING NUMBER
---	---	ALB	DEO 7-19-99	EH 10/27/14	---	OCTOBER 2014



CLIENT

STAUFFER
MANAGEMENT COMPANY
BASE MAP PROVIDED BY IT CORPORATION
SURVEY BY CT MALE

FIGURE 2A

GROUNDWATER CONTOURS
WITH XYLENE CONCENTRATION SUMMARY
MAESTRI SITE–OCTOBER 2014
904 STATE FAIR BLVD.
GEDDES, NEW YORK

IMAGE	X-REF	OFFICE	DRAWN BY	REVISED		APPROVED BY	DRAWING NUMBER
---	---	ALB	DEO	EH	10/27/14	---	OCTOBER 2014
			7-19-99				

OCTOBER 2014

RW-3	
NOV 2011	< 3.0 PPB
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB

PZ-20	
NOV 2011	< 3.0 PPB
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB

PZ-21	
NOV 2011	< 3.0 PPB
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	3.5 PPB
OCT 2014	< 3.0 PPB

RW-7	
NOV 2011	< 3.0 PPB
JUN 2012	41 PPB
DEC 2012	145 PPB
JUN 2013	< 3.0 PPB
NOV 2013	91 PPB
JUN 2014	8.0 PPB
OCT 2014	184 PPB

PZ-4	
NOV 2011	< 3.0 PPB
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	4.1 PPB
NOV 2013	4.9 PPB
JUN 2014	< 3.0 PPB
OCT 2014	7.1 PPB

RW-6	
NOV 2011	749 PPB
JUN 2012	622 PPB
DEC 2012	511 PPB
JUN 2013	14 PPB
NOV 2013	418 PPB
JUN 2014	770 PPB
OCT 2014	466 PPB (470 PPB)

RW-8	
NOV 2011	< 3.0 PPB
JUN 2012	< 3.0 PPB
DEC 2012	7.2 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB

MW-9	
NOV 2011	3.8 PPB
JUN 2012	5370 PPB
DEC 2012	NS (DRY)
JUN 2013	< 3.0 PPB
NOV 2013	7.0 PPB
JUN 2014	4,700 PPB
OCT 2014	145 PPB

MW-2A	
NOV 2011	1560 PPB
JUN 2012	230 PPB
DEC 2012	2903 PPB
JUN 2013	< 3.0 PPB
NOV 2013	2722 PPB
JUN 2014	2,800 PPB
OCT 2014	825 PPB

RW-5	
NOV 2011	< 3.0 PPB
JUN 2012	< 3.0 PPB
DEC 2012	13 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB

ALHAN PARKWAY

GRAVEL DRIVE

EXISTING GROUND WATER TREATMENT BUILDING

CONC. PAD

12.2'

18.3'

OHW

BM
RR SPIKE IN POLE
ELEV. = 411.81'

MW-8 REMOVED

NOTE:
APPROXIMATE LOCATION OF RWs 1, 4 & 9 (REMOVED DURING EXCAVATION)
APPROXIMATE LOCATION OF MW 14, 16, 18 (NYSDEC APPROVED REMOVAL 2004)

LEGEND

- MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE

SCALE
0 30 60 90 FEET

CLIENT
STAUFFER
MANAGEMENT COMPANY
BASE MAP PROVIDED BY IT CORPORATION
SURVEY BY CT MALE

FIGURE 2B
GROUNDWATER CONTOURS
WITH XYLENE CONCENTRATION SUMMARY
MAESTRI SITE–OCTOBER 2014
904 STATE FAIR BLVD.
GEDDES, NEW YORK

ATTACHMENTS

ATTACHMENT 1

Monitoring Well Sampling Field Reports

envirospec ENGINEERING, PLLC
349 Northern Blvd
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800

Well No:	MW-9	
Date(s):	10/21/2014	
Weather	Temperature	
Overcast	High:	55
	Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	MW-9	Well Location:	Near Back Gate		
Well Diameter (in):	2	Well Condition:	OK		
A. Total Well Depth (ft bgs):	19.6	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	1	TOC Elevation (ft):	408.87		
C. Depth to Water TOC (ft):	17.93	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	2.67	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	0.43521	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	1.30563	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Bailer
Purge Start Time:	1150	Approx Flow Rate:	0.07 Gal/min
Purge Stop Time:	1209	Approx Volume Removed:	1.305
Did well dry out?	No		

Sampling

Date:	10/21/2014	pH:	7.31	7.27	7.21
Time:	1210	Temp (ºC):	11.67	11.62	11.58
Sample ID:	MW-9	Conductivity (uS/cm):	0.828	0.812	0.803
Sample Method:	Grab	TDS (ppm):	530	520	514
		ORP (mV):	-98	-110	-101
		Tubidity (NTU):	53.9	177	190
		DO (mg/L):	8.88	9.83	8.97

Appearance

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	MW-2A	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	MW-2A	Well Location:	Near Back Gate		
Well Diameter (in):	8	Well Condition:	OK		
A. Total Well Depth (ft bgs):	20.64	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	2.7	TOC Elevation (ft):	406.4		
C. Depth to Water TOC (ft):	18.22	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	5.12	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	13.3632	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	40.0896	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Bailer
Purge Start Time:	210	Approx Flow Rate:	0.85 Gal/Min
Purge Stop Time:	257	Approx Volume Removed:	40
Did well dry out?	No		

Sampling

Date:	10/21/2014	pH:	7.53	7.54	7.86
Time:	300	Temp (ºC):	11.69	11.7	11.84
Sample ID:	MW-2A	Conductivity (uS/cm):	1.9	1.93	1.99
Sample Method:	Grab	TDS (ppm):	1220	1230	1280
		ORP (mV):	-96	-93	-84
		Tubidity (NTU):	10	297	223
		DO (mg/L):	7.37	7.8	8.12

Appearance

Light Grey/ Turbid

Comments

envirospec ENGINEERING, PLLC
349 Northern Blvd
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800

Well Sampling Field Record

Well No:	RW-3				
Date(s):	10/21/2014				
Weather		Temperature			
Overcast		High:	55		
		Low:	48		
Project:	Maestri Site	Project No.	E12-621		
Location:	904 State Fair Blvs, Syracuse, NY 13209				

Well Info

Well #:	RW-3	Well Location:	Inside fence, northeast corner side		
Well Diameter (in):	6	Well Condition:	OK		
A. Total Well Depth (ft bgs):	25.33	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	1	TOC Elevation (ft):	407.01		
C. Depth to Water TOC (ft):	20.33	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	6	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	8.82	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	26.46	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Grundfos Pump
Purge Start Time:	1350	Approx Flow Rate:	0.44 Gal/Min
Purge Stop Time:	1450	Approx Volume Removed:	26.46
Did well dry out?	Yes		

Sampling

Date:	10/21/2014	pH:	7.44	8.41	7.21
Time:	315	Temp (ºC):	11.76	11.21	11.51
Sample ID:	RW-3	Conductivity (uS/cm):	1.32	1.85	1.87
Sample Method:	Grab	TDS (ppm):	842	795	801
		ORP (mV):	-77	-85	-90
		Tubidity (NTU):	165	145	139
		DO (mg/L):	0.0	0.0	0.0

Appearance

Turbid/ Black

Comments

Possible issue with DO count

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	RW-5	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	RW-5	Well Location:	Inside fence, South side		
Well Diameter (in):	6	Well Condition:	Ok		
A. Total Well Depth (ft bgs):	24.53	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	1	TOC Elevation (ft):	409.18		
C. Depth to Water TOC (ft):	17.45	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	8.08	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	11.8776	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	35.6328	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Shed (Installed pump)
Purge Start Time:	1145	Approx Flow Rate:	0.14 Gal/Min
Purge Stop Time:	1545	Approx Volume Removed:	25
Did well dry out?	Yes		

Sampling

Date:	10/21/2014	pH:	7.93	7.31	7.63
Time:	1600	Temp (ºC):	13.12	13.75	13.12
Sample ID:	RW-5	Conductivity (uS/cm):	0.918	0.695	0.781
Sample Method:	Grab	TDS (ppm):	587	445	435
		ORP (mV):	-132	-125	-120
		Tubidity (NTU):	79	24.6	23.9
		DO (mg/L):	4.06	2.84	3.21

Appearance

Turbid at first, then became clear.

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	RW-6	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	RW-6	Well Location:	Backyard of residence		
Well Diameter (in):	6	Well Condition:	Ok		
A. Total Well Depth (ft bgs):	21.86	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	flush	TOC Elevation (ft):	393.64		
C. Depth to Water TOC (ft):	7.6	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	14.26	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	20.9622	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	62.8866	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Shed (Installed Pump)
Purge Start Time:	1215	Approx Flow Rate:	2.48 Gal/Min
Purge Stop Time:	1240	Approx Volume Removed:	62
Did well dry out?	No		

Sampling

Date:	10/21/2014	pH:	8.85	7.97	8.41
Time:	105	Temp (ºC):	12.62	11.97	11.98
Sample ID:	RW-6	Conductivity (uS/cm):	1.33	1.23	1.22
Sample Method:	Grab	TDS (ppm):	845	797	846
		ORP (mV):	-45	-50	-51
		Tubidity (NTU):	22.9	23.1	22.8
		DO (mg/L):	7.03	6.09	7.01

Appearance

Black with Strong odor

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	RW-7	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	RW-7	Well Location:	Outside fence east side		
Well Diameter (in):	6	Well Condition:	OK		
A. Total Well Depth (ft bgs):	27.5	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	1	TOC Elevation (ft):	405.76		
C. Depth to Water TOC (ft):	18.95	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	9.55	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	14.0385	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	42.1155	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Grundfos
Purge Start Time:	1220	Approx Flow Rate:	0.19 Gal/Min
Purge Stop Time:	1600	Approx Volume Removed:	42
Did well dry out?	Yes		

Sampling

Date:	10/21/2014	pH:	8.31	8.47	8.45
Time:		Temp (ºC):	11.31	12.09	11.59
Sample ID:	RW-7	Conductivity (uS/cm):	3.95	5.05	4.91
Sample Method:	Grab	TDS (ppm):	2360	3180	3210
		ORP (mV):	-149	-252	-220
		Tubidity (NTU):	133	24.9	124
		DO (mg/L):	10.39	7.53	6.57

Appearance

Slighlty Brown

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	RW-8	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	RW-8	Well Location:	Outside fence, north side, in path		
Well Diameter (in):	6	Well Condition:	OK		
A. Total Well Depth (ft bgs):	24.5	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	1	TOC Elevation (ft):	406.81		
C. Depth to Water TOC (ft):	17.16	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	8.34	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	12.2598	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	36.7794	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Shed (installed Pump)
Purge Start Time:	1220	Approx Flow Rate:	0.45 Gal/Min
Purge Stop Time:	1340	Approx Volume Removed:	36
Did well dry out?	Yes		

Sampling

Date:	10/21/2014	pH:	8.92	7.7	7.78
Time:	1209	Temp (ºC):	12.97	13.75	13.79
Sample ID:	RW-8	Conductivity (uS/cm):	1.05	0.684	0.709
Sample Method:	Grab	TDS (ppm):	673	438	539
		ORP (mV):	-130	-85	-95
		Tubidity (NTU):	85.7	52.2	49.2
		DO (mg/L):	3.3	4.36	4.39

Appearance

Rusty/Murky

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	PZ-4	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	PZ-4	Well Location:	Backyard of residence		
Well Diameter (in):	2	Well Condition:	OK		
A. Total Well Depth (ft bgs):	19.5	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	flush	TOC Elevation (ft):	394.37		
C. Depth to Water TOC (ft):	9	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	10.35	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	1.68705	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	5.06115	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Bailer
Purge Start Time:	1100	Approx Flow Rate:	0.2 Gal/Min
Purge Stop Time:	1119	Approx Volume Removed:	5
Did well dry out?	No		

Sampling

Date:	10/21/2014	pH:	7.64	7.64	7.86
Time:	1121	Temp (ºC):	12.45	12.37	12.19
Sample ID:	PZ-4	Conductivity (uS/cm):	0.932	0.98	1.12
Sample Method:	Grab	TDS (ppm):	596	624	715
		ORP (mV):	-104	-107	-118
		Tubidity (NTU):	12	149	488
		DO (mg/L):	24.58	18.49	11.62

Appearance

Slightly Grey / Turbid

Comments

envirospec ENGINEERING, PLLC
349 Northern Blvd
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800

Well Sampling Field Record

Well No:	PZ-20				
Date(s):	10/21/2014				
Weather		Temperature			
Overcast		High:	55		
		Low:	48		
Project:	Maestri Site	Project No.	E12-621		
Location:	904 State Fair Blvs, Syracuse, NY 13209				

Well Info

Well #:	PZ-20	Well Location:	Off-site		
Well Diameter (in):	2	Well Condition:	OK		
A. Total Well Depth (ft bgs):	20	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	flush	TOC Elevation (ft):	386		
C. Depth to Water TOC (ft):	4	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	15.59	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	2.54117	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	7.62351	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Bailer
Purge Start Time:	954	Approx Flow Rate:	0.2 Gal/Min
Purge Stop Time:	1029	Approx Volume Removed:	7
Did well dry out?	No		

Sampling

Date:	10/21/2014	pH:	7.79	7.76	7.57
Time:	1030	Temp (ºC):	15.58	15.67	15.24
Sample ID:	PZ-20	Conductivity (uS/cm):	0.804	0.762	0.751
Sample Method:	Grab	TDS (ppm):	279	488	481
		ORP (mV):	-41	-62	-46
		Tubidity (NTU):	7.6	27.2	23.1
		DO (mg/L):	3.57	12.55	11.2

Appearance

Clear

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	PZ-21	
		Date(s):	10/21/2014	
		Weather	Temperature	
		Overcast	High:	55
			Low:	48

Well Sampling Field Record

Project:	Maestri Site	Project No.	E12-621
Location:	904 State Fair Blvs, Syracuse, NY 13209		

Well Info

Well #:	PZ-21	Well Location:	Off-site		
Well Diameter (in):	2	Well Condition:	OK		
A. Total Well Depth (ft bgs):	19.5	Depth to Bedrock (ft):	NA		
B. TOC to Grade (ft):	flush	TOC Elevation (ft):	386.7		
C. Depth to Water TOC (ft):	3	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	16.2	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	2.6406	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	7.9218	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	10/21/2014	Pump/Method:	Bailer
Purge Start Time:	950	Approx Flow Rate:	0.32 Gal/Min
Purge Stop Time:	1015	Approx Volume Removed:	8
Did well dry out?			

Sampling

Date:	10/21/2014	pH:	7.41	7.36	7.57
Time:	1030	Temp (ºC):	13.36	13.18	15.24
Sample ID:	PZ-21	Conductivity (uS/cm):	0.625	0.638	0.751
Sample Method:	Grab	TDS (ppm):	400	408	481
		ORP (mV):	-56	-67	-46
		Tubidity (NTU):	497	672	23.1
		DO (mg/L):	3.76	4.15	11.2

Appearance

Cloudy/Brown

Comments

ATTACHMENT 2

Laboratory Analytical Results

New England ACCUTEST LABORATORIES

10/27/14

Technical Report for

Envirospec Engineering

E12 - 621 Maestri O&M

Accutest Job Number: MC34521

Sampling Date: 10/21/14

Report to:

Envirospec Engineering
349 Northern Blvd.
Albany, NY 12204
mroot@envirospeceng.com

ATTN: Matthew Root

Total number of pages in report: **21**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

Table of Contents

Sample Summary

Envirospec Engineering

E12 - 621 Maestri O&M

Job No: MC34521

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC34521-1	10/21/14	15:00	TE	10/22/14	AQ	Ground Water	MW-2A
MC34521-2	10/21/14	15:15	TE	10/22/14	AQ	Ground Water	RW-3
MC34521-3	10/21/14	11:21	TE	10/22/14	AQ	Ground Water	PZ-4
MC34521-4	10/21/14	16:00	TE	10/22/14	AQ	Ground Water	RW-5
MC34521-5	10/21/14	13:05	TE	10/22/14	AQ	Ground Water	RW-6
MC34521-6	10/21/14	16:00	TE	10/22/14	AQ	Ground Water	RW-7
MC34521-7	10/21/14	13:50	TE	10/22/14	AQ	Ground Water	RW-8
MC34521-8	10/21/14	10:30	TE	10/22/14	AQ	Ground Water	PZ-20
MC34521-9	10/21/14	10:30	TE	10/22/14	AQ	Ground Water	PZ-21
MC34521-10	10/21/14	12:10	TE	10/22/14	AQ	Ground Water	MW-9
MC34521-11	10/21/14	00:00	TE	10/22/14	AQ	Ground Water	DUP
MC34521-12	10/21/14	00:00	TE	10/22/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: MC34521
Account: Envirospec Engineering
Project: E12 - 621 Maestri O&M
Collected: 10/21/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC34521-1	**MW-2A**					
Xylenes (total)		825	1.0		ug/l	EPA 624
MC34521-2	**RW-3**					
No hits reported in this sample.						
MC34521-3	**PZ-4**					
Xylenes (total)		7.1	1.0		ug/l	EPA 624
MC34521-4	**RW-5**					
No hits reported in this sample.						
MC34521-5	**RW-6**					
Xylenes (total)		466	1.0		ug/l	EPA 624
MC34521-6	**RW-7**					
Xylenes (total) [a]		184	1.0		ug/l	EPA 624
MC34521-7	**RW-8**					
No hits reported in this sample.						
MC34521-8	**PZ-20**					
No hits reported in this sample.						
MC34521-9	**PZ-21**					
No hits reported in this sample.						
MC34521-10	**MW-9**					
Xylenes (total)		145	1.0		ug/l	EPA 624
MC34521-11	**DUP**					
Xylenes (total)		470	1.0		ug/l	EPA 624

Summary of Hits

Job Number: MC34521
Account: Envirospec Engineering
Project: E12 - 621 Maestri O&M
Collected: 10/21/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

MC34521-12 TRIP BLANK

No hits reported in this sample.

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-2A
Lab Sample ID: MC34521-1
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23269.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	825	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	91%		80-130%
2037-26-5	Toluene-D8 (SUR)	100%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	124%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-3
Lab Sample ID: MC34521-2
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23276.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	86%		80-130%
2037-26-5	Toluene-D8 (SUR)	95%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	125%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-4
Lab Sample ID: MC34521-3
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23277.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	7.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	88%		80-130%
2037-26-5	Toluene-D8 (SUR)	96%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	124%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-5
Lab Sample ID: MC34521-4
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23279.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%		80-130%
2037-26-5	Toluene-D8 (SUR)	93%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	125%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-6
Lab Sample ID: MC34521-5
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23270.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	466	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	90%		80-130%
2037-26-5	Toluene-D8 (SUR)	98%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	125%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7		
Lab Sample ID:	MC34521-6	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	EPA 624	**Percent Solids:**	n/a
Project:	E12 - 621 Maestri O&M		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U23268.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	184	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	106%		80-130%
2037-26-5	Toluene-D8 (SUR)	107%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	118%		75-125%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-8
Lab Sample ID: MC34521-7
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23271.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	89%		80-130%
2037-26-5	Toluene-D8 (SUR)	94%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	124%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-20		
Lab Sample ID:	MC34521-8	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	EPA 624	**Percent Solids:**	n/a
Project:	E12 - 621 Maestri O&M		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23272.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%		80-130%
2037-26-5	Toluene-D8 (SUR)	96%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	126% [a]		75-125%

(a) Outside control limits. Associated target analytes are non-detect.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-21
Lab Sample ID: MC34521-9
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23273.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	89%		80-130%
2037-26-5	Toluene-D8 (SUR)	94%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	126% [a]		75-125%

(a) Outside control limits. Associated target analytes are non-detect.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-9
Lab Sample ID: MC34521-10
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23278.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	145	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%		80-130%
2037-26-5	Toluene-D8 (SUR)	96%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	124%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP
Lab Sample ID: MC34521-11
Matrix: AQ - Ground Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23274.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	470	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	88%		80-130%
2037-26-5	Toluene-D8 (SUR)	99%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	122%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: MC34521-12
Matrix: AQ - Trip Blank Water
Method: EPA 624
Project: E12 - 621 Maestri O&M

Date Sampled: 10/21/14
Date Received: 10/22/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U23266.D	1	10/24/14	GK	n/a	n/a	MSU1008
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	83%		80-130%
2037-26-5	Toluene-D8 (SUR)	102%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	124%		75-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC34521

Client / Reporting Information

Company Name: Enviospec Engineering
Street Address: 349 Northern Blvd, Ste 3
City: Albany State: NY Zip: 12204
Project Contact: Matt Root E-mail: mroot@enviospeceng.com
Phone #: 518 453 2203 Fax #:
Sampler(s) Name(s): T. Edgington/C. Barbosa Phone #:

Project Information

Project Name: E12-621 Maestri O&M
Street:
City:
Project #:
Client PO#:
Project Manager: Matt Root

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Xylenes (EPA 624)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Xylenes (EPA 624)	LAB USE ONLY
-1	MW-2A		10/21/14	3:00	TE	GW	3	3									X	
-2	RW-3			3:15				3									X	
-3	PZ-4			11:21				3									X	
-4	RW-5			1600				3									X	
-5	RW-6			1:05				3									X	
-6	RW-7			4:00				3									X	
-7	RW-8			1:50				3									X	
-8	PZ-20			10:30				3									X	
-9	PZ-21			10:30				3									X	
-10	MW-9			12:10				3									X	3FI,
-11	DUP							3									X	
-12	Trip Blank.							2									X	

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

RL of <3 ug/L must be obtained.

ACCUTEST SYRACUSE-SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		10/21/14 1700		2		2 FED
3	Relinquished by Sampler: FED	Date Time: 10/22/14 10:00	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable

On Ice: ☑ Cooler Temp: 2.2°c

MC34521: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC34521 **Client:** ENVIROSPEC **Project:** E12-612 MEASTRI O&M

Date / Time Received: 10/22/2014 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.2/2.2);

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www/accutest.com

MC34521: Chain of Custody
Page 2 of 2

ATTACHMENT 3

Site Inspection Report

envirospec ENGINEERING, PLLC
349 Northern Blvd. Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800

Date: 10-21-2014
Time: 0900

Site Inspection Report

Weather	Temperature
Overcast	High 55°F Low 48°F

Client	Stauffer Management Company LLC	Project No.	E12-621
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	Travis Edgington

Please note any deficiencies, issues, or actions taken at the bottom of the page or on continuation pages

Site Security	*Circle one*			Comments/Action Required
1. Was gate closed and locked when arriving at site?	(Y)	N	NA	
2. Are there any holes or breaks in the fencing?	Y	(N)	NA	
3. Was the door to the treatment shed locked?	(Y)	N	NA	
4. Is the back gate closed and locked?	(Y)	N	NA	
5. Are there any signs of vandalism or unauthorized entry (odd tire tracks, damage to fence, strange debris [bottles, cans, etc])?	Y	(N)	NA	
5a. If so, explain below and notify SMC and Envirospec immediately				
Wells				
6. Are wells intact? *(except PZ-10 which has been damaged)*	(Y)	N	NA	
7. Are all wells covered (with lid or cap)? *(except wells noted below)*	(Y)	N	NA	
8. Are all wells locked? *(except wells noted below)*	(Y)	N	NA	
Site Maintenance				
9. Is there any garbage or debris? If so, please remove/discard.	(Y)	N	NA	
10. Is there visible dust?	Y	(N)	NA	
11. Does the grass need to be mowed?	Y	(N)	NA	
12. Do any areas need to be weeded or shrub cleared?	Y	(N)	NA	Perimeter of property (fence)
13. Are there any bald spots in grassy areas?	Y	(N)	NA	
14. Are the access roads clear?	(Y)	N	NA	
15. Do any areas (site roads or access to wells) need to be plowed?	Y	(N)	NA	
16. Are there any sink holes throughout the site?	Y	(N)	NA	
17. Any odors onsite?	Y	(N)	NA	
18. Are site signs still up and visible?	(Y)	N	NA	
Erosion Control				
19. Is silt fence still intact and upright?	Y	N	(NA)	
19a. If areas need repair or erosion control installed, indicate below and contact Abscope for repairs.				
20. Is there any evidence of runoff? (i.e. water flow paths on ground)	Y	(N)	NA	
21. Is there any standing, ponded, or pools of water?	Y	(N)	NA	
22. Are there any signs of runoff at the northeast corner? *(stone area)*	Y	(N)	NA	
23. Is there currently any surface water runoff?	Y	(N)	NA	
23a. If so, describe where, approximate flow, and appearance of water below.				
Treatment System				
24. Are the breakers for the pumps still in the off position?	(Y)	N	NA	
25. Does effluent totalizer on the wall for still read 2846902?	Y	(N)	NA	2851315
25a. If not, contact Envirospec or SMC immediately and check that effluent valve is closed. *Still pumping from RW 5, 6 and 8.*				
26. Are all critical valves in the closed position?	(Y)	N	NA	
27. Are there any system status alarms on the computer?	Y	N	(NA)	
27a. If so, describe below how they have been handled. *(this does not include well level alarms)*				
28. Are all flow values on computer "zero"?	Y	N	(NA)	
("Flow to sewer," "Tot flow to sewer," "tot daily flow," and "TGAL" for each well should each be "zero")				
28. Check level of sump. Does sump need to be pumped out?	Y	(N)	NA	
29. List water level for each recovery well as shown on computer: (total depth of well is shown in brackets)				
RW-7 [27.5']	(N/A)	RW-5 [24.5']		(N/A)
RW-2 (not online)	(N/A)	RW-8 [24.5']		(N/A)
RW-3 [25.3']	(N/A)	RW-6 [21.8']		(N/A)
30. Are any recovery wells at close to overtopping? (ref total depth above)	Y	N	(NA)	
Upon leaving the site, check the following;				
31. Is the treatment shed locked?	(Y)	N	NA	
32. Were the gates closed and locked after leaving site?	(Y)	N	NA	

Note: Some wells cannot be locked including PZ-10, RW-3, RW-4, and RW-5.

Signature of Inspector:

Travis Edgington

Include General Site Observations and Follow-Up Actions on the Reverse

envirospec ENGINEERING, PLLC	349 Northern Blvd. Suite 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Date:	10-21-2014
		Time:	0945
Site Inspection Report ***Continuation Page(s)***		Page 2 of 2	
Client	Stauffer Management Company LLC	Project No.	E12-621
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	Travis Edgington

General Site Observations:

1) Abscope mowed the Site in September.

Follow-up: *Indicate actions required, person(s) contacted, and dates for completion*

No follow-up action required.

Signature of Inspector: Travis Edgington