### **APPENDIX D**

### FIELD REPORTS GROUNDWATER SAMPLING EVENTS/RESULTS

OCTOBER 2008 APRIL 2009

### FIELD REPORT

### SAMPLING OF GROUNDWATER MONITORING WELL BUFFALO BUSINESS PARK BUFFALO, NEW YORK

### **OCTOBER 2008**

### PREPARED FOR:

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LTP SERVICES, INC. P.O. BOX 117 SOUTH WALES, NY 14139 ATTENTION: MR. PETER TARNAWSKYJ

PREPARED BY:

ENVIRONMENTAL SAMPLING & SERVICES, INC. 7183 BALLA DRIVE NORTH TONAWANDA, NEW YORK 14120

### 1.0 INTRODUCTION

This report describes the sampling of one (1) groundwater monitoring well at the Buffalo Business Park, located in Buffalo, New York. Sampling was performed on October 13, 2008 by Environmental Sampling & Services, Inc. (ES&S) personnel. Samples were collected for volatiles only. A round of water levels were also measured and included from all of the site wells on October 13, 2008 and October 14, 2008.

### 2.0 METHODOLOGIES

### 2.1 Water Level Measurements

Static water level from the one (1) groundwater well was measured from the top of the well casing/riser, with a weighted electronic water level indicator (QED). Well bottoms were sounded with a weighted tape measure. All measurements were recorded to the nearest hundredth of a foot (0.01 feet). The length of the measuring device, which contacted the water, was cleaned between wells with liquinox, deionized water rinse and paper towel wipe. The data for the well sampled is presented on the Field Observation Forms.

### 2.2 Well Evacuation

The well was evacuated using a continuous running dedicated pump.

### 3.0 SAMPLING

### 3.1 Monitoring Wells

The well was sampled using a dedicated PVC bailer. When using the dedicated PVC bailer for sampling, the bailer was slowly lowered into the water volume, to minimize agitation and devolatization. Sample containers were then filled directly from the bailer.

An additional sample was collected from this well in order to facilitate the measurement of field parameters.

### 4.0 FIELD MEASUREMENT

On site field measurements include pH, specific conductivity, temperature, eH, and turbidity. This data is presented on the Field Observation Forms.

All instruments, which contacted groundwater and surface water, were cleaned after each measurement by rinsing with deionized water and wiping dry with paper towels.

### 5.0 EQUIPMENT CALIBRATION

Prior to mobilization, all field equipment and instrumentation were checked for condition. In field calibrations were done before field measurements were facilitated. A calibration check was performed at the start of the day and a recalibration of the field instruments was performed if necessary.

- pH / eH meters were two-point calibrated with 7.00 S.U. and 10.00
  S.U. buffer solutions.
- Conductivity meters were three-point calibrated with 180, 1000 and 18000 umhos/cm buffer solutions.
- Turbidity meters were two-point calibrated with 1.0 NTU and 5.0 NTU standards.

### 6.0 SAMPLE CONTAINER PREPARATION

All containers used in the collection of samples for this project were provided new and clean from Test America Labs, Inc. These bottles were stored in a clean environment at ES&S prior to their use.

### 7.0 SAMPLE CONTROL AND CHAIN OF CUSTODY

A chain of custody manifest was initiated at the time of sample collection and accompanied the samples through delivery to Test America Labs in Amherst, New York.

# BUFFALO BUS. PARK WATER LEVELS OCTOBER 13, 2008

WELL	RISER	DEPTH TO WATER	WATER LEVEL ELEVATION
MW-1 BR	624.44	7.45	616.99
MW-2 BR	625.04	6.59	618.45
MW-3 BR	623.99	9.20	614.79
MW-4 BR	622.79	13.21	609.58
MW-5 BR	622.42	7.68	614.74
MW-6 BR	623.57	10.30	613.27
MW-7 BR	623.34	7.91	615.43
MW-8 BR	625.87	7.82	618.0 <u>5</u>

\* WATER LEVELS TAKEN WITH PUMP TURNED ON \*

# BUFFALO BUS. PARK WATER LEVELS OCTOBER 14, 2008

WELL NUMBER	RISER ELEVATION	DEPTH TO WATER	WATER LEVEL ELEVATION
MW-1 BR	624.44	7.44	617.00
MW-2 BR	625.04	6.54	618.50
MW-3 BR	623.99	6.64	617.35
MW-4 BR	622.79	4.40	618.39
MW-5 BR	622.42	5.30	617.12
MW-6 BR	623.57	10.24	613.33
MW-7 BR	623.34	6.07	617.27
MW-8 BR	625.87	7.45	618.42

\* WATER LEVELS TAKEN WITH PUMP TURNED OFF \*

.

SITE N	AME: BL	JFFALO BUSIN	ESS PARK				POINT ID:	MW-4	BR
LOCATI	ON:	BUFFALO, NE	W YORK	F	IELD R	EPRES	ENTATIVE:	ES&S-R.C	H ODO
SAMPL	E MATRIX:	GROUN	DWATER	L	AB SAN	/IPLE /	PROJECT #: _	NA	
	ATION INFORM	(FEET)	NA	(	ОЕРТН Т	го во	TTOM (FEET)_	28.	70
			.):NAELEVATION, G/W (MSL):NA						
DATE 10 - 13 - 08 TIME: START/FINISH/.									
( ) PV ( ) S.S	METHOD OF EVACUATION:    EVACUATION EQUIPMENT DEDICATED:      ( ) PVC BAILER ( ) WELL WIZARD ( ) OTHER-12V PUMP ( ) YES ( X ) NO      ( ) S.S. BAILER ( X ) GRUNDFOS PUMP      WELL RISER DIAMETER (IN.):( ) 2( X ) 3 ( ) 4 ( ) € ( ) OTHER								
ONE (1	I) RISER VOLU	UME (GAL)	NA		WAS WE	ELL PI	JRGED TO DE	RYNESS ( )	YES (X)NC
TOTAL	VOLUME EVAC	CUATED (GAL)	NA		WATER	LEVEL	AFTER PUR	GE (FT.)	NA
TURBI	DITY OF PURC	GINGS : START	N	A	F	INISH	N	Α	
EVACU	ATION STABIL	LIZATION DATA							
	PURGE RATE (gpm/htz)	CUMULATIVE VOLUME		pH (Std.Units			IC CONDUCT. mhos/cm)	TURBIDITY (NTU)	OTHER [ eh (mV) ]
SAMPL	ING INFORMA	TION							
DATE /	TIME1	0 - 13 <u> - 08</u> / 1	0:15	WAT	ER LEVE	EL PR	IOR TO SAMLII	NG (FT.)	8.99
METHO	DD OF SAMPLI	<u>NG:</u>					SAMPLING EC	QUIPMENT DE	DICATED:
· ·		() WELL WIZ		OTHER			(X) YES		
() S.	S. BAILER	() GRUNDFO	S PUMP				( ) NO		
SAMPL	ING FIELD ME	EASUREMENT	DATA						
	pH		. CONDUCT.	TEMP.	TURBI		еH	DISS. OXY.	OTHER
TIME			mhos/cm)	(C)	(NTU		(mV)	(PPM)	( )
10:18			1012	18.1	5.3	6	-51.6	NA	NA
	RAL INFORMA HER CONDITIC	<u>T<b>ION</b></u> DNS AT TIME (	OF SAMPLING	SUNNY,	65 F				
SAMPL	E CHARACTE	ERISTICS:	CLEAR						
COMM	ENTS:	CONTINUOUS		/ELL					

SAMPLED FOR VOA ONLY

### SAMPLE COLLECTION NUMBER

1

# FIELD REPORT

### SAMPLING OF GROUNDWATER MONITORING WELLS BUFFALO BUSINESS PARK BUFFALO, NEW YORK

### **APRIL 2009**

### PREPARED FOR:

LTP SERVICES, INC. P.O. BOX 117 SOUTH WALES, NY 14139 ATTENTION: MR. PETER TARNAWSKYJ

PREPARED BY:

ENVIRONMENTAL SAMPLING & SERVICES, INC. 7183 BALLA DRIVE NORTH TONAWANDA, NEW YORK 14120

### 1.0 INTRODUCTION

This report describes the sampling of eight (8) groundwater monitoring wells at the Buffalo Business Park, located in Buffalo, New York. Sampling was performed on April 13, 2009 by Environmental Sampling & Services, Inc. (ES&S) personnel. Samples were collected for volatiles only. A round of water levels were also measured and included from all of the site wells on April 13, 2009.

### 2.0 <u>METHODOLOGIES</u>

### 2.1 <u>Water Level Measurements</u>

Static water levels of all eight (8) groundwater wells were measured from the top of the well casing/riser, with a weighted electronic water level indicator (QED). Well bottoms were sounded with a weighted tape measure. All measurements were recorded to the nearest hundredth of a foot (0.01 feet). The length of the measuring device, which contacted the water, was cleaned between wells with liquinox, deionized water rinse and paper towel wipe. The data for the wells sampled is presented on the Field Observation Forms.

### 2.2 Well Evacuation

Prior to evacuation, the volume of standing water was calculated by subtracting the depth to groundwater from the bottom of the well depth and multiplying that number by a constant for the corresponding size well. V=H (.16) - 2 inch well, V=H (.36) - 3 inch well, V=H (.65) - 4 inch well, where H is the height of the water column and .16, .36, and .65 are volumetric constants.

Prior to sampling, three (3) times the standing water volume was purged from each well which exhibited a moderate to high recharge. Wells, which exhibited a low recharge rate, were evacuated to dryness.

The wells were evacuated using dedicated pvc bailers, non-dedicated or dedicated pumps. Data pertaining to each evacuation is presented on the Field Observation Forms.

### 3.0 SAMPLING

### 3.1 Monitoring Wells

After well purging, a second depth to water level measurement was taken at each well to insure there was sufficient recharge. Wells were sampled using the dedicated PVC bailers. When using the dedicated PVC bailers for sampling, the bailer was slowly lowered into the water volume, to minimize agitation and devolatization. Sample containers were then filled directly from the bailer.

An additional sample was collected from each well in order to facilitate the measurement of field parameters.

### 4.0 FIELD MEASUREMENT

On site field measurements include pH, specific conductivity, temperature, eH, and turbidity. This data is presented on the Field Observation Forms.

All instruments, which contacted groundwater and surface water, were cleaned after each measurement by rinsing with deionized water and wiping dry with paper towels.

### 5.0 EQUIPMENT CALIBRATION

Prior to mobilization, all field equipment and instrumentation were checked for condition. In field calibrations were done before field measurements were facilitated. A calibration check was performed at the start of the day and a recalibration of the field instruments was performed if necessary.

- pH / eH meters were two-point calibrated with 7.00 S.U. and 10.00 S.U. buffer solutions.
- Conductivity meters were three-point calibrated with 180, 1000 and 18000 umhos/cm buffer solutions.
- Turbidity meters were two-point calibrated with 1.0 NTU and 5.0 NTU standards.

### 6.0 SAMPLE CONTAINER PREPARATION

All containers used in the collection of samples for this project were provided new and clean from Test America Labs, Inc. These bottles were stored in a clean environment at ES&S prior to their use.

### 7.0 QUALITY ASSURANCE / QUALITY CONTROL

### 7.1 Field Duplicate

A field duplicate was collected at a frequency of one (1) per sampling event. The field duplicate consisted of a set of appropriate parameters and was obtained at the same time a well.

### 7.2 Trip Blank

Trip blanks were collected at a frequency of one (1) per sampling event. The trip blank was analyzed for volatiles only. The sample containers were filled at Test America Labs with deionized water and transported to the site, stored with field-collected samples, and submitted to Test America Labs for analysis.

### 7.3 Matrix Spike / Matrix Spike Duplicate

A matrix spike / matrix spike duplicate was collected at a frequency of one (1) per sampling event. It consisted of a set of all parameters for each and was obtained at the same time a well was being sampled.

### 8.0 SAMPLE CONTROL AND CHAIN OF CUSTODY

Sample containers were labeled with the following information:

- Project Number
- Sample Location
- Initials of Individual Collecting Samples
- Date / Time

A chain of custody manifest was initiated at the time of sample collection and accompanied the samples through delivery to Test America Labs in Amherst, New York.

# BUFFALO BUS. PARK WATER LEVELS

WELL	RISER	DEPTH	WATER LEVEL	
NUMBER	NUMBER ELEVATION		ELEVATION	
MW-1 BR	624.44	5.71	618.73	
MW-2 BR	625.04	6.62	618.42	
MW-3 BR	623.99	8.06	615.93	
MW-4 BR	622.79	15.68	607.11	
MW-5 BR	622.42	7.44	614.98	
MW-6 BR	623.57	10.14	613.43	
MW-7 BR	623.34	7.42	615.92	
MW-8 BR	625.87	8.19	617.68	
OS-1	621.43	8.56	612.87	
OS-2	621.22	10.48	610.74	
OS-3	624.10	8.86	615.24	

\* WATER LEVELS TAKEN WITH PUMP TURNED ON \*

MW-4 BR TOTALIZER - 120300 GALS. @ 11:20

ш	
m	
	•

**BUFFALO BUSINESS PARK** 

# FIELD INFORMATION

PURGE DATE
5.71 28.82
6.62 28.98
8.06 62.60
15.68 27.75
7.44 26.70
10.14 27.81
7.42 27.48
8.19 31.77

\* FROM THE TOP OF RISER

### 

FIELD INFORMATION LOG									
SITE NAME: BUFFALO BUSINESS PARK	POINT ID:	TRIP BLANK							
LOCATION: BUFFALO, NEW YORK	FIELD REPRESENTATIVE: ES&S-R.CHIODO								
SAMPLE MATRIX: DEIONIZED WATER LAB SAMPLE / PROJECT #: NA									
EVACUATION INFORMATION INITIAL WATER LEVEL (FEET)	DEPTH TO BOTTOM (FEET)								
ELEVATION, MEAS.PT.(MSL): ELEVATION, G/W (MSL):									
DATE TIME: START/FINISH /									
METHOD OF EVACUATION:EVACUATION EQUIPMENT DEDICATED:( ) PVC BAILER( ) S.S. BAILER( ) GRUNDFOS PUMP( ) YES( ) NO( ) S.S. BAILER( ) WELL WIZARD( ) OTHER( ) YES( ) NO									
WELL RISER DIAMETER (IN.):( ) 2 ( ) 3 ( ) 4 ( ) 6 ( ) OTHER									
ONE (1) RISER VOLUME (GAL)	WAS WELL PURGED TO DE	RYNESS ( )YES ( )NO							
TOTAL VOLUME EVACUATED (GAL)	WATER LEVEL AFTER PUR	GE (PT)							
TURBIDITY OF PURGINGS : START	FINISH								
EVACUATION STABILIZATION DATA									
PURGE RATE      CUMULATIVE      TEMP.        TIME      (gpm/htz)      VOLUME      (C)	pH SPEC. CONDUCTANCE (Std.Units) (umhos/cm)	TURBIDITY OTHER (NTU) [ eh (mV) ]							
SAMPLING INFORMATION									
DATE / TIME 4-13-09 / 11:20	WATER LEVEL PRIOR TO SAMLIN	IG (FT.) NA							
METHOD OF SAMPLING: ( ) PVC BAILER ( ) S.S. BAILER ( ) GRU ( ) S.S. BAILER ( ) WELL WIZARD ( X ) OTH	JNDFOS PUMP ( ) YES	UIPMENT DEDICATED:							
SAMPLING FIELD MEASUREMENT DATA									

	pН	SPEC. CONDUCT.	TEMP.	TURBIDITY	еH	DISS. OXY.	OTHER
TIME	(Std.Units)	(umhos/cm)	(C)	(NTU)	(mV)	(PPM)	( )
NA	NA	NA	NA	NA	NA	NA	NA

### GENERAL INFORMATION

GENERAL INFORMATION			
WEATHER CONDITIONS AT 1	IME OF SAMPLING	SUNNY, 45°F	
SAMPLE CHARACTERISTICS:		/'	
	OLEANY		

COMMENTS: \_\_\_\_\_ TCL VOLATILES ONLY

SAMPLE COLLECTION NUMBER

SITE NAME:	BUFFAL	O BUSI	NESS PARK				POINT ID:	VCA-N	IW4-BR
LOCATION:	BUFF	ALO, NE	W YORK		FIELD	REPR	ES&S-RCHIODO		
SAMPLE MATE	RIX:	GROU	NDWATER		LAB SAMPLE / PROJECT #:				
EVACUATION		<u>I</u>	15.68		DEDT		0.77.01		
							BOTTOM (FEET)		
ELEVATION, M			622.79		ELEVA	TION, (	G/W (MSL)	60	7.11
DATE	9-13-09				TIME	START/	FINISH	9:16	NA
METHOD OF EVACUATION:EVACUATION EQUIPMENT DEDICATED:( ) PVC BAILER( ) WELL WIZARD( ) OTHER-12V PUMP( ) YES( X ) NO( ) S.S. BAILER( X ) GRUNDFOS PUMP( ) OTHER-12V PUMP( ) YES( X ) NO									
WELL RISER DIAMETER (IN.):( ) 2 ( X ) 3 ( ) 4 ( ) 6 ( ) OTHER									
ONE (1) RISEF	VOLUME (G	AL)	NA		WAS	NELL F	PURGED TO D	RYNESS ( )	YES (X)NO
TOTAL VOLUM	TOTAL VOLUME EVACUATED (GAL) NA WATER LEVEL AFTER PURGE (FT.)								
TURBIDITY OF PURGINGS START NA FINISH NA									
EVACUATION S	STABILIZATIO	N DATA							
PURGE	RATE CUMU	LATIVE	TEMP	pН		SPECI	FIC CONDUCT.	TURBIDITY	OTHER
TIME (gpm/	htz) VOL	UME	(C)	(Std.Unit	s)	(1	umhos/cm)	(NTU)	[eh (mV)]
SAMPLING INF	ORMATION								
	1-13.09	/ 11:	24 +1	1:26 WAT	ER LEV	/EL PR	NOR TO SAMLIN	IG (FT.)	5.68
METHOD OF SA	MPLING:						SAMPLING EC	UIPMENT DE	DICATED
(X) PVC BAIL	ER ()WE	LL WIZA	ARD ()	OTHER			(X) YES		BIOMILE
( ) S.S. BAILER ( ) GRUNDFOS PUMP							( ) NO		
SAMPLING FIELD MEASUREMENT DATA									
	pН		CONDUCT	TEMP	TURE	BIDITY	еН	DISS, OXY,	OTHER
	td.Units)		nhos/cm)	(C) <b>9,9</b>			(mV)	(PPM)	( )
		17	78		57.		-10.0	NA	NA
GENERAL INFO		TIME O	F SAMPLING	SUNNY	. 45	51			
SAMPLE CHAF	ACTERISTICS	c CL	EAR - TA						
COMMENTS:	CONTI	NUOUS	PUMPING V	VELL	DU	P TA	AKEN (# 3	3 211:2	6)
-	TCL VC	LATILE	SONLY						-
		SAMDU			2	- 2			

SAMPLE COLLECTION NUMBER 🛛 🗹 🛧 🌫

ALA DIT

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ALI AL

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PO. 81-1

9.13.09 11:24 +11:26 15.68

7.07 1478 9.9 57.20 -10.0 Sec.1

3° 24. years Summer 95°

MITCHAT- SAZU MAN

THE THERE (#3 STAR)

SITE NAME: BUFFA	LO BUSINESS PARK			VCA-N	/W3-BR			
LOCATION: BUF	FALO, NEW YORK		FIELD RI	EPRESENTATIVE:	E S & S - R	CHIODO		
SAMPLE MATRIX:	GROUNDWATER		LAB SAMPLE / PROJECT #:					
EVACUATION INFORMATIO			DEPTH Т	O BOTTOM (FEET)	)28	3.60		
ELEVATION, MEAS.PT.(MSL)	623.99		ELEVATIO	DN, G/W (MSL):	61	5.93		
DATE 4-13-0	59		TIME: ST	ART/FINISH	9:01			
METHOD OF EVACUATION: ( ) PVC BAILER ( ) W ( ) S.S. BAILER ( ) G	ELL WIZARD (* RUNDFOS PUMP	) OTHER-12V F	PUMP	EVACUATION () YES	EQUIPMENT (X)	DEDICATED NO		
WELL RISER DIAMETER (I	N.):( ) 2 ( 184~) 3 ( )	() () (	6 () 01	HER				
ONE (1) RISER VOLUME (GAL) 13.35 WAS WELL PURGED TO DRYNESS ( ) YES ( X ) NO								
TOTAL VOLUME EVACUATED (GAL) 41.00 WATER LEVEL AFTER PURGE (FT.) 19.32								
TURBIDITY OF PURGINGS : START TURBID - BLACK FINISH TOREBOLL BURAK CLEAR - BLACK								
EVACUATION STABILIZATIO	N DATA					TINT		
PURGE RATE CUMU	ILATIVE TEMP	pН	SF	ECIFIC CONDUCT	TURBIDITY	OTHER		
TIME (gpm/htz) VOI	UME (C)	(Std.Unit	s)	(umhos/cm)	(NTU)	[ eh (mV) ]		
SAMPLING INFORMATION	111110							
DATE / TIME 4-13-09	/ 11.40	WAT	ER LEVEL	PRIOR TO SAMLIN	NG (FT.)	.21		
METHOD OF SAMPLING: (X) PVC BAILER () WE () S.S. BAILER () GF		OTHER		SAMPLING EC (X) YES () NO	QUIPMENT DE	DICATED:		
SAMPLING FIELD MEASURE				( ) 110				
pH TIME (Std.Units)	SPEC. CONDUCT. (umhos/cm)	TEMP. (C)	TURBIDI (NTU)	TY eH (mV)	DISS. OXY. (PPM)	OTHER		
11:42 7.02	1644	9.2	6.45	-7.6	NA	NA		
GENERAL INFORMATION WEATHER CONDITIONS AT	TIME OF SAMPLING	SUNN	y,45°	F				
SAMPLE CHARACTERISTIC	S CLEAR - B		1					
COMMENTS:TCL VO	OLATILES ONLY							
MS	MSD TAKEN							
	SAMPLE COLLECTIO	ON NUMBER	4					

208

# 4-13-09

( × ) ~~

13.35

THRBID-BLACK



### 11:40 4-13-69

1.2 6.45 -76 1244

Samer 15°

CLEAR - BUARE T, NT

# MS MSD TAKEN

1

11.21

615.93

9:01 9:32

REBERT & SHALL CLEW - BUACH

SITE NAME: BUFFALO BUSINESS PARK			POINT ID:	VCA-MW5-BR				
LOCATION: BUFFALO, NEW YORK		FIELD REPRESENTATIVE: ES&S-R.CHIODO						
SAMPLE MATRIX: GROUNDWATER		LAB SAMPL	E / PROJECT #:	NA				
EVACUATION INFORMATION INITIAL WATER LEVEL (FEET) 7,44		DEPTH ТО	BOTTOM (FEET)	26	.70			
ELEVATION, MEAS.PT.(MSL): 622.42		ELEVATION	G/W (MSL):	61	4.98			
DATE 4-13-09		TIME STAR		10:40				
METHOD OF EVACUATION: ( ) PVC BAILER ( ) WELL WIZARD ( ) ( ( ) S.S. BAILER (✗) GRUNDFOS PUMP	() PVC BAILER () WELL WIZARD () OTHER-12V PUMP () YES (X) NO							
WELL RISER DIAMETER (IN.):(X) 2() 3 () 4 () 6 () OTHER								
ONE (1) RISER VOLUME (GAL) 3.08 WAS WELL PURGED TO DRYNESS ( )YES ( ×) NO								
TOTAL VOLUME EVACUATED (GAL) 10.00 WATER LEVEL AFTER PURGE (FT.) 17.32								
TURBIDITY OF PURGINGS : START CLEAN	R	FINIS	H CLEAR	<u>.</u>				
EVACUATION STABILIZATION DATA								
PURGE RATE CUMULATIVE TEMP	pН	SPEC	CIFIC CONDUCT.	TURBIDITY	OTHER			
TIME (gpm/htz) VOLUME (C)	(Std Units	)	(umhos/cm)	(NTU)	[ eh (mV) ]			
SAMPLING INFORMATION								
DATE / TIME 4-13-09 / 11:52	WATE	ER LEVEL F	RIOR TO SAMLIN	NG (FT.)	8.65			
METHOD OF SAMPLING:			SAMPLING EC	UIPMENT DE				
(X) PVC BAILER () WELL WIZARD () (	OTHER		(X) YES					
( ) S.S. BAILER ( ) GRUNDFOS PUMP			( ) NO					
SAMPLING FIELD MEASUREMENT DATA								
TIME (Std.Units) SPEC. CONDUCT. (umhos/cm)	TEMP (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY (PPM)	OTHER ( )			
11:54 6.93 1441	10.3	0.49	- 3. 3	NA	NA			
GENERAL INFORMATION WEATHER CONDITIONS AT TIME OF SAMPLING	SUNA	14.45°F						
SAMPLE CHARACTERISTICS: CLEAR		/						
COMMENTS: TCL VOLATILES ONLY								



SITE NAME: BUFFALO BUSINESS PARK	POINT ID: VCA-MW8	VCA-MW8-BR					
LOCATION: BUFFALO, NEW YORK	FIELD REPRESENTATIVE:E S & S - R.CHIC	ES&S-R.CHIODO					
SAMPLE MATRIX: GROUNDWATER	LAB SAMPLE / PROJECT #: NA	NA					
INITIAL WATER LEVEL (FEET)	DEPTH TO BOTTOM (FEET) 31.77	2					
ELEVATION, MEAS.PT.(MSL):625.87	ELEVATION, G/W (MSL): 617.6	8					
DATE 4-13-09	TIME: START/FINISH 9:50 / 10						
METHOD OF EVACUATION:    EVACUATION EQUIPMENT DEDICATED:      ( ) PVC BAILER    ( ) WELL WIZARD    ( ) OTHER-12V PUMP    EVACUATION EQUIPMENT DEDICATED:      ( ) S.S. BAILER    ( ) GRUNDFOS PUMP    ( ) OTHER-12V PUMP    ( ) YES    ( X ) NO							
WELL RISER DIAMETER (IN.):(X) 2( ) 3 ( ) 4 ( ) 4	6 () OTHER						
ONE (1) RISER VOLUME (GAL) 3.77	WAS WELL PURGED TO DRYNESS ( ) YES	( 🗙 ) NO					
TOTAL VOLUME EVACUATED (GAL)	WATER LEVEL AFTER PURGE (FT.)	65					
TURBIDITY OF PURGINGS START CLEAR	FINISH SI. TURBIO - GRAY						
EVACUATION STABILIZATION DATA							
PURGE RATE CUMULATIVE TEMP. pH	SPECIFIC CONDUCT TURBIDITY (	OTHER					
TIME (gpm/htz) VOLUME (C) (Std.Unit	ts) (umhos/cm) (NTU) [ e	eh (mV) ]					
SAMPLING INFORMATION							
11.12	FER LEVEL PRIOR TO SAMLING (FT.)	20					
METHOD OF SAMPLING:							
(X) PVC BAILER () WELL WIZARD () OTHER	SAMPLING EQUIPMENT DEDICA	IED.					
( ) S.S. BAILER ( ) GRUNDFOS PUMP	( ) NO						
SAMPLING FIELD MEASUREMENT DATA							
pHSPEC. CONDUCT.TEMPTIME(Std.Units)(umhos/cm)(C)		THER					
12:09 7.45 1506 10.3	(NTU) (mV) (PPM) ( 1.51 -27.9 NA	) NA					
GENERAL INFORMATION WEATHER CONDITIONS AT TIME OF SAMPLING SUNNY, 45°F							
SAMPLE CHARACTERISTICS: CLEAR	/						
COMMENTS: TCL VOLATILES ONLY							



E SUP IN DESIGN ON THE

31.77 617.68 9:50 10:04

28.65

# SI. Takono - GRAJ

# 8.20

51 -27.3

8.1%

4-13-09

3.77

00.81

CLEAR

Store Participal
 Televal

### 4-13-09 12:07

raan oo shararaan ahaan ahaan ahaan Tarii ahaa dharaan ahaa ahaa ahaa ahaa ahaa

# 1.45 ISOL 10.3 1.51 -27.7

CLERE.

a An Chair ann An Chair an Anais

FIELD	INFORMATION	LOG
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SITE NAME: BU	FFALO BUSI	NESS PARK			POINT ID:	VCA-N	IW7-BR	
LOCATION:	BUFFALO, NE	FALO, NEW YORK		FIELD REPRESENTATIVE:		ES&S-R.CHIODO		
SAMPLE MATRIX:	MPLE MATRIX: GROUNDWATER			LAB SAMPLE / PROJECT #:		NA		
EVACUATION INFORM	ATION (FEET)	7.42		DEPTH TO BOTTOM (FEET		27.48		
ELEVATION, MEAS.PT.(	(MSL):	623.34		ELEVATION, G/W (MSL)			615.92	
DATE <u>4-1</u>	3-09			TIME: STAF	RT/FINISH	10:15	10:27	
() PVC BAILER (	METHOD OF EVACUATION:    EVACUATION EQUIPMENT DEDICATED:      ( ) PVC BAILER    ( ) WELL WIZARD    ( ) OTHER-12V PUMP    ( ) YES    ( X ) NO      ( ) S.S. BAILER    ( X ) RO							
WELL RISER DIAMETE	ER (IN.):(X) 2	()3 (	)4 ()6	6 () OTH	IER			
ONE (1) RISER VOLUN	ME (GAL)	3.21		WAS WEL	PURGED TO D	RYNESS ( )	YES () NO	
TOTAL VOLUME EVACU	JATED (GAL)	10.00		WATER LE	VEL AFTER PUR	(GE (FT.) 2	5.90	
TURBIDITY OF PURGIN	NGS START	CLEAR -	-GRAYT	T FINI	SH CLEAR -	GRAY TING		
EVACUATION STABILIZ	ZATION DATA							
PURGE RATE C	CUMULATIVE	TEMP.	pН	SPE	CIFIC CONDUCT.	TURBIDITY	OTHER	
TIME (gpm/htz)	VOLUME	(C)	(Std.Unit	(umho		(NTU)	[ eh (mV) ]	
SAMPLING INFORMATIO	ON					1		
DATE / TIME 4-13-	09 / 12:	21	WAT	ER LEVEL	PRIOR TO SAMLIN	NG (FT.)	1.46	
METHOD OF SAMPLING	) WELL WIZA		OTHER		<u>SAMPLING EC</u> (X) YES	QUIPMENT DE	DICATED	
( ) S.S. BAILER (					() NO			
pH			TEMP	TURBIDIT	Y eH	DISS. OXY	OTHER	
TIME (Std.Units)	(um	nhos/cm)	(C)	(NTU)	(mV)	(PPM)	( )	
12:23 7.19		10	9.5	16.60	-13.4	NA	NA	
GENERAL INFORMATIO	<u>N</u> S AT TIME O	F SAMPLING	SUNN	1,45°F				
SAMPLE CHARACTERI	STICS CL	EAR - GRI	AY TINT					
COMMENTS:TO			'					
	SAMPLE	ECOLLECTIO	ON NUMBER	7				

SITE NAME:	BUFFAL	O BUSINESS	PARK		POINT ID:		VCA-MW2-BR		
	BUF	ALO, NEW YO	RK		FIELD REPRESENTATIVE:		E S & S - R.CHIODO		
SAMPLE MATR	X:	GROUNDWA	TER		LAB SAMPLE / PROJECT #: _			NA	
EVACUATION IN INITIAL WATER			,2		DEPTH	I TO B	OTTOM (FEET)	28.98	
ELEVATION, ME	AS.PT.(MSL)	625.	04				G/W (MSL)		
DATE	1-13-09						FINISH		
METHOD OF EVACUATION:    EVACUATION EQUIPMENT DEDICATED:      ( ) PVC BAILER    ( ) WELL WIZARD    ♦ ) OTHER-12V PUMP    ( ) YES    ( X ) NO      ( ) S.S. BAILER    ( ) GRUNDFOS PUMP    ( ) YES    ( X ) NO									
WELL RISER D	AMETER (IN	l.):( ) 2( 👫 )	3 (X)	4 ( ) 6	6 ()	OTHER	۲		
ONE (1) RISER	VOLUME (G	AL) 14	.53		WAS V	VELL F	PURGED TO D	RYNESS ( X	)YES ( )NO
TOTAL VOLUME	EVACUATED	(GAL)	00 To	DRY	WATER	R LEVE	L AFTER PUR	GE (FT.)	DRY
TURBIDITY OF	PURGINGS	START T	RBID -	BLACK		FINISH	TURBID	- BLACK	
EVACUATION S	ABILIZATIO	N DATA							
PURGE F	ATE CUMU	LATIVE TE	MP	pН	pH SPECIFIC CONDUCT.			TURBIDITY	OTHER
TIME (gpm/h	z) VOL	UME (	C)	(Std.Unit	td.Units) (umhos/cm)		(NTU)	[eh (mV)]	
SAMPLING INFO									
DATE / TIME 9	-13-09	1 12:37		WAT	ER LEV	EL PR	IOR TO SAMLIN	NG (FT.)	17.94
METHOD OF SAM							SAMPLING EC	UIPMENT DE	DICATED
(X) PVC BAILER				THER			(X) YES		
SAMPLING FIELD MEASUREMENT DATA									
	рН	SPEC. CON	DUCT.	TEMP	TURB	IDITY	еН	DISS. OXY.	OTHER
	Units)	(umhos/cr		(C)	(NTU)		(mV)	(PPM)	( )
	76	1931		12,2	20.	20	-42.6	NA	NA
GENERAL INFORMATION WEATHER CONDITIONS AT TIME OF SAMPLING SUNNY, 45°									
SAMPLE CHARACTERISTICS: CLEAR. BLACK TINT									
COMMENTS:	TCL VC	LATILES ONI	Y						

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 $(\mathbf{x})$ 

VADOT CO. OL

TARBID - BLACK

### 4-13-09 12:37

7.76 1981 alst-12.2 20.20

CLEAR BLACK TIPF

618:42 8:31 8:51

## TURBIO - BUACK

SITE NAME: BUFFALO	BUSINESS PARK		POINT ID:		VCA-N	VCA-MW1-BR		
LOCATION: BUFFA	LO, NEW YORK		FIELD REPR	ESENTATIVE:	ES&S-RCHIODO			
SAMPLE MATRIX:	GROUNDWATER		LAB SAMPL	E / PROJECT #:	NA			
EVACUATION INFORMATION	5,71		DEPTH TO E	BOTTOM (FEET)	28	.82		
ELEVATION, MEAS.PT.(MSL): 624.44 ELEVATION, G/W (MSL): 618.73								
DATE <u>4-13-09</u> TIME: START/FINISH  8:10  8:18								
METHOD OF EVACUATION: ( ) PVC BAILER ( ) WEL ( ) S.S. BAILER ( ) GRU	L WIZARD (X) NDFOS PUMP	OTHER-12V F	PUMP	EVACUATION	EQUIPMENT (X)	DEDICATED: NO		
WELL RISER DIAMETER (IN.)	( ) 2 ( <b>k</b> ) 3 🙀	() () (	6 () OTHE	R				
ONE (1) RISER VOLUME (GAL	15.02		WAS WELL	PURGED TO D	RYNESS (X)	YES ( )NO		
TOTAL VOLUME EVACUATED (	GAL) 5.00 To	DRY	WATER LEVI	EL AFTER PUR	GE (FT.)	DRY		
TURBIDITY OF PURGINGS	START CLERE -	BLACK TI	FINISH	+ CLEAR - 1	BLACK Time	r		
EVACUATION STABILIZATION	DATA							
PURGE RATE CUMULA	TIVE TEMP	pН	SPEC	IFIC CONDUCT	TURBIDITY	OTHER		
TIME (gpm/htz) VOLU	ME (G)	(Std.Unit	ts) (umhos/cm)		(NTU)	[ eh (mV) ]		
DATE / TIME 4.13.09	12.62					175		
	10.52	WAT	ER LEVEL PF	RIOR TO SAMLI				
METHOD OF SAMPLING: (X) PVC BAILER () WEL () S.S. BAILER () GRU		OTHER		SAMPLING EC (X) YES () NO	QUIPMENT DE	DICATED:		
SAMPLING FIELD MEASUREM				( ) 110				
pH TIME (Std.Units)	SPEC. CONDUCT. (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER		
12:5Y 7.72	893	11.1	23.90	-40.5	NA	NA		
<u>GENERAL INFORMATION</u> WEATHER CONDITIONS AT TIME OF SAMPLING: Suny, 45°F								
SAMPLE CHARACTERISTICS:	CLEAR - BU	/						
COMMENTS:WELL / BEDROCK PARTIALLY CAVED IN AT 13' PREVENTING COMPLETE PURGING								
TCL VOLATILES ONLY								
	AMPLE COLLECTIC	ON NUMBER	9					

CLEAR - BCACK TWT

2.01-

893 7.72 11.1 23.90

4.13.09 12:52

CLEAR - BLACK T. .. authe - Burge Ture

15.02 130 5 00 TO DEM

X

# 9.13.09

571

618.73

11.75

SITE NAME: BUFFA	LO BUSINESS PARK			POINT ID:	VCA-M	W6-BR
LOCATION: BUF	FALO, NEW YORK		FIELD REPR	ESENTATIVE:	E S & S - R CHIODO	
SAMPLE MATRIX:	GROUNDWATER		LAB SAMPL	E / PROJECT #:	NA	
EVACUATION INFORMATION INITIAL WATER LEVEL (FEE	<u>N</u> [0.1Ч		DEPTH TO I	BOTTOM (FEET)	23	2.67
ELEVATION, MEAS.PT. (MSL	623.57		ELEVATION,	G/W (MSL)	61	3.43
DATE <u>4-13-</u>	09		TIME: START		9:30	
METHOD OF EVACUATION: (*) PVC BAILER () W () S.S. BAILER () G	/ELL WIZARD ( ) RUNDFOS PUMP	OTHER-12V F	PUMP	EVACUATION (X) YES		
WELL RISER DIAMETER (I	N.):(X)2()3(	)4 ()6	6 () OTHE	R		
ONE (1) RISER VOLUME (	GAL) 2.00		WAS WELL	PURGED TO D	RYNESS (X)	YES ( ) NO
TOTAL VOLUME EVACUATE						
TURBIDITY OF PURGINGS	START CLEA	R	FINIS	H TURBID	- GRAY	
EVACUATION STABILIZATIO	ON DATA				,	
PURGE RATE CUM	JLATIVE TEMP	рН	SPEC	IFIC CONDUCT	TURBIDITY	OTHER
TIME (gpm/htz) VO	LUME (C)	(Std.Unit	s)	(umhos/cm)	(NTU)	[ eh (mV) ]
SAMPLING INFORMATION						
DATE / TIME 4-13-09	13:08	WAT	ER LEVEL P	RIOR TO SAMLIN	NG (FT.)	1.03
METHOD OF SAMPLING:				SAMPLING EC		
(X) PVC BAILER () W	ELL WIZARD ( )	OTHER		(X) YES	OF MENT DE	DICATED.
( ) S.S. BAILER ( ) G	RUNDFOS PUMP			( ) NO		
SAMPLING FIELD MEASUREMENT DATA						
pH TIME (Std.Units)	SPEC. CONDUCT.	TEMP	TURBIDITY		DISS. OXY.	OTHER
TIME      (Std.Units)        13:10      7.00	(umhos/cm)	(C) (2.3	(NTU) 2,59	(mV) -6.6	(PPM)	( )
GENERAL INFORMATION WEATHER CONDITIONS AT TIME OF SAMPLING: Sywy, 45 of						
SAMPLE CHARACTERISTICS CLEAR						
COMMENTS: TCL VOLATILES ONLY						

