

APPENDIX C

YEC, INC. MONITORING WELL SURVEY AND SAMPLING REPORTS

2010 DATA/ LOGS

HDR

16 Corporate Woods Blvd Ste. 204
Albany, New York 12211
Telephone: (518)-937-9500
Fax: (518)-937-9555

SHEET 1 OF 1

DATE September 21, 2010

DAY

S	M	T	W	TH	F	S
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DAILY REPORT

PROJECT: Woodhaven Boulevard
CONTRACTOR: YEC Engineering, Inc.
ONSITE GEOLOGISTS: Peter Lawler & Jennifer Becker

WEATHER	Bright Sun	Clear	Overcast	Rain	Snow
TEMP	To 32	32-50	50-70	70-85	85 and up
WIND	Still	Moder	High	Report No.	
HUMIDITY	Dry	Moder	Humid		

SITE SKETCH ATTACHED Yes No

CONTRACTOR FIELD FORCE

Name of Contractor	Personnel	Personnel	Equipment on Site
YEC Engineering, Inc.	Peter Lawler	Jen Becker	
	Don Stedje		
HDR	Ed Brandt		

VISITORS

Time	Name/Title	Representing	Remarks
1314	Sadique	DEC	

EQUIPMENT AT SITE:

PID meter, U-22 Horiba, Bladder pump

CONSTRUCTION ACTIVITIES:

1030 HDR and YEC surveying personnel arrived on site. Safety meeting was conducted with all personnel involved with site activities present.
1040 Ed Brandt (HDR) showed YEC well locations
1103 Began headspace and DTW monitoring round.
1240 Discussed sampling order with Sadique in order of development. MNA samples will be taken on high PID hits. Offsite for food and water.
1314 Sadique onsite; Set up on MW- 2s.
1357 Bladder replaced; not pumping water
1440 Began purging MW-2s; missing check ball in pump
1630 Began purging MW-2i
1820 Called Scott Englert (HDR) to inquire about two hour purge limit. Ed Brandt (HDR) in field thinks EPA guidance is three hour max purge.
Sadique (DEC) stated that turbidity needed to be below 50 NTU.
1838 EPA guidance states four hours before purging, and turbidity should be within 10% according to part 12.
1848 Ed Brandt (HDR) offsite.
1848 Began sampling MW- 2i.
2000 YEC offsite

SIGNED BY: Jennifer Becker (YEC Engineering, Inc.)

REVIEWED BY: _____

HDR

16 Corporate Woods Blvd Ste. 204
Albany, New York 12211
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SHEET 1 OF 1

DATE September 23, 2010

DAY

S	M	T	W	TH	F	S
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DAILY REPORT

PROJECT: Woodhaven Boulevard
CONTRACTOR: YEC Engineering, Inc.
ONSITE GEOLOGISTS: Peter Lawler & Jen Becker

WEATHER	Bright Sun	Clear	Overcast	Rain	Snow
TEMP	To 32	32-50	50-70	70-85	85 and up
WIND	Still	Moder	High	Report No.	
HUMIDITY	Dry	Moder	Humid		

SITE SKETCH ATTACHED Yes No

CONTRACTOR FIELD FORCE

Name of Contractor	Personnel	Personnel	Equipment on Site
YEC Engineering, Inc.	Peter Lawler	Jen Becker	

VISITORS

Time	Name/Title	Representing	Remarks
1530	Courier	Veritect Lab	

EQUIPMENT AT SITE:

PID meter, U-22 Horiba, Bladder pump

CONSTRUCTION ACTIVITIES:

0900 YEC onsite. Setup on well MW- 6i.
0946 Opened MW-6i ; headspace reading 41.3 ppm
1045 Sadique (DEC) called to check on sampling method. Two hour time limit is acceptable if every other parameter is stabilized. If turbidity is over 500-600 NTU pump will be turned off for 15 minutes to allow to settle for sampling.
1207 Sampled MW-6i
1215 Set up on MW- 3s
1326 Set up on MW-1s
1501 MW-3s sampled. Called Courier (Veritect) to postpone pick up.
1530 Courier (Veritect) called; onsite
1400 Called Veritect lab to discuss courier situation. Will have samples picked up at Valley Cottage office at 0924 Friday.
1655 Sampled MW-1s.
1729 Began purging MW- 4i
1930 MW- 4i had been sampled in the interim.

SIGNED BY: Jennifer Becker (YEC Engineering, Inc.)

REVIEWED BY: _____

HDR

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Albany, New York 12211
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SHEET 1 OF 1

DATE September 22, 2010

DAY

S	M	T	W	TH	F	S
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DAILY REPORT

PROJECT: Woodhaven Boulevard
CONTRACTOR: YEC Engineering, Inc.
ONSITE GEOLOGISTS: Jennifer Becker & Jim Christopher

WEATHER	Bright Sun	Clear	Overcast	Rain	Snow
TEMP	To 32	32-50	50-70	70-85	85 and up
WIND	Still	Moder	High	Report No.	
HUMIDITY	Dry	Moder	Humid		

SITE SKETCH ATTACHED Yes No

CONTRACTOR FIELD FORCE

Name of Contractor	Personnel	Personnel	Equipment on Site
YEC Engineering, Inc.	Jen Becker	Jim Christopher	
HDR	Ed Brandt	Tom	

VISITORS

Time	Name/Title	Representing	Remarks
1130	Courier	Pine Enviromental	U-22 drop off
1135	Courier	Veritect Lab	Custody of 9/21/10 samples

EQUIPMENT AT SITE:

PID meter, U-22 Horiba, Bladder pump

CONSTRUCTION ACTIVITIES:

0920 YEC personnel arrived on site, Safety meeting was conducted with all personnel involved with site activities present.

0945 Began headspace reading on remaining wells.

1143 Pump on at MW-3i.

1213 Turbidity readings were off the chart; switched out U-22 units.

1336 Reaching two hours on MW-3i, Tom (HDR) spoke to Chris (HDR). Decided sampling can occur if every parameter but turbidity had stabilized within a two hour period. Sampled MW-3i.

1420 Setup on well MW- 6i.

1446 Setup on well MW- 5i.

1525 Pump on well MW- 6i was too weak to pump water. Upon troubleshooting, it was determined the battery pack had failed.

1557 Sampled MW- 5i

1609 Jim (YEC) offsite to pick up water and avoid heat stress.

1645 Spoke to Marie (YEC) regarding daily progress. Ed (HDR) gave us his set of site keys.

1720 Little League team onsite. Spoke with Mike the coach who verified he had a set of keys.

1730 Courier (Veritect) was lost on Woodhaven blvd. YEC left site to meet him at Fine Autoparts on Union Ave.

SIGNED BY: Jennifer Becker (YEC Engineering, Inc.)

REVIEWED BY: _____

WOODHAVEN BLVD

9-20-10
05
AY

98015

HTL#	DIST	VEN#	LN	PT. NO.	REMARKS
K @ MAGNAIL #830 B/S MAGNAIL #16 HI=5.06					
0-00.00	570.440	90.41.48	4.80	19	MAGNAIL #16
180.00.00	—	269.18.12	11	11	11 11
250.48.48	132.875	89.51.24	5.27	16	MAGNAIL 16
70.48.48	—	270.08.48	11	11	11 11
K @ MAGNAIL #831 B/S MAGNAIL #16 HI=5.06					
0-00.00	521.755	90.18.48	4.80	831	MAGNAIL 831
180.00.00	—	269.41.06	11	11	11 11
252.13.42	141.22	89.59.30	5.27	901	SG 3
0.28.54	120.280	90.54.18	—	902	Bldg COR
35.27.18	128.265	89.05.30	—	903	Y1
K @ MagNai 16 B/S MagNai 830 HI=5.18					
0.00.00	132.875	90.11.54	4.82	830	MagNai 830
180.00.00	—	269.48.24	11	11	11 11
285.51.18	324.965	91.00.18	5.27	832	MagNai 832
105.57.18	—	268.59.42	11	11	11 11
K @ MagNai 832 B/S MagNai 16 HI=5.17					
0.00.00	324.970	88.57.24	5.27	16	MagNai 16
180.00.00	—	271.03.00	11	11	11 11
83.40.06	20.85	88.02.12	11	904	SG 2
182.27.36	250.54	90.14.12	11	905	SG 1
K @ MagNai 831 B/S MagNai 830 HI=5.06					
0.00.00	521.755	89.43.54	4.81	830	MagNai 830
180.00.00	—	270.15.36	11	11	11 11

(1)

Woodhaven Blvd

9-20-10
DS
AT

98015

Lot	Dist	Vert	Rad	PrNo	Remarks
147.12.06	27.34	88.30.48	5.27	906	SG 11
52.04.12	24.185	88.19.00	11	907	Bld cor
98.19.12	164.82	89.43.42	11	908	SG 12
94.53.00	375.94	89.27.06	8.70	909	SG 13
					9-2110
AP MAGNAIL #833 OSPK 21					HI 5.05
0-00-00	462.500	91.33.54	4.75	21	PK 21
180.00.00	-	268.26.18	11	"	11
38.49.36	35.88	89.21.24	5.27	910	MW 4 I
91.30.18	140.06	89.39.42	11	911	SG 10
334.02.42	245.02	92.02.12	5.72	912	MW 6 I
AP PK 21 B/S Magnail #833					HI = 4.96
0.00.00	462.500	88.29.48	4.80	833	Magnail #833
180.00.00	-	271.31.00	11	"	11
205.03.42	242.605	90.25.25	5.27	22	PK 22
25.03.42	-	269.34.12	11	"	11
201.22.18	250.08	90.22.18	11	913	MW 2 I
201.43.36	242.82	90.23.30	11	914	MW 2 S
254.43.24	114.00	90.59.12	11	915	MW 3 I
250.54.54	111.26	90.55.18	11	916	MW 3 S
102.15.42	58.50	90.31.12	0.19	917	MW 5 I
104.58.48	56.16	90.42.36	11	918	SG 8

(2)

98015

Hor	Dist	Vert	Rad	PT No	Remarks
π @ PK 22		B/S Mag Nail 23		HI = 5.04	
0.00.00	109.950	89.45.24	—	23	Mag Nail 23
342.21.12	398.64	87.45.12	15.05	919	SG 9
π @ Mag Nail 23		B/S PK 22		HI = 4.97	
0.00.00	109.950	90.29.24	4.80	2	PK 22
180.00.00	—	269.30.12	"	"	"
307.14.00	230.660	90.34.12	5.27	834	Mag Nail 834
127.14.00	—	269.25.00	"	"	"
π @ Mag Nail 834		B/S Mag Nail 23		HI = 5.05	
0.00.00	230.655	89.24.18	4.72	23	Mag Nail 23
180.00.00	—	270.35.12	"	"	"
89.21.48	67.695	88.30.06	5.27	835	Mag Nail 835
269.21.48	—	271.29.24	"	"	"
83.55.12	315.04	88.08.36	7.00	920	SG 6
80.03.30	488.52	88.16.00	5.27	921	SG 7' RT
276.05.36	38.00	90.40.00	"	922	SG 4
278.11.00	38.16	90.41.42	"	923	MIN 1'S
π @ Mag Nail 835		B/S Mag Nail 834		HI = 4.91	
0-0-0	67.665	90.58.06	5.27	834	Mag Nail 834
180.00.00	—	269.01.12	"	"	"
246.00.30	158.62	88.49.06	"	924	SG -5

Woodhaven Blvd.

9-21-10

98015

Elev

05
118

+	HI	-	Elev	Remarks
			76.74	Mag Nail 23
3.54	80.28			
		7.49	72.79	MW 1 S PVC
		6.93	73.35	" CSq
		6.22	74.06	Mag Nail 1834
6.30	80.36			
		3.62	76.74	Mag Nail 23
			74.06	Mag Nail 1834
5.31	79.37			
		3.80	75.57	Mag Nail 1835
3.82	79.39			
		5.33	74.06	Mag Nail 1834
			75.93	PK 22
6.21	82.14			
		6.49	75.65	MW 2 S PVC
		6.03	76.11	" CSq
		6.64	75.50	MW 2 I PVC
		5.98	76.16	" CSq
		6.64	75.50	MW 3 S PVC
		6.18	75.96	" CSq
		6.91	75.23	MW 3 I PVC
		6.36	75.78	" CSq
		4.06	78.08	PK 21
4.10	82.18			

(1)



Well Sampling Form

Project No. NYSDEC Standby
Contract- Work Assignment #7

Location: Woodhaven Blvd **Well No.** MW-1s **Start Date:** 9/23/2010

Client: NYSDEC/HDR **Inspector:** P.L. **End Date:** 9/23/2010

Well Depth: (ft bgs) 70.55 **Well Diameter:** 2" **Well Volume: (gallons)** 14.31 **Pump Installed: (ft bgs)** 62.33'bgs

Time	Water Depth (ft)	Purge Rate (mL/min)	Field Measurements						Remarks
			Temp (C)	DO (mg/L)	ORP (mV)	Turb (NTU)	pH	Cond. (mS/cm)	
1326	55.16								Static Water
									Pump installed
1420									Pump on
1451	55.20	20	21.57	12.94	127	-5.0	7.18	0.511	
1501	55.18	100	21.08	10.64	129	-5.0	7.22	0.506	
1506	55.20	80	19.34	10.19	133	-5.0	7.20	0.493	
1511		110	16.81	10.25	135	-5.0	7.22	0.495	
1521	54.10	90	17.64	9.90	143	-5.0	7.12	0.487	
									pump removed, air o-ring replaced
1550	55.19	300	18.18	12.18	137	-5.0	7.32	0.498	
1600	55.18	180	16.63	10.16	137	-5.0	7.48	0.498	
1605	55.24	210	16.57	9.55	145	704.0	7.27	0.492	
1610	55.23	200	16.71	9.18	150	395.0	7.16	0.491	
1615	55.23	200	16.62	8.92	152	297.0	7.06	0.504	
1620	55.23	190	16.39	8.50	155	140.0	6.94	0.503	
1625	55.24	190	16.39	8.22	156	115.0	6.91	0.495	
1630	55.23	190	16.31	8.17	156	110.0	6.91	0.494	
1635	55.23	190	16.28	8.08	155	97.8	6.91	0.496	
1640	55.23	190	16.2	7.98	153	92.3	6.93	0.494	
1645	55.23	190	16.34	7.98	153	94.4	6.94	0.491	
1650	55.23	190	16.12	8.04	151	92.3	6.95	0.492	
1655									WB-MW-1s-GW-70-0 sampled
1656	55.21	190	17.04	9.49	150	47.9	7.10	0.492	

Pump Type: Sample-Pro Low Flow (Bladder Pump) **Parameters:** VO8260, NO2, NO3, Chloride, SO4, Alkalinity, Sulfide, Fe+Mn-dissolved



Well Sampling Form

Project No. NYSDEC Standby
Contract- Work Assignment #7

Location: Woodhaven Blvd **Well No.** MW-2i **Start Date:** 9/21/2010

Client: NYSDEC/HDR **Inspector:** P.L. **End Date:** 9/21/2010

Well Depth: (ft bgs) 111.3 **Well Diameter:** 2" **Well Volume: (gallons)** 49.73 **Pump Installed: (ft bgs)** 107.52

Time	Water Depth (ft)	Purge Rate (mL/min)	Field Measurements						Remarks
			Temp (C)	DO (mg/L)	ORP (mV)	Turb (NTU)	pH	Cond. (mS/cm)	
1125	57.83								Static Water
1616	57.72								Pump installed
1617									Pump on
1625	57.73	90	20.0	6.33	43	-5.0	7.99	0.831	
1630	57.74	<80	19.8	6.83	77	-5.0	7.01	1.49	CMP6
1635	57.74	150	18.9	7.77	92	-5.0	6.65	1.69	CMP2
1640	57.74	150	18.8	7.88	96	-5.0	6.56	1.72	
1645	57.74	150	18.5	7.97	104	-5.0	6.39	1.72	
1650	57.75		17.1	8.05	109	-5.0	6.28	1.71	CMP3
1655	57.75	165	17.6	7.87	111	-5.0	6.26	1.73	CMP2
1700	57.74	190	18.2	7.99	115	-5.0	6.23	1.71	emptied flow-through to attempt to clear turbidity
1705	57.74	175	17.7	7.88	116	-5.0	6.20	1.70	
1710	57.74	170	17.5	7.84	117	-5.0	6.19	1.69	
1717	57.74	170	17.4	7.91	119	-5.0	6.17	1.70	
1720	57.74	175	17.4	7.93	119	810.0	6.16	1.70	
1725	57.74	180	17.3	7.99	121	524.0	6.15	1.70	
1730	57.74	200	17.3	8.04	122	481.0	6.14	1.70	
1735	57.74	195	17.3	8.08	123	435.0	6.12	1.73	
1745	57.74	175	17.3	8.08	125	343.0	6.11	1.73	
1750	57.74	200	17.2	8.08	126	318.0	6.10	1.72	
1755	57.74	175	17.2	8.05	127	252.0	6.10	1.71	
1810	57.68	175	17.3	8.03	128	273.0	6.10	1.74	
1815	57.70	180	17.2	8.01	129	326.0	6.10	1.73	
1830	57.72	200							
1840	57.65	180	17.1	8.09	132	237.0	6.08	1.73	
1842									Scott (HDR) gave ok to collect samples, through phone conversation with Ed (HDR)
1845									WB-MW-2i-GW-111-0 Sampled
1848									WB-MW-2i-GW-111-0 MS Sampled
1851									WB-MW-2i-GW-111-0 MSD Sampled
1853									WB-MW-2i-GW-111-1 Sampled
1856									WB-MW-2i-GW-111-2 Sampled

Pump Type: Sample-Pro Low Flow (Bladder Pump) **Parameters:** VO8260, NO2, NO3, Chloride, SO4, Alkalinity, Sulfide, Fe+Mn-dissolved



Well Sampling Form

Project No. NYSDEC Standby
Contract- Work Assignment #7

Location: Woodhaven Blvd	Well No. MW-3s	Start Date: 9/23/2010
Client: NYSDEC/HDR	Inspector: P.L.	End Date: 9/23/2010

Well Depth: (ft bgs) 65	Well Diameter: 2"	Well Volume: (gallons) 9.87	Pump Installed: (ft bgs) 59.4
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Time	Water Depth (ft)	Purge Rate (mL/min)	Field Measurements						Remarks
			Temp (C)	DO (mg/L)	ORP (mV)	Turb (NTU)	pH	Cond. (mS/cm)	
1224	54.39								Static Water
	54.15								Pump installed
1247									Pump on
1255	54.45	150	19.1	6.88	149	362.0	6.60	0.590	
1300	54.45	150	19.1	6.87	148	381.0	6.71	0.605	
1305	54.45	160	19.2	4.25	93	483.0	7.53	0.602	
1310	54.45	160	19.4	3.66	60	508.0	8.11	0.599	
1315	54.50	150	19.3	3.60	53	531.0	8.18	0.598	
1320	54.65	150	19.3	3.22	39	681.0	8.34	0.595	
1325									Held to switch cut probe
1330	57.31	150	21.0	3.16	33	599.0	8.27	0.600	
1335	56.05	170	23.3	3.18	32	572.0	8.25	0.601	changed discharge to 12/3
1340	56.15	80	21.3	3.63	31	553.0	8.26	0.594	
1345	56.16	80	21.8	3.28	26	472.0	8.33	0.595	
1350	56.15	80	21.9	3.16	39	422.0	8.26	0.597	
1355	56.31	150	20.9	3.67	45	408.0	8.04	0.600	changed discharge to 11/4
1400	56.30	130	20.4	4.35	57	385.0	7.88	0.601	changed discharge to 11.5/3.5
1405	56.33	100	20.7	4.75	64	265.0	7.80	0.601	
1410	56.39	100	20.7	5.16	78	248.0	7.63	0.599	
1415	56.41	100	20.7	5.27	81	252.0	7.62	0.600	
1420	56.42	100	20.7	5.30	81	258.0	7.61	0.595	
1425	56.49	100	20.6	5.22	78	248.0	7.67	0.598	
1430	56.50	110	20.5	5.13	77	249.0	7.70	0.597	
1435	56.56	100	20.2	5.07	73	284.0	7.77	0.597	
1440	56.55	100	20.3	5.03	69	230.0	7.82	0.596	
1445	56.57	100	20.3	5.03	64	260.0	7.97	0.594	
1450	56.57	100	20.1	5.05	59	268.0	8.04	0.591	
1500									WB-MW-3s-GW-65-0 Sampled
1521	56.65	80	27.8	5.23	65	224.0		0.602	

Pump Type: Sample-Pro Low Flow (Bladder Pump)	Parameters: VO8260, NO2, NO3, Chloride, SO4, Alkalinity, Sulfide, Fe+Mn-dissolved
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Well Sampling Form

Project No. NYSDEC Standby
Contract- Work Assignment #7

Location: Woodhaven Blvd	Well No. MW-3i	Start Date: 9/22/2010
Client: NYSDEC/HDR	Inspector: J.B.	End Date: 9/22/2010

Well Depth: (ft bgs) 111.19	Well Diameter: 2"	Well Volume: (gallons) 50.02	Pump Installed: (ft bgs) 106.19
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Time	Water Depth (ft)	Purge Rate (mL/min)	Field Measurements						Remarks
			Temp (C)	DO (mg/L)	ORP (mV)	Turb (NTU)	pH	Cond. (mS/cm)	
1122	57.41								Static Water
1125	57.51								Pump installed
1145									Pump on
1151	57.47	250	22.0	6.33	64	200.0	8.56	0.90	
1156							7.41	1.10	pump held, dead battery
1200	57.47	300	19.5	2.70	121	-5.0	6.66	1.18	pump on
1205	57.47	290	19.7	2.29	133	-5.0	6.32	1.21	
1210									switched U-22 due to turbidity
1215	57.47	350	17.86	1.00	25	134.0	6.74	1.18	
1220	57.49	340	17.10	0.54	48	80.8	6.81	1.18	
1225	57.47	320	16.71	0.95	59	66.3	6.85	1.17	
1230	57.47	300	16.75	3.78	69	109.0	6.80	1.15	
1235	57.48	300	16.75	3.74	73	119.0	6.77	1.12	
1240	57.47	300	16.87	2.03	71	126.0	6.74	1.11	
1245	57.47	310	16.92	1.39	68	197.0	6.76	1.09	discharge of 3.0
1250	57.47	300	16.54	4.71	73	229.0	6.79	1.06	
1255	57.47	110	16.99	2.39	69	329.0	6.77	1.06	CPM1
1300	57.46	300	18.26	3.58	69	424.0	6.81	1.04	CPM4
1305	57.46	300	17.37	1.12	67	149.0	6.85	1.08	
1310	57.46	300	17.48	0.00	63	266.0	6.84	1.08	
1315	57.47	310	17.08	0.00	62	264.0	6.83	1.08	
1320	57.47	300	16.80	0.00	64	230.0	6.85	1.06	
1325	57.47	320	16.84	0.00	65	112.0	6.85	1.03	
1330	57.47	320	16.90	0.09	69	230.0	6.84	1.01	
1340	57.47	320	17.01	0.96	69	207.0	6.84	0.98	
1345	57.47	320	17.40	0.90	69	152.0	6.84	0.97	
1350	57.47	320	17.06	0.92	66	203.0	6.83	0.94	
1403									WB-MW-3i-GW-111-0 Sampled
1406	57.46	320	18.90	2.30	69	13.9	6.87	1.21	

Pump Type: Sample-Pro Low Flow (Bladder Pump)	Parameters: VO8260, NO2, NO3, Chloride, SO4, Alkalinity, Sulfide, Fe+Mn-dissolved
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Well Sampling Form

Project No. NYSDEC Standby
Contract- Work Assignment #7

Location: Woodhaven Blvd	Well No. MW-6i	Start Date: 9/22/2010
Client: NYSDEC/HDR	Inspector: J.B.	End Date: 9/23/2010

Well Depth: (ft bgs) 111.24	Well Diameter: 2"	Well Volume: (gallons) 45.11	Pump Installed: (ft bgs) 105.31
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Time	Water Depth (ft)	Purge Rate (mL/min)	Field Measurements						Remarks
			Temp (C)	DO (mg/L)	ORP (mV)	Turb (NTU)	pH	Cond. (mS/cm)	
1519	62.73								Static Water
1525	62.74								Pump installed/removed, dead battery
1005	63.86								pump reinstalled
1006									pump on
1010	62.85	210	18.24	9.83	114	306.0	6.47	1.54	
1020	62.90	200	16.02	0.12	96	-5.0	6.92	1.47	
1025	62.91	200	15.78	0.00	91	-5.0	6.88	1.45	
1030	62.91	200	15.74	0.00	86	-5.0	6.84	1.44	
1035	62.91	200	15.73	0.00	83	-5.0	6.83	1.44	
1040	62.91	200	15.88	0.00	82	-5.0	6.82	1.44	
1045	62.90	200	15.95	0.00	79	-5.0	6.82	1.46	
1050	62.90	200	16.14	0.00	75	-5.0	6.84	1.49	
1055	62.87	200	16.11	0.00	71	-5.0	6.86	1.51	
1100	62.88	200	16.34	0.00	68	-5.0	6.88	1.52	
1105	62.87	200	16.53	0.00	63	768.0	6.91	1.50	
1110	62.87	200	16.48	0.00	61	622.0	6.93	1.50	
1115	62.85	200	16.49	0.00	58	662.0	6.95	1.50	
1120	62.85	200	16.53	0.00	56	646.0	6.96	1.49	
1125	62.85	200	16.15	0.00	55	533.0	6.97	1.51	
1130	62.85	200	16.02	0.00	54	506.0	6.97	1.50	
1135	62.86	200	16.35	0.00	53	610.0	6.97	1.53	
1140	62.86	200	16.36	0.00	52	472.0	6.98	1.54	
1145	62.86	200	16.83	0.00	50	440.0	6.99	1.52	
1150	62.85	200	16.74	0.00	49	431.0	7.00	1.52	
1155	62.85	200	16.95	0.00	48	335.0	7.01	1.52	
1200	62.85	200	16.76	0.00	47	346.0	7.01	1.53	
1205	62.85	200	16.31	0.00	47	245.0	7.01	1.51	
1207									WB-MW-6i-GW-111-0 Sampled
1214	62.85	200	17.80	0.00	88	105.0	7.08	1.53	

Pump Type: Sample-Pro Low Flow (Bladder Pump)	Parameters: VO8260
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HOME DEPOT
WOODHAVEN BOULEVARD, QUEENS, NY

POINT I.D.	NORTHING	EASTING	TOP OF CASING	TOP OF PVC
MW-1S	196934.33	1023216.92	73.35	72.79
MW-2I	197006.90	1023347.53	76.16	75.50
MW-2S	197006.16	1023354.91	76.11	75.65
MW-3I	197039.46	1023548.63	75.78	75.23
MW-3S	197034.22	1023542.63	75.96	75.50
MW-4I	196983.74	1024017.92	90.57	90.07
MW-5I	196873.92	1023577.55	82.30	81.60
MW-6I	196841.32	1023834.95	80.99	80.33
SG-1	197677.08	1023137.38	62.8	
SG-2	197422.63	1023144.63	64.6	
SG-3	197106.59	1023205.07	69.4	
SG-4	196934.02	1023215.56	73.4	
SG-5	196733.08	1023111.71	78.5	
SG-6	196599.39	1023325.11	82.3	
SG-7	196448.22	1023414.37	88.6	
SG-8	196876.69	1023575.26	82.2	
SG-9	196871.68	1023729.74	81.5	
SG-10	197103.13	1024041.50	91.0	
SG-11	197242.21	1023873.91	67.5	
SG-12	197389.52	1023856.99	67.6	
SG-13	197600.33	1023839.72	73.3	

DATE OF FIELD SURVEY: SEPTEMBER 21, 2010
HORIZONTAL DATUM: NAD 83 FROM GPS OBSERVATIONS
VERTICAL DATUM: NAVD 88 FROM GPS OBSERVATIONS

2011 DATA/ LOGS

YEC, INC.

DAILY FIELD REPORT

DATE:	12/19/2011
PROJECT # :	NYSDEC Standby Contract – Work Assignment #7
PROJECT :	Woodhaven
CLIENT :	HDR
PROJECT SITE :	Glendale, Queens, NY
PROJECT MANAGER :	Scott Englert
PERSONNEL :	Peter Lawler, Jim Christopher

<i>TIME</i>	<i>FIELD ACTIVITIES</i>
<u>0845</u>	YEC onsite. Weather report; Sunny, around 40F, with a slight breeze. YEC discussed work to be completed; called Ed Brandt to ensure YEC would have access to site for today's activities.
<u>0900</u>	Ed Brandt (HDR) onsite; discussed HAS, attempted to calibrate PID – Batteries need to be replaced, YEC offsite to purchase batteries
<u>0945</u>	Calibrated PID. Final reading 99.0 (see attached calibration log)
<u>1000</u>	YEC began monitoring round. Wells will be monitored for headspace, Depth to water (DTW) and Total Depth (TD) readings will be collected. Began at MW-7s/i/d wells to limit chances for cross contamination. Monitoring and sampling, will attempt to be completed from cleanest to dirtiest wells. Decontamination Procedures as per YEC guidance documents will be performed between each well both for monitoring and sampling activities.
<u>1150</u>	Monitoring round completed. Occasional PID readings were recorded for headspace. Field team attributed most of these readings to humidity within the wells, condensation was seen on the inside of the risers. Ed Brandt reminded YEC MW-3s was constructed with only a 5' screen interval, unlike all other site wells. Ed provided YEC with the following list of wells to have Full MNA analysis sampled; MW-1s, 2i, 5s, 5d, 6i, 7i, 8s. YEC will specify on COC that the Fe+Mn – dissolved analysis will need to be filtered by Veritech Labs.
<u>1212</u>	YEC offsite to set up equipment and glassware
	Drum count
	6 empty drums in staging area (fenced yard above ball fields)

Report prepared by: PL Title: Staff Geologist

12-19-11

Woodhaven - Low flow

Petra Lauber (A) 0830

P. Sim Christopher (A) 0840

Sunny 40°F; slight breeze.

0900 Ed Brandt (HRC) onsite; discussed

MAS and site history

0930 offsite for batteries for PID

0945 calibrated PID. final reading 99.0

Time	Well ID	OTW PID	OTW PTD	TD	comments.
1006	MW-7S	3.6	84.43	100.14	
1012	MW-7I	16.2	84.79	120.49	
1017	MW-7D	0.0	86.62	165.64	to 2 strokes to well.
1039	MW-01	0.0	54.58	69.94	
1045	MW-8S	1.1	64.27	80.10	
1057	MW-5S	0.0	61.97	74.44	
1102	MW-5I	0.0	63.26	111.67	
1106	MW-5D	0.0	63.48	150.34	
1114	MW-4I	0.0	71.94	110.39	
1124	MW-6S	0.0	62.22	70.15	
1129	MW-6I	0.0	62.15	109.76	
1134	MW-3I	3.2	56.82	110.12	
1141	MW-3S	0.0	53.07	64.94	5' screen
1145	MW-2S	0.0	57.16	70.21	
1148	MW-2I	0.0	56.94	108.92	

(47)

MWA wells: 1S, 2I, 5S, 5D,
6I, 7I, 8Sspecify on COC that lab is
filtering metals1212 YEC offsite to set up equipment
and glassware

(48)

Woodhaven 7-20
46°F, overcast
Jim Christopher (A) 0830
Pete Lanter (A) 0830

0830 YEC onsite; equipment calibrated,
HHS meeting held (see attached),
set up on MW-7(D,S) to begin.

1119 Morone (Veritech) called to discuss
of MNA samples coming in
and P/U times.

1233 spoke to Scott (HPR) to discuss
sampling - TAL Metals (Full) will
not be analyzed.

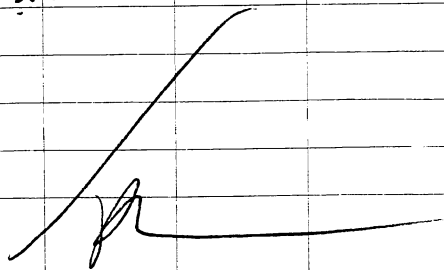
1415 YEC completed sampling - offsite.

6 drums onsite

(1) ~ 12 gallons purple water

(5) empty

buckets, garbage; cones left in
staging area



Woodhaven 7-21-11
53° overcast, humid
Pete Lanter (A) 0830
Jim Christopher (A) 0845

0830 YEC set up on MW-1S

0855 Tom (Veritech) called regarding
P/U location.

0923 Tom onsite for samples

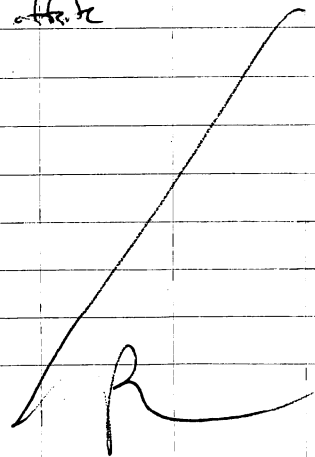
Completed MW-1S; MW-8S;
MW-6S, MW 6I

(1) drum water

(1) drum 1DW (solids)

(4) empty

1430 YEC offsite



12-22-11

Wadsworth

sunny 53°F

Pete Lank (A) 0830

Brian Cappoli (A) 0820

0845 YEC calibrated equip. and held

HATS meeting.

set up on mt-25; 2I

0945 Vertech collected samples from 12-21.

1030 spoke w/ Murray (Vertech) to discuss scheduling.

D/U today will be moved up 1 hr due to driver scheduling.

1330 Sampling complete.

1400 samples picked up by Vertech

1415 YEC offsite.

Wadsworth

12-27-11

overcast 42°F

Pete Lank (A) 0900

Jim Christopher (A) 0840

0840 YEC on site

0900 YEC offsite for supplies / ice

0930 YEC onsite; HATS meeting; calibrated equipment.

1230 called Vertech to request courier arrive sooner than 1520

1335 Sampling complete; cleanup begin

1350. site cleaned.

1400 courier onsite; YEC offsite

(4) empty drums

(1) 50 gal purge H₂O

(1) ID w solids

GROUNDWATER MONITORING DATA COLLECTION SHEET

SITE: Woodhaven

DATE:

12/19/2011

WEATHER: 40F, Sunny

PERSONEL:

Pete Lawler, Jim Christopher

WELL	TIME	PID (PPM)	DEPTH TO WATER	TOTAL DEPTH	COMMENTS
MW-1s	1039	0.0	54.58	69.94	
MW-2s	1145	0.0	57.16	70.21	
MW-2i	1148	0.0	56.98	108.92	
MW-3s	1141	0.0	53.07	64.94	5' sreened interval
MW-3i	1134	3.2	56.82	110.12	
MW-4i	1114	0.0	71.94	110.39	
MW-5s	1057	0.0	61.97	74.44	
MW-5i	1102	0.0	63.26	111.67	
MW-5d	1106	0.0	63.48	150.34	
MW-6s	1124	0.0	62.22	70.15	
MW-6i	1129	0.0	62.15	109.76	
MW-7s	1006	3.6	84.43	100.14	
MW-7i	1012	16.2	84.79	120.49	
MW-7d	1017	0.0	86.62	165.64	well risor is considered wavy due to difficulty dropping tape
MW-8s	1045	1.1	64.27	80.10	

**GROUNDWATER MONITORING
DATA COLLECTION SHEET**

SITE: Woodhaven

DATE:

12/19/2011

WEATHER: 40F, Sunny

PERSONEL:

Pete Lawler, Jim Christopher

WELL	TIME	PID (PPM)	DEPTH TO WATER	TOTAL DEPTH	Reference Elevation (PVC)	GW Elevation (ft MSL)	COMMENTS
MW-1s	1039	0.0	54.58	69.94	72.79	18.21	
MW-2s	1145	0.0	57.16	70.21	75.65	18.49	
MW-2i	1148	0.0	56.98	108.92	75.50	18.52	
MW-3s	1141	0.0	53.07	64.94	75.50	22.43	5' sreened interval
MW-3i	1134	3.2	56.82	110.12	75.23	18.41	
MW-4i	1114	0.0	71.94	110.39	90.07	18.13	
MW-5s	1057	0.0	61.97	74.44	79.92	17.95	
MW-5i	1102	0.0	63.26	111.67	91.60	28.34	
MW-5d	1106	0.0	63.48	150.34	81.76	18.28	
MW-6s	1124	0.0	62.22	70.15	80.31	18.09	
MW-6i	1129	0.0	62.15	109.76	80.33	18.18	
MW-7s	1006	3.6	84.43	100.14	102.37	17.94	
MW-7i	1012	16.2	84.79	120.49	102.59	17.80	
MW-7d	1017	0.0	86.62	165.64	102.18	15.56	well riser is considered wavy due to difficulty dropping tape
MW-8s	1045	1.1	64.27	80.10	82.22	17.95	

WOODHAVEN BOULEVARD

ADDITIONAL WELLS

WELLS

WELL I.D.	NORTHING	EASTING	TOP OF CASING	TOP OF PVC
MW-5D	196876.69	1023675.87	82.07	81.76
MW-5S	196897.11	1023567.78	80.47	79.92
MW-6S	196848.18	1023814.51	80.75	80.31
MW-7D	196349.31	1024270.98	102.77	102.18
MW-7I	196333.36	1024298.57	102.99	102.59
MW-7S	196337.74	1024293.62	103.03	102.37
MW-8S	196571.63	1023298.66	83.05	82.22

SOIL VAPOR POINTS

I.D.	NORTHING	EASTING	TOP ELEVATION
SG-14	197218.65	1022411.53	73.80
SG-15	197508.69	1022837.58	66.77
SG-16	197030.16	1022640.83	70.39
SG-17	197246.84	1022958.04	66.42
SG-18	196517.40	1022815.73	79.21
SG-19	196628.43	1022973.35	80.32
SG-20	196347.71	1022905.52	86.13
SG-21	196473.30	1023129.20	84.38
SG-22	196147.73	1023073.97	95.20
SG-23	196245.55	1023241.72	94.18
SG-24	197125.65	1022778.78	68.02
SG-25	197370.85	1022635.02	69.75
SG-26	196579.89	1022728.57	79.51
SG-27	197942.05	1023253.04	61.41
SG-28	198011.34	1023243.18	61.11
SG-29	198123.17	1023368.59	61.14
SG-30	198127.92	1023492.98	61.71

DATE OF FIELD SURVEY: NOVEMBER 29, 2011

HORIZONTAL DATUM: NAD 83 FROM GPS OBSERVATIONS

VERTICAL DATUM: NAVD 88 FROM GPS OBSERVATIONS