Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Joe Branch
Project Manager
Direct Dial (231) 670-6809

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Montague, MI 49437
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May 2, 2011 Reference No. 001069

Ms. Gloria M. Sosa
USEPA
Region II, Site Investigation & Compliance Branch
290 Broadway, 20th Floor
New York, NY 10007-1866

Mr. Will Welling
NYSDEC
Remedial Bureau D, 12th Floor
625 Broadway
Albany, NY 12233-7013

Dear Ms. Sosa and Mr. Welling:

Re: **Quarterly Operations Report – First Quarter 2011**
Hyde Park Remedial Program
Bedrock and Overburden Monitoring Programs

In accordance with the July 2006 "Performance Monitoring Plan," the following is the quarterly data report for the Hyde Park Remedial Program for the period January 1, 2011 through March 31, 2011. A total of 11.8 million gallons of aqueous phase liquid (APL) was collected, treated, and discharged in compliance with our City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial Users Wastewater Discharge Permit #49; no non-aqueous phase liquid (NAPL) was shipped for incineration. The potentiometric contours are consistent with previous interpretations. Flow zones 6, 7, and 9 have large dewatered areas between the landfill and the gorge face. The current data continue to support the interpretation of effective hydraulic containment.

The performance monitoring data are presented as follows:

1. Figures 1-9: Showing groundwater contours for the flow zones and overburden
2. Figure 10: Showing continuously recorded water levels at flow zone piezometer PMW-1M-09
3. Table 1: Water Level Elevation Summary
4. Tables 2, 3, and 4: Daily, Weekly, and Quarterly Treatment System Effluent Monitoring Data
5. Attachment 1: Purge well performance graphs indicating daily level and flow information

The pump in PW-2UR demonstrated intermittent operational interruptions during the first quarter 2011. The pump remains operational while the reason for the intermittent operational interruptions is being investigated. Any actions required will be taken to maintain operation during the investigation.

In February 2011, the pump in APW-1 began experiencing intermittent operational problems due to groundwater infiltrating the chamber. Site maintenance is currently investigating the cause of these problems, and at the present time the unit remains operational.

The pump in purge well PW-2L required removal and replacement during February 2011. As of February 19, 2011, the unit is operational. The seal for the Main Leachate Feed Pump was also replaced during February, and the unit is currently operational.

In late February 2011, the dike sump pumps in the main storage dike sump and the secondary storage dike sump ceased operating. As of the first week of April, both the main storage dike sump pump and the secondary storage dike sump pump were replaced and are currently operational. The secondary dike sump pump was replaced prior to the main storage dike sump pump. While waiting for the parts required to repair the main storage dike sump pump, the main storage dike sump was pumped manually into the secondary dike sump.

In March 2011, PW-6UR started experiencing intermittent operational problems. Repairs to the pump were completed April 18, and the pump is currently operational. PW-1U experienced clogging during March 2011 due to a large amount of sediment and NAPL that had accumulated at the bottom of the well. The well was cleaned twice in March, as and of April 18, the well is functioning as normally.

An electronic copy of this report is included on the attached CD as an Adobe® Acrobat® file. If you have any questions, please feel free to contact me at 231-670-6809 or by email at joseph_branch@oxy.com.

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.

Joe Branch
Project Manager
231-670-6809 Cell

JB/JP/adh/36
Encl.

c.c.: M. Anderson, GSH - 1
M. Forcucci, NYSDOH – 1*
B. Sadowski, NYSDEC – CD Only
G. Sosa, USEPA – 4*
W. Welling, NYSDEC – CD Only
J. Pentilchuk, CRA – 1
J. Polovich, CRA

*Includes one copy on CD

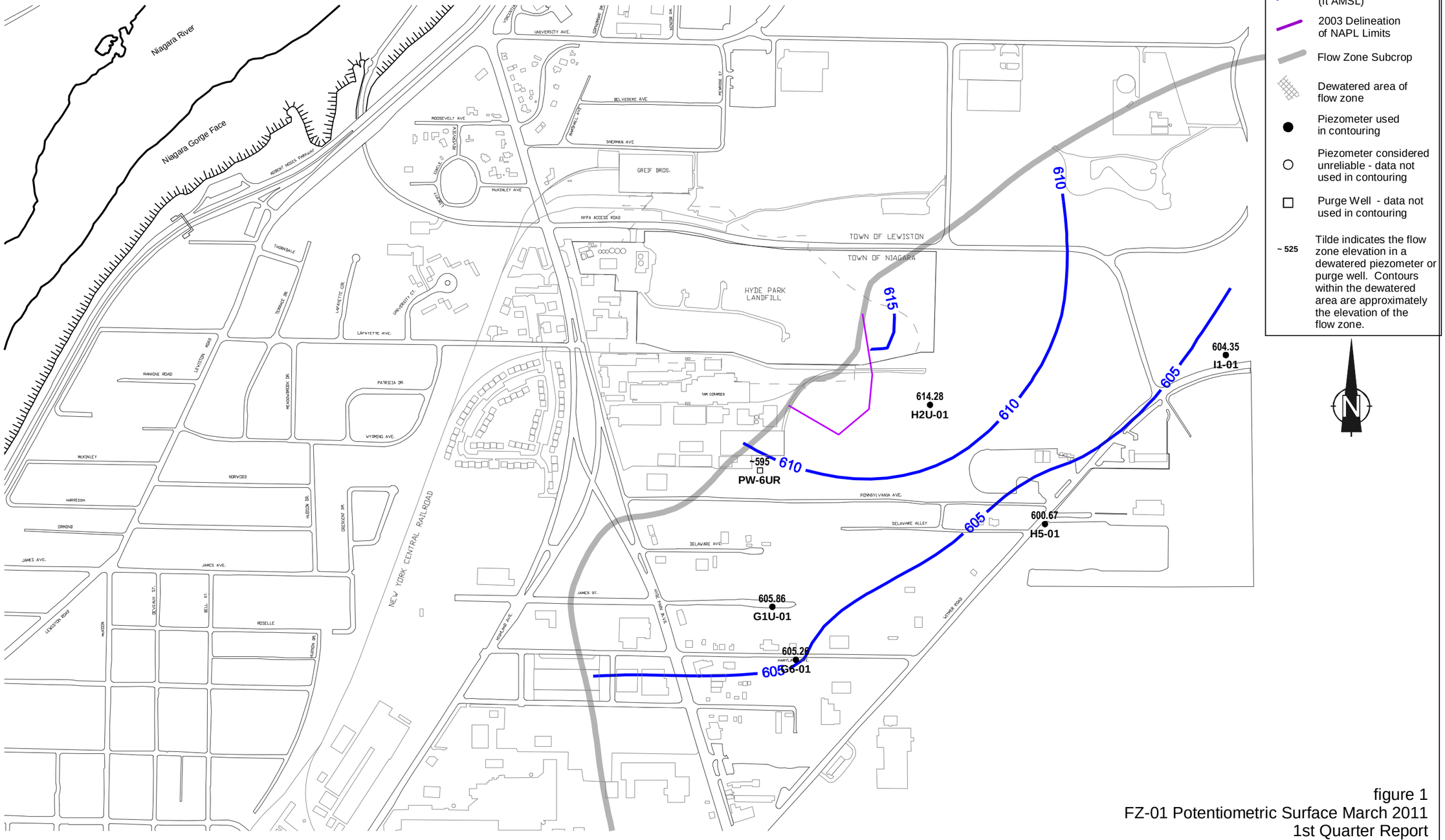


figure 1
FZ-01 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

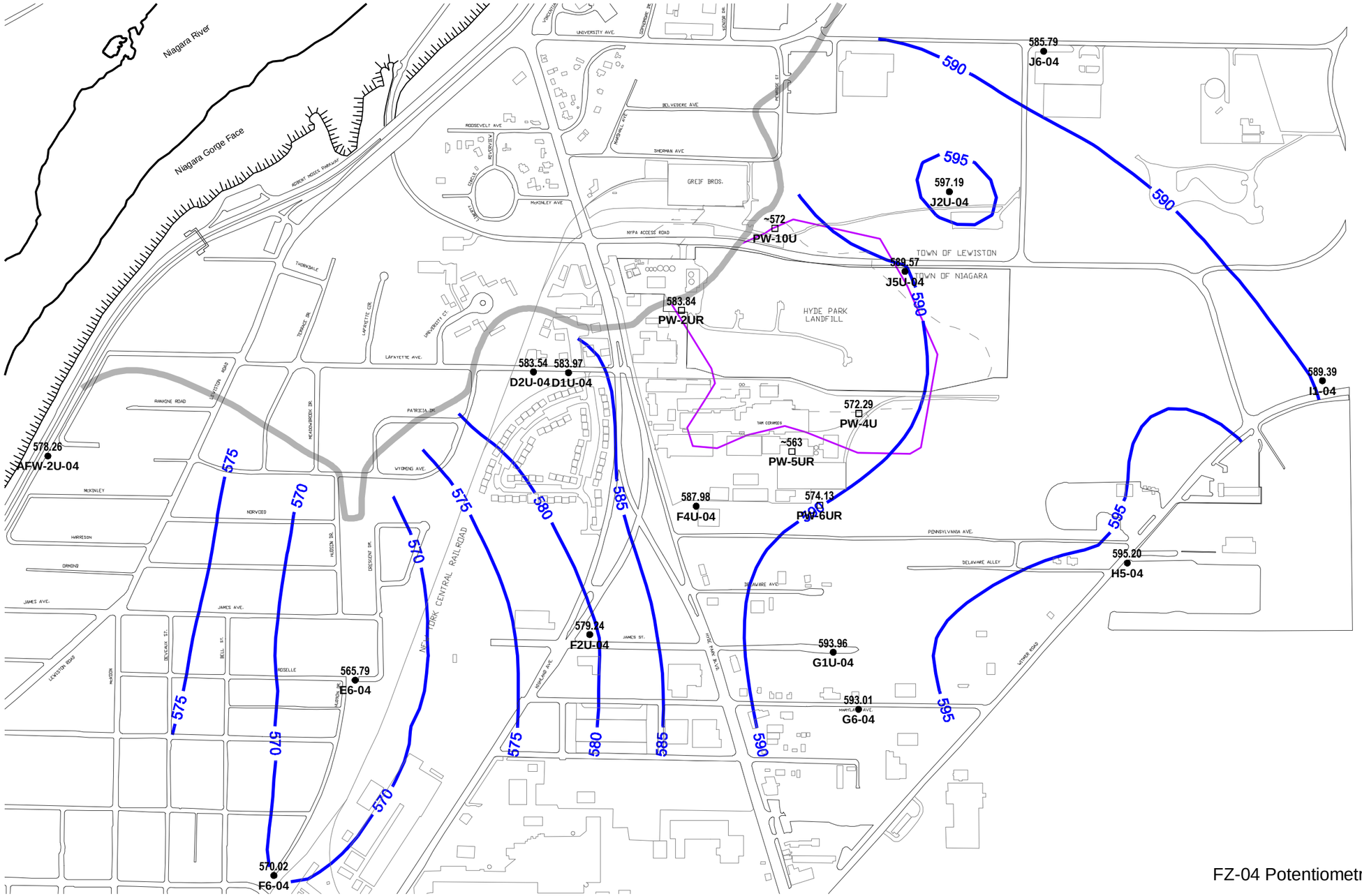
Legend

- Potentiometric Contour (ft AMSL)
- 2003 Delineation of NAPL Limits
- Flow Zone Subcrop
- Dewatered area of flow zone
- ● Piezometer used in contouring
- ○ Piezometer considered unreliable - data not used in contouring
- □ Purge Well - data not used in contouring
- ~ 525 Tilde indicates the flow zone elevation in a dewatered piezometer or purge well. Contours within the dewatered area are approximately the elevation of the flow zone.

N

figure 2
FZ-02 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Glenn Springs Holdings, Inc.



Legend

- Potentiometric Contour (ft AMSL)
- 2003 Delineation of NAPL Limits
- Flow Zone Subcrop
- Dewatered area of flow zone
- ● Piezometer used in contouring
- ○ Piezometer considered unreliable - data not used in contouring
- □ Purge Well - data not used in contouring
- ~ 525 Tilde indicates the flow zone elevation in a dewatered piezometer or purge well. Contours within the dewatered area are approximately the elevation of the flow zone.

figure 3
FZ-04 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

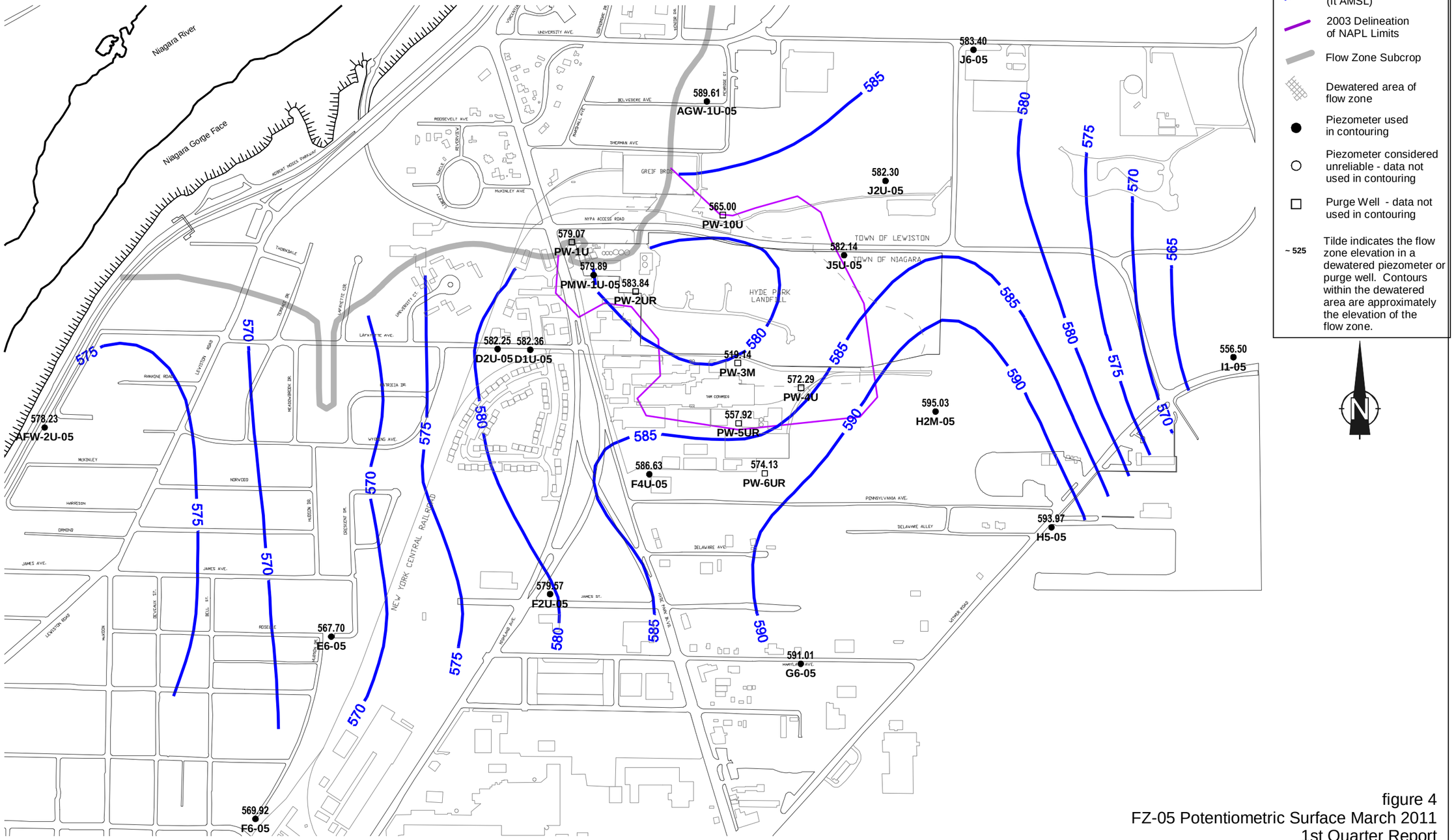


figure 4
FZ-05 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

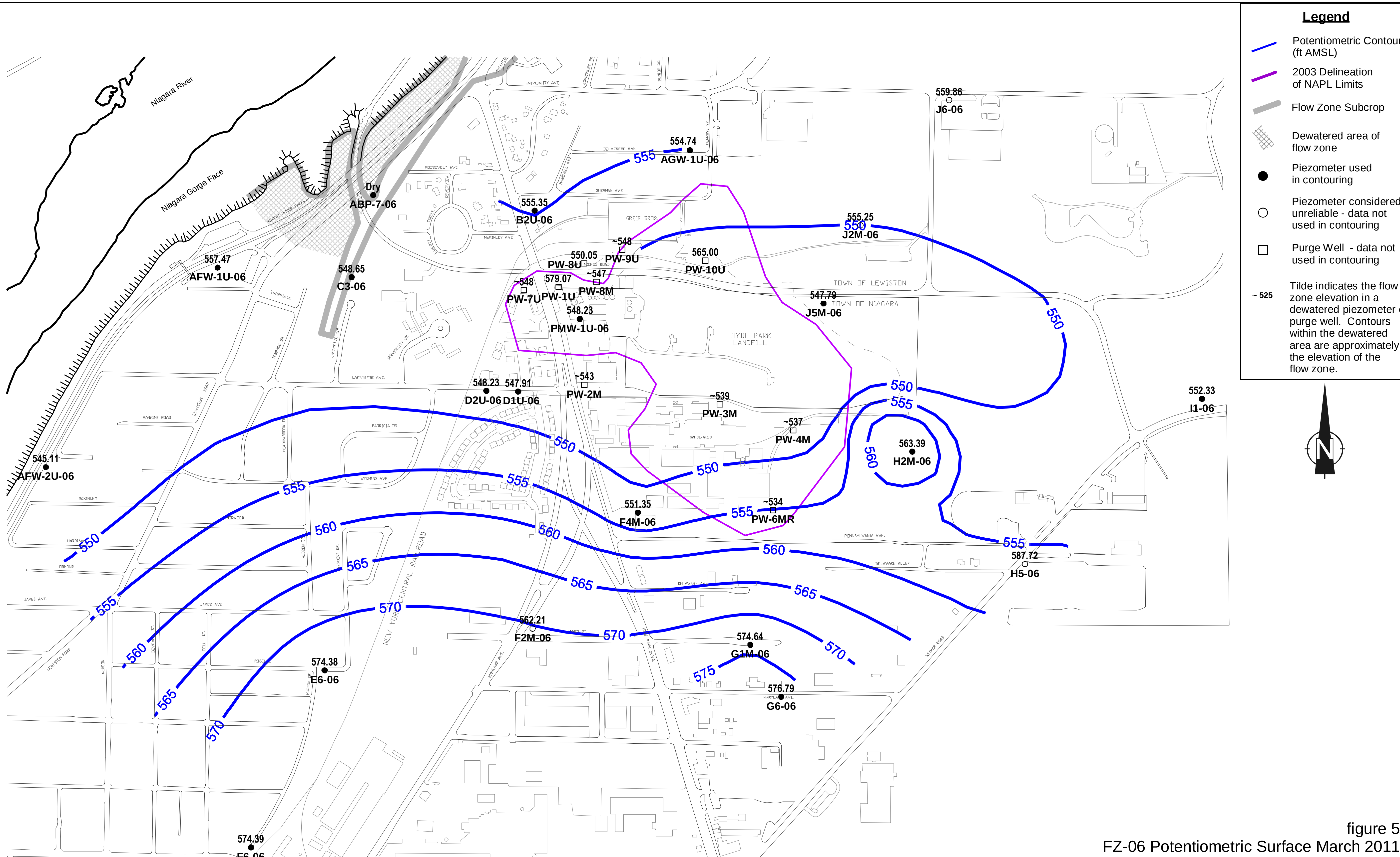

Legend
Potentiometric Contour (ft AMSL)
2003 Delineation of NAPL Limits
Flow Zone Subcrop
Dewatered area of flow zone
Piezometer used in contouring
Piezometer considered unreliable - data not used in contouring
Purge Well - data not used in contouring
~ 525
Tilde indicates the flow zone elevation in a dewatered piezometer or purge well. Contours within the dewatered area are approximately the elevation of the flow zone.
N
Niagara River
Niagara Gorge Face
HYDE PARK LANDFILL
TOWN OF LEWISTON
TOWN OF NIAGARA
NEW YORK CENTRAL RAILROAD
559.86
J6-06
554.74
AGW-1U-06
Dry
ABP-7-06
555.35
B2U-06
555.25
J2M-06
~548
PW-9U
565.00
PW-10U
550.05
PW-8U
~547
PW-8M
557.47
AFW-1U-06
548.65
C3-06
~548
PW-7U
579.07
PW-1U
548.23
PMW-1U-06
547.79
J5M-06
~543
PW-2M
548.23
D2U-06
547.91
D1U-06
~539
PW-3M
~537
PW-4M
552.33
I1-06
563.39
H2M-06
545.11
AFW-2U-06
551.35
F4M-06
~534
PW-6MR
587.72
H5-06
562.21
F2M-06
574.64
G1M-06
574.38
E6-06
576.79
G6-06
574.39
F6-06
550
555
560
565
570
575

figure 5
FZ-06 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

OXY Glenn Springs Holdings, Inc.

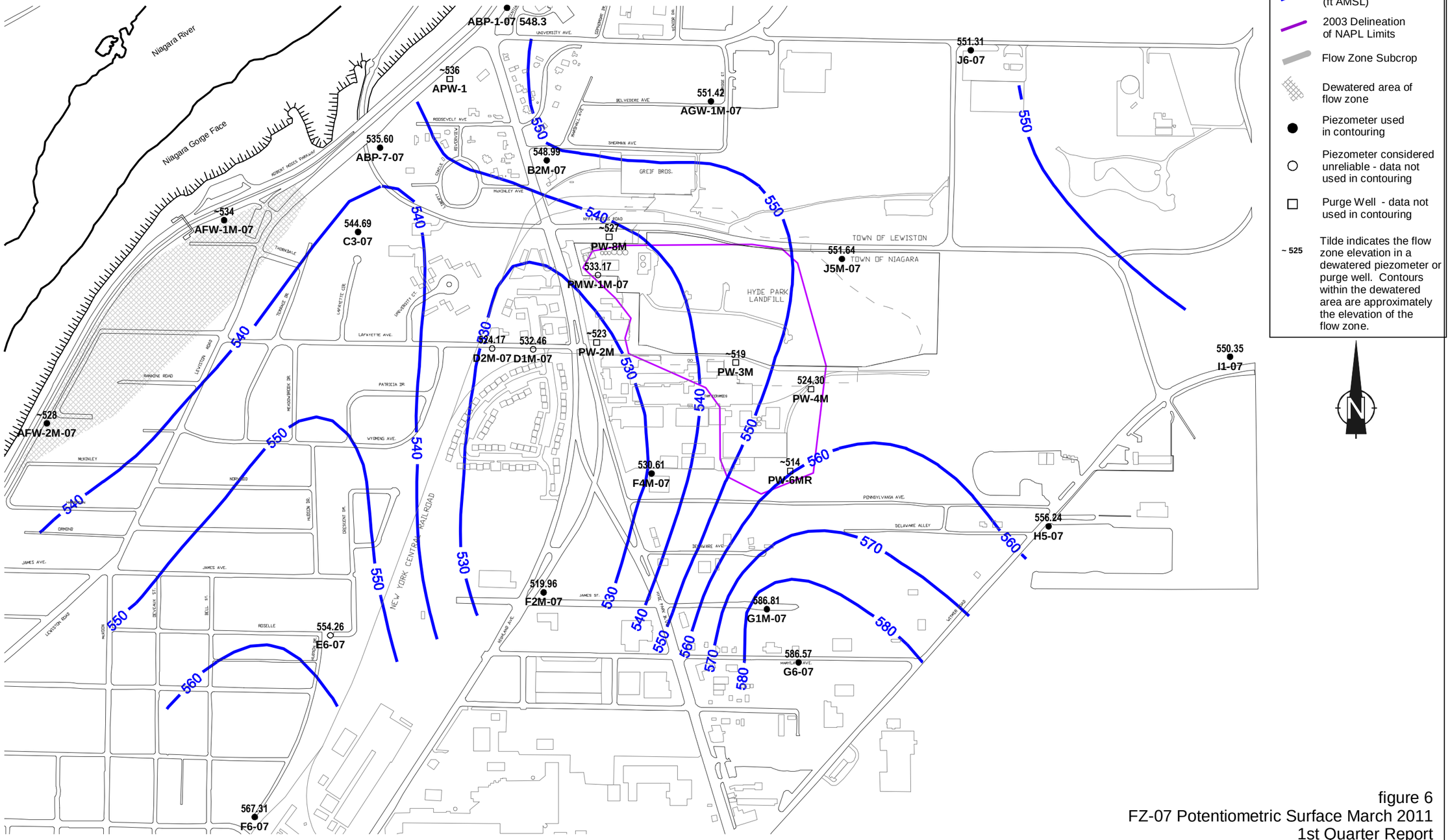


figure 6
FZ-07 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

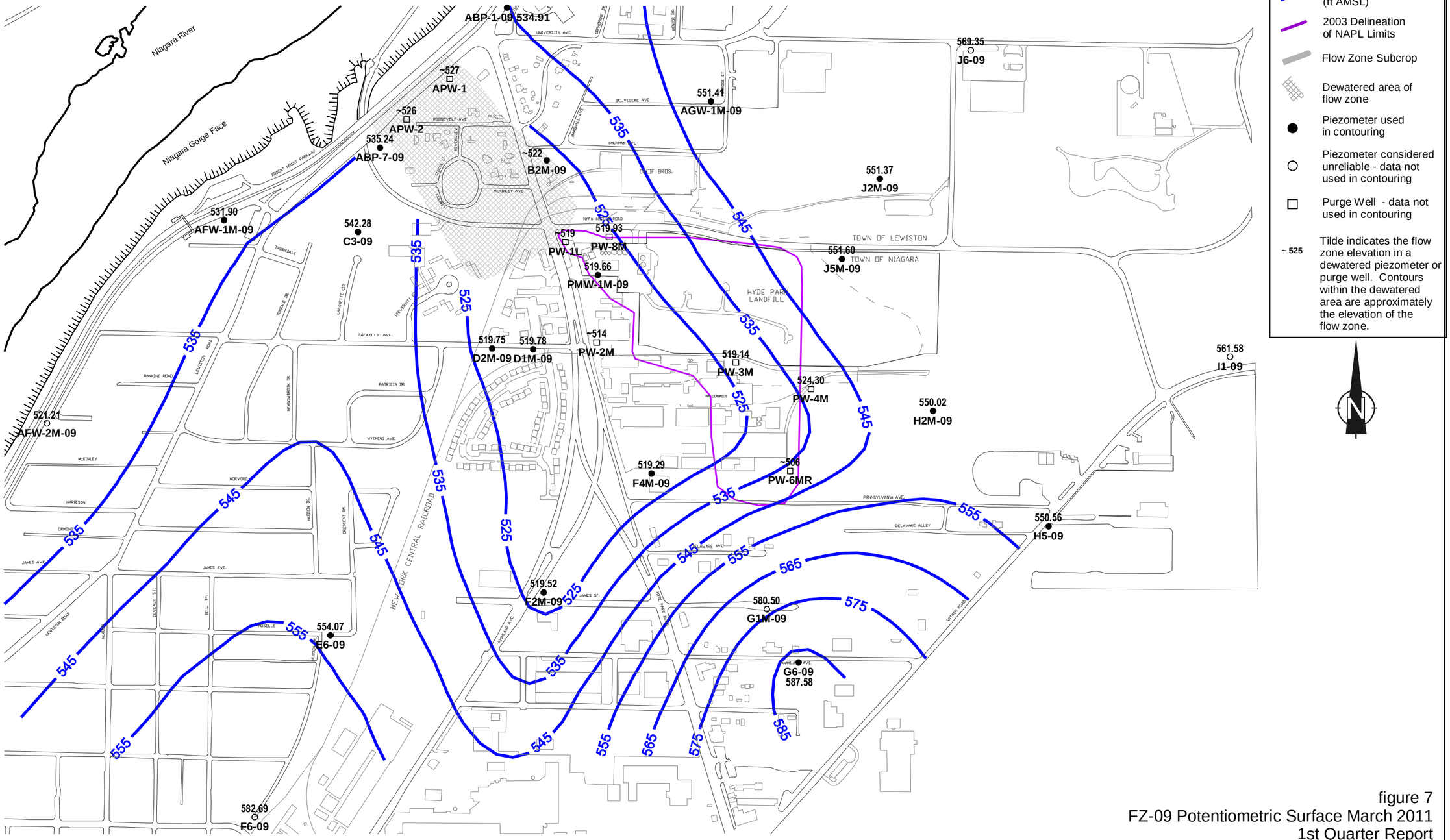
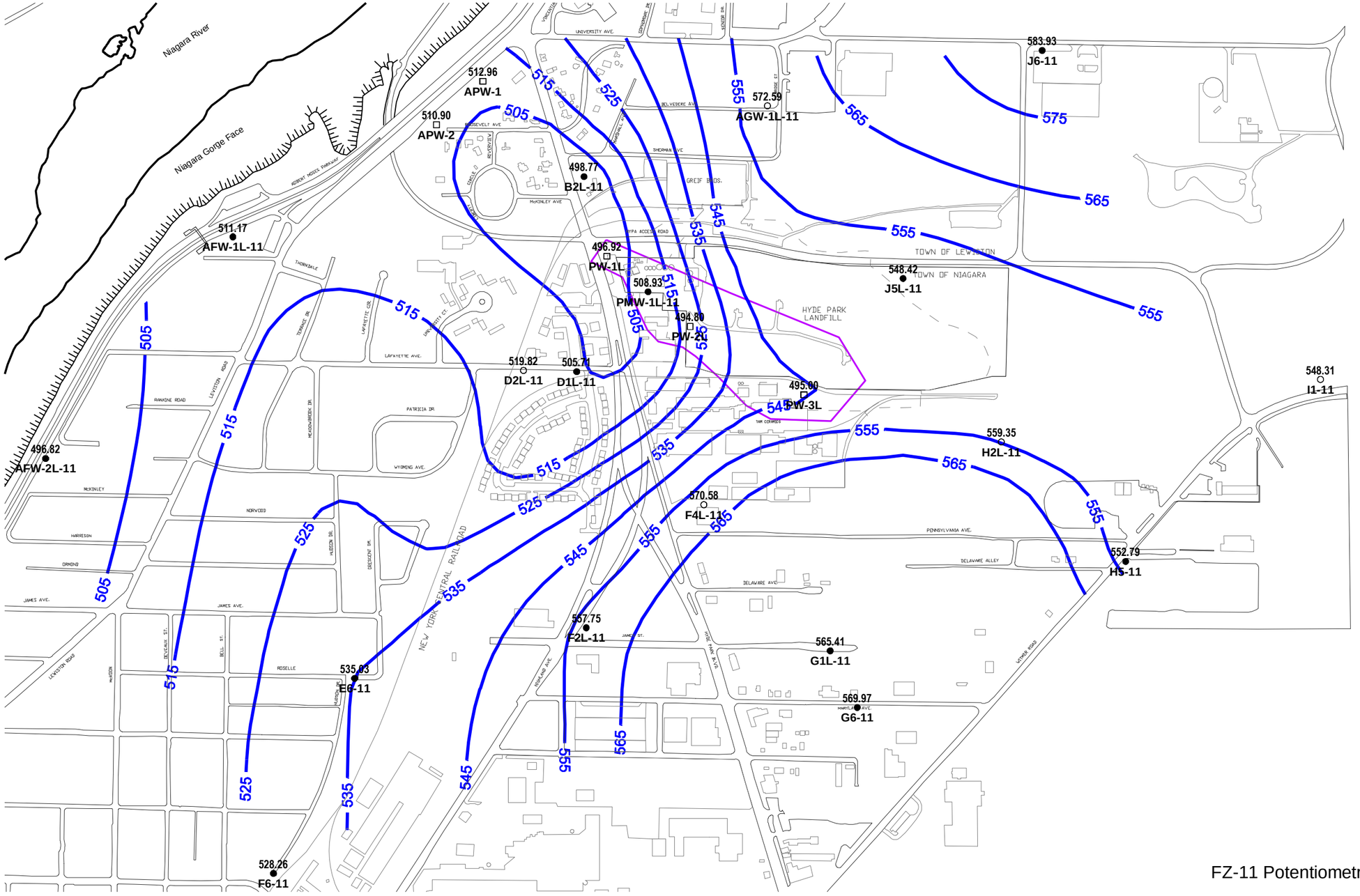


figure 7
FZ-09 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



Legend

- Potentiometric Contour (ft AMSL)
- 2003 Delineation of NAPL Limits
- Flow Zone Subcrop
- Dewatered area of flow zone
- ● Piezometer used in contouring
- ○ Piezometer considered unreliable - data not used in contouring
- □ Purge Well - data not used in contouring
- ~ 525 Tilde indicates the flow zone elevation in a dewatered piezometer or purge well. Contours within the dewatered area are approximately the elevation of the flow zone.

N

figure 8
FZ-11 Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Legend

- Potentiometric Contour (ft AMSL)
- Existing Barrier Collection System
- Overburden Barrier Collection System
- ● Well used in contouring
- ○ Well considered unreliable - data not used in contouring
- ■ OBCWS Wet Wells pumped for recovery. Posted levels indicate the pumping setpoints. Setpoint levels were used for contouring.
- < 525 Indicates the well is dry; the posted value is the bottom of the well screened interval.

Note: Data values may overlap. If illegible, refer to tabulated data in the report.

0ft. 200ft. 400ft. 600ft.

figure 9
Overburden Potentiometric Surface March 2011
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Glenn Springs Holdings, Inc.

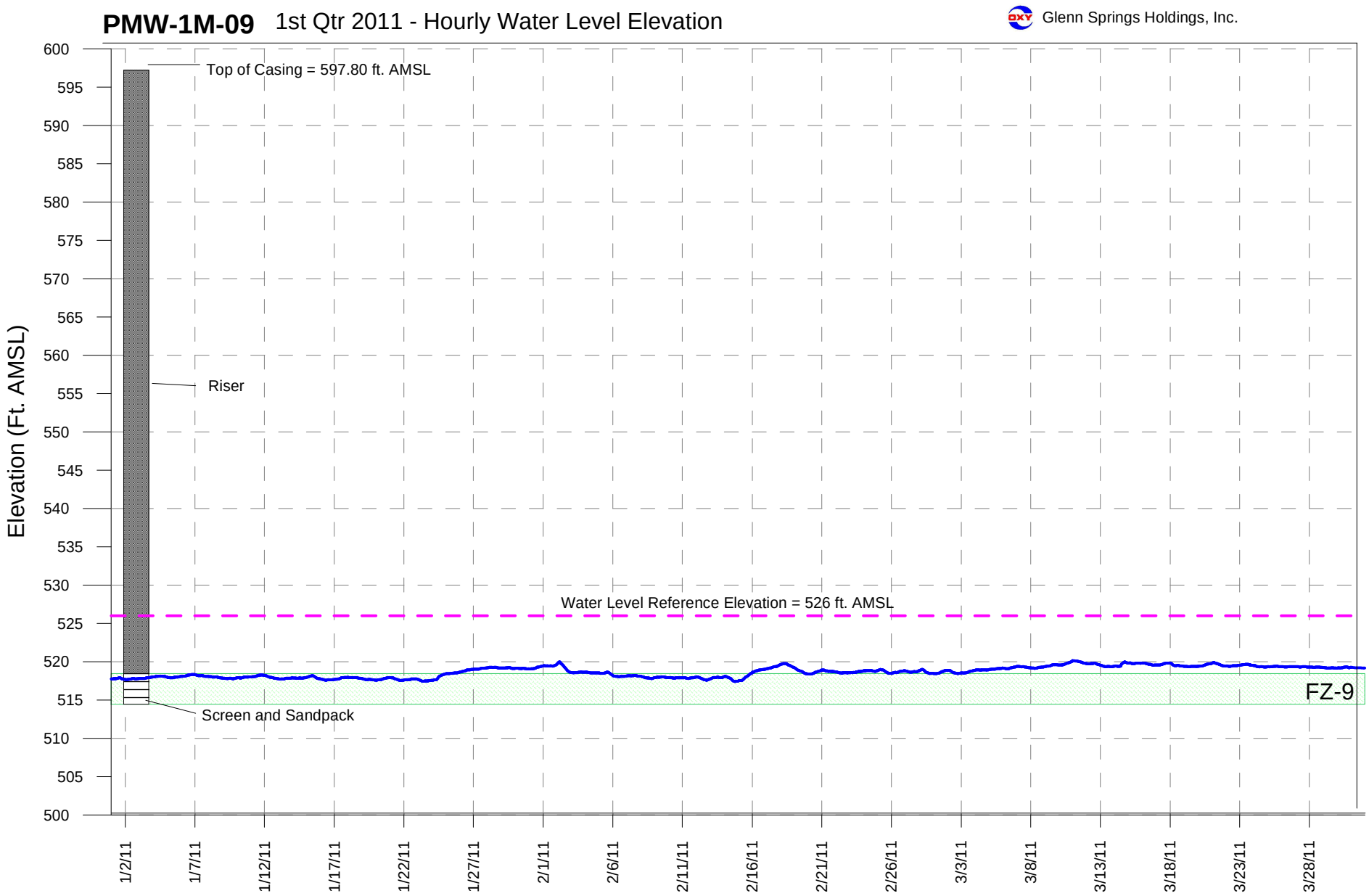

PMW-1M-09
1st Qtr 2011 - Hourly Water Level Elevation
Glenn Springs Holdings, Inc.
Top of Casing = 597.80 ft. AMSL
Riser
Water Level Reference Elevation = 526 ft. AMSL
Screen and Sandpack
FZ-9
Elevation (Ft. AMSL)
600
595
590
585
580
575
570
565
560
555
550
545
540
535
530
525
520
515
510
505
500
1/2/11
1/7/11
1/12/11
1/17/11
1/22/11
1/27/11
2/1/11
2/6/11
2/11/11
2/16/11
2/21/11
2/26/11
3/3/11
3/8/11
3/13/11
3/18/11
3/23/11
3/28/11

figure 10

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Overburden			
CMW-2OB	590.79	0.40	590.39
CMW-3OB	582.13	3.85	578.28
CMW-4OB	574.28	Surcharged	Surcharged
CMW-5OB	583.43	Surcharged	Surcharged
CMW-6OB	571.89	Surcharged	Surcharged
CMW-7OB	611.00	0.18	610.82
CMW-8OB	616.11	2.70	613.41
CMW-9OB	571.76	0.21	571.55
CMW-1OB	576.80	4.41	572.39
CMW-11OB	572.85	1.95	570.90
CMW-12OB	594.74	4.34	590.40
OMW-1	605.28	4.86	600.42
OMW-2	605.99	2.38	603.61
OMW-3	598.63	7.08	591.55
OMW-4R	601.17	10.71	590.46
OMW-5R	591.31	4.42	586.89
OMW-6	587.62	1.62	586.00
OMW-7	592.74	7.22	585.52
OMW-8R2	594.67	7.64	587.03
OMW-9	595.52	7.38	588.14
OMW-10R	595.13	8.27	586.86
OMW-11R	597.52	5.37	592.15
OMW-12R	596.79	4.12	592.67
OMW-13R	601.50	8.85	592.65
OMW-14R	599.64	5.30	594.34
OMW-15	607.48	4.22	603.26
OMW-16R	607.62	3.89	603.73
SC-2	625.61	21.18	604.43
SC-3	638.72	-	-
SC-4	639.35	37.97	601.38
SC-5	634.07	-	-
SC-6	631.15	14.98	616.17
Shallow Bedrock			
CMW-1SH	576.11	10.52	565.59
CMW-2SH	590.51	16.60	573.91
CMW-3SH	581.91	32.37	549.54
CMW-4SH	574.16	6.67	567.49
CMW-5SH	583.36	5.38	577.98
CMW-6SH	572.05	9.15	562.90
CMW-7SH	610.58	8.14	602.44
CMW-8SH	615.95	2.98	612.97
CMW-9SH	571.96	11.64	560.32
CMW-11SH	573.21	8.10	565.11
CMW-12SH	597.02	23.22	573.80
Flow Zone 1			
G1U-01	617.08	11.22	605.86
G6-01	609.24	3.98	605.26
H2U-01	620.92	6.64	614.28
H5-01	617.61	16.94	600.67
I1-01	625.58	21.23	604.35

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 2			
F2U-02	599.89	23.04	576.85
F4U-02	602.32	14.69	587.63
G1-02	616.86	22.93	593.93
G6-02	608.65	16.02	592.63
H2U-02	620.88	25.22	595.66
H5-02	617.47	22.25	595.22
I1-02	625.47	31.02	594.45
J2U-02	609.66	9.98	599.68
J5U-02	606.21	5.92	600.29
J6-02	609.23	7.83	601.40
Flow Zone 4			
AFW-2U-04	593.48	15.22	578.26
D1U-04	593.77	9.80	583.97
D2U-04	590.65	7.11	583.54
E6-04	578.23	12.44	565.79
F2U-04	599.76	20.52	579.24
F4U-04	602.19	14.21	587.98
F6-04	588.06	18.04	570.02
G1U-04	616.96	23.00	593.96
G6-04	609.15	16.14	593.01
H5-04	617.40	22.20	595.20
I1-04	625.30	35.91	589.39
J2U-04	609.42	12.23	597.19
J5U-04	606.05	16.48	589.57
J6-04	609.12	23.33	585.79
Flow Zone 5			
AFW-2U-05	593.33	15.10	578.23
AGW-1U-05	591.80	2.19	589.61
D1U-05	593.51	11.15	582.36
D2U-05	590.56	8.31	582.25
E6-05	578.04	10.34	567.70
F2U-05	599.64	20.07	579.57
F4U-05	602.06	15.43	586.63
F6-05	587.85	17.93	569.92
G6-05	609.13	18.12	591.01
H2M-05	621.59	26.56	595.03
H5-05	617.31	23.34	593.97
I1-05	625.25	68.75	556.50
J2U-05	609.30	27.00	582.30
J5U-05	605.87	23.73	582.14
J6-05	609.02	25.62	583.40
PMW-1U-05	598.00	18.11	579.89

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 6			
ABP-7-06	575.78	Dry	Dry
AFW-1U-06	571.83	14.36	557.47
AFW-2U-06	593.22	48.11	545.11
AGW-1U-06	591.66	36.92	554.74
B2U-06	589.29	33.94	555.35
C3-06	585.78	37.13	548.65
D1U-06	593.25	45.34	547.91
D2U-06	590.38	42.15	548.23
E6-06	577.99	3.61	574.38
F2M-06	599.06	36.85	562.21
F4M-06	602.05	50.70	551.35
F6-06	587.84	13.45	574.39
G1M-06	616.75	42.11	574.64
G6-06	609.09	32.30	576.79
H2M-06	621.42	58.03	563.39
H5-06	617.17	29.45	587.72
I1-06	625.15	72.82	552.33
J2M-06	608.94	53.69	555.25
J5M-06	606.22	58.43	547.79
J6-06	608.93	49.07	559.86
PMW-1U-06	597.92	49.69	548.23
Flow Zone 7			
ABP-1-07	576.44	28.14	548.30
ABP-7-07	575.73	40.13	535.60
AFW-1M-07	571.41	Dry	Dry
AFW-2M-07	593.44	66.83	526.61
AGW-1M-07	592.91	41.49	551.42
B2M-07	589.52	40.53	548.99
C3-07	585.62	40.93	544.69
D1M-07	594.15	61.69	532.46
D2M-07	590.77	66.60	524.17
E6-07	577.91	23.65	554.26
F2M-07	598.91	78.95	519.96
F4M-07	601.91	71.30	530.61
F6-07	587.68	20.37	567.31
G1M-07	616.68	29.87	586.81
G6-07	609.06	22.49	586.57
H5-07	617.05	60.81	556.24
I1-07	625.14	74.79	550.35
J5M-07	606.07	54.43	551.64
J6-07	608.85	57.54	551.31
PMW-1M-07	598.50	65.33	533.17

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 9			
ABP-1-09	575.49	40.58	534.91
ABP-7-09	575.67	40.43	535.24
AFW-1M-09	571.12	39.22	531.90
AFW-2M-09	593.32	72.11	521.21
AGW-1M-09	592.75	41.34	551.41
B2M-09	589.34	68.39	520.95
C3-09	585.00	42.72	542.28
D1M-09	594.02	74.24	519.78
D2M-09	590.66	70.91	519.75
E6-09	577.82	23.75	554.07
F2M-09	598.71	79.19	519.52
F4M-09	601.79	82.50	519.29
F6-09	587.53	4.84	582.69
G1M-09	616.58	36.08	580.50
G6-09	608.98	21.40	587.58
H2M-09	621.32	71.30	550.02
H5-09	616.93	66.37	550.56
I1-09	624.91	63.33	561.58
J2M-09	608.77	57.40	551.37
J5M-09	605.82	54.22	551.60
J6-09	608.76	39.41	569.35
PMW-1M-09	598.34	78.68	519.66
Flow Zone 11			
AFW-1L-11	572.10	60.93	511.17
AFW-2L-11	593.43	96.61	496.82
AGW-1L-11	592.71	20.12	572.59
B2L-11	589.65	90.88	498.77
D1L-11	593.80	88.09	505.71
D2L-11	590.21	70.39	519.82
E6-11	577.72	42.69	535.03
F2L-11	598.94	41.19	557.75
F4L-11	602.22	31.64	570.58
F6-11	587.40	59.14	528.26
G1L-11	616.84	51.43	565.41
G6-11	608.89	38.92	569.97
H2L-11	620.73	61.38	559.35
H5-11	616.81	64.02	552.79
I1-11	624.75	76.44	548.31
J5L-11	607.20	58.78	548.42
J6-11	608.68	24.75	583.93
PMW-1L-11	598.84	89.91	508.93

Notes:
Dry - No water present at the time of measurement.
ft AMSL - Feet Above Mean Sea Level.

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Date	*Effluent*		
	Phenol (mg/L)	***pH (su)***	***Flow (gal)***
01/02/11	-	7.1	369,000
01/03/11	-	7.0	131,000
01/04/11	-	7.6	119,000
01/05/11	0.010 U	7.0	130,000
01/06/11	-	7.2	126,000
01/07/11	-	7.1	83,000
01/10/11	-	7.4	130,000
01/11/11	-	7.2	128,000
01/12/11	0.0064 J	6.9	98,000
01/13/11	-	7.5	111,000
01/14/11	-	7.1	62,000
01/17/11	-	7.1	151,000
01/18/11	-	7.3	122,000
01/19/11	0.019	6.9	94,000
01/20/11	-	7.6	67,000
01/21/11	-	6.7	71,000
01/24/11	-	6.9	105,000
01/25/11	-	7.2	114,000
01/26/11	0.0079 J	7.3	101,000
01/27/11	-	7.1	55,000
01/28/11	-	6.7	61,000
01/30/11	-	7.0	113,000
		Total:	2,541,000

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

	Effluent		
Date	***Phenol (mg/L)***	***pH (su)***	***Flow (gal)***
02/01/11	0.010 U	7.0	98,000
02/03/11	-	6.7	81,000
02/04/11	-	6.6	108,000
02/07/11	-	6.7	121,000
02/08/11	-	6.8	106,000
02/09/11	0.0089 J	6.9	78,000
02/10/11	-	7.2	76,000
02/11/11	-	7.2	72,000
02/14/11	-	7.0	116,000
02/15/11	0.024	6.9	116,000
02/16/11	-	7.2	132,000
02/17/11	-	7.5	140,000
02/18/11	-	6.9	150,000
02/19/11	-	6.9	300,000
02/20/11	-	7.1	312,000
02/21/11	-	7.0	13,000
02/22/11	-	6.8	133,000
02/23/11	0.018	6.9	366,000
02/24/11	-	7.1	107,000
02/25/11	-	7.1	128,000
02/28/11	-	7.1	422,000
		Total:	3,175,000

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Date	*Effluent*		
	Phenol (mg/L)	*pH (su)*	*Flow (gal)*
03/01/11	-	6.9	119,000
03/02/11	0.010	6.9	384,000
03/03/11	-	7.0	134,000
03/04/11	-	7.1	104,000
03/06/11	-	7.0	367,000
03/07/11	-	7.0	425,000
03/08/11	-	7.0	97,000
03/09/11	0.010	7.3	118,000
03/10/11	-	7.2	440,000
03/11/11	-	7.1	203,000
03/13/11	-	7.1	349,000
03/14/11	-	6.9	396,000
03/15/11	-	7.0	119,000
03/16/11	-	7.2	107,000
03/17/11	0.0078	7.2	431,000
03/18/11	-	7.1	79,000
03/20/11	-	7.2	345,000
03/21/11	-	6.9	399,000
03/22/11	0.011	6.9	73,000
03/23/11	-	6.8	111,000
03/24/11	-	7.2	283,000
03/25/11	-	7.0	104,000
03/27/11	-	7.0	256,000
03/28/11	-	6.9	151,000
03/29/11	-	6.9	118,000
03/30/11	0.010	6.8	97,000
03/31/11	-	7.0	319,000
		Total:	6,128,000
		1st Qtr 2011 Total:	**11,844,000**

Notes:

J	Estimated at associated value.
gal	Gallons.
mg/L	Milligram per liter.
su	Standard unit.
U	Non-detect at associated value.
-	Not available.

TABLE 3

ANALYTICAL RESULTS SUMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Effluent

Parameter	Units	01/05/11	01/12/11	01/19/11	01/26/11	02/01/11	02/09/11	02/15/11	02/23/11
Volatiles									
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Benzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Bromoform	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Bromomethane (Methyl Bromide)	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Carbon disulfide	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	3.7
Carbon tetrachloride	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Chlorobenzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Chloroethane	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Chloromethane (Methyl Chloride)	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Ethylbenzene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Methylene chloride	µg/L	1.0 U	0.67 J	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Styrene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Toluene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Trichloroethene	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Vinyl acetate	µg/L	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Vinyl chloride	µg/L	54	49	49	55	58	100	86	66
Xylene (total)	µg/L	3.0 U	3.0 U	12 U	12 U	15 U	15 U	15 U	7.5 U

ANALYTICAL RESULTS SUMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

Effluent

Parameter	Units	03/02/11	03/09/11	03/17/11	03/22/11	03/30/11
1,1,1-Trichloroethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,1-Dichloroethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,1-Dichloroethene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,2-Dichloroethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,2-Dichloropropane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
2-Chlorotoluene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
3-Chlorotoluene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
4-Chlorotoluene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Benzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Bromodichloromethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Bromoform	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Carbon disulfide	µg/L	2.1 J	5.0 U	1.8 J	10 U	5.5 J
Carbon tetrachloride	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Chlorobenzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Chloroethane	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Ethylbenzene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Methylene chloride	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
m-Monochlorobenzotrifluoride	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
o-Monochlorobenzotrifluoride	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
p-Monochlorobenzotrifluoride	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Styrene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Tetrachloroethene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Toluene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Trichloroethene	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Trichlorofluoromethane (CFC-11)	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Vinyl acetate	µg/L	7.5 U	5.0 U	5.0 U	10 U	10 U
Vinyl chloride	µg/L	120	130	180	190	220
Xylene (total)	µg/L	22 U	15 U	15 U	30 U	30 U

Notes:

J	Estimated at associated value.
U	Non-detect at associated value.
µg/L	Microgram per liter.
-	Not available/not applicable.

TABLE 4

ANALYTICAL RESULTS SUMARY
QUARTERLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2011
HYDE PARK RRT PROGRAM

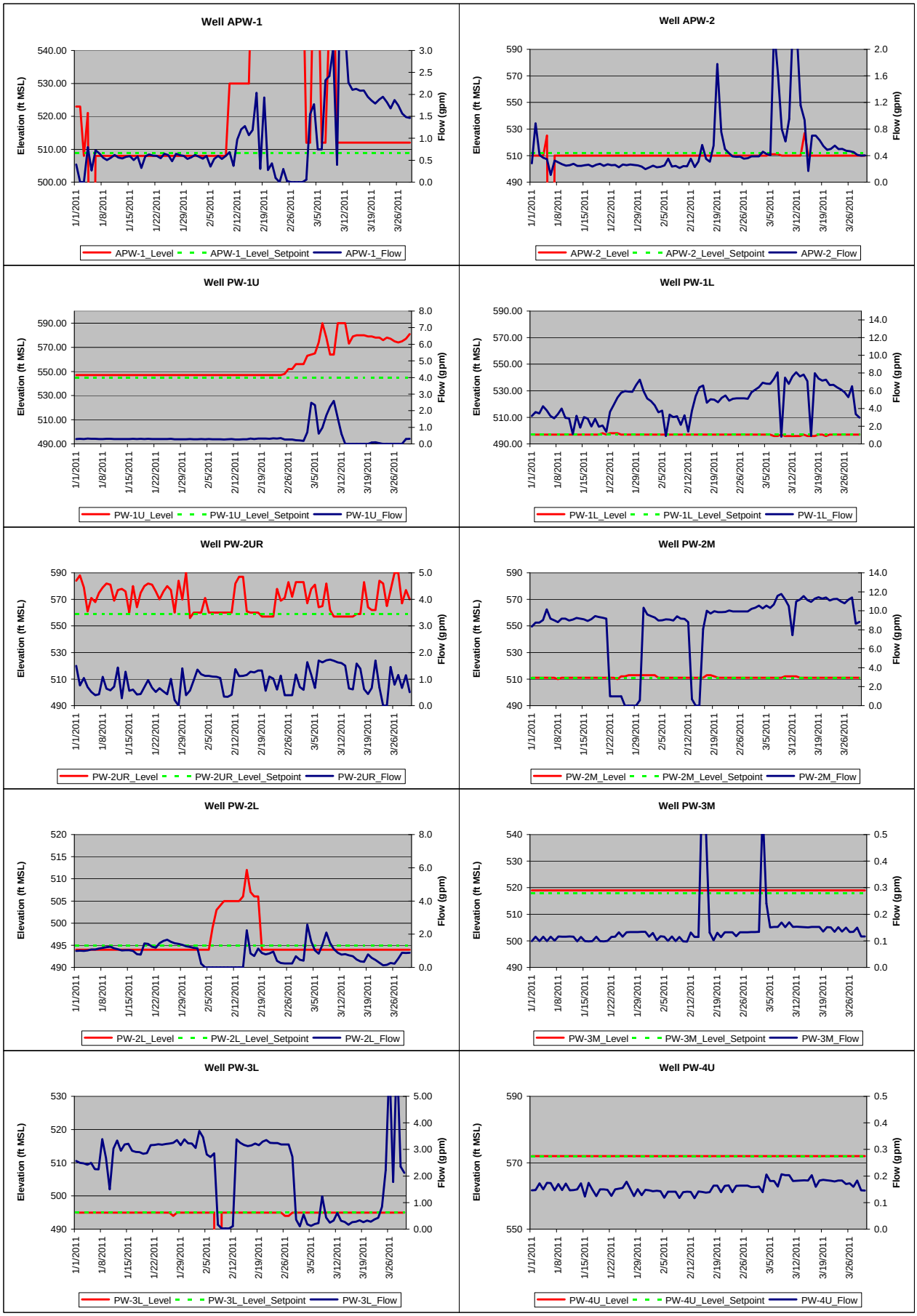
Effluent

	Sample ID:	*HP32311 EFF*
	Sample Date:	*03/23/11*
Parameter	***Units***	
Phosphorus, Total	mg/L	0.15
Vinyl chloride	µg/L	250

Notes:
mg/L Milligrams per liter.
µg/L Micrograms per liter.

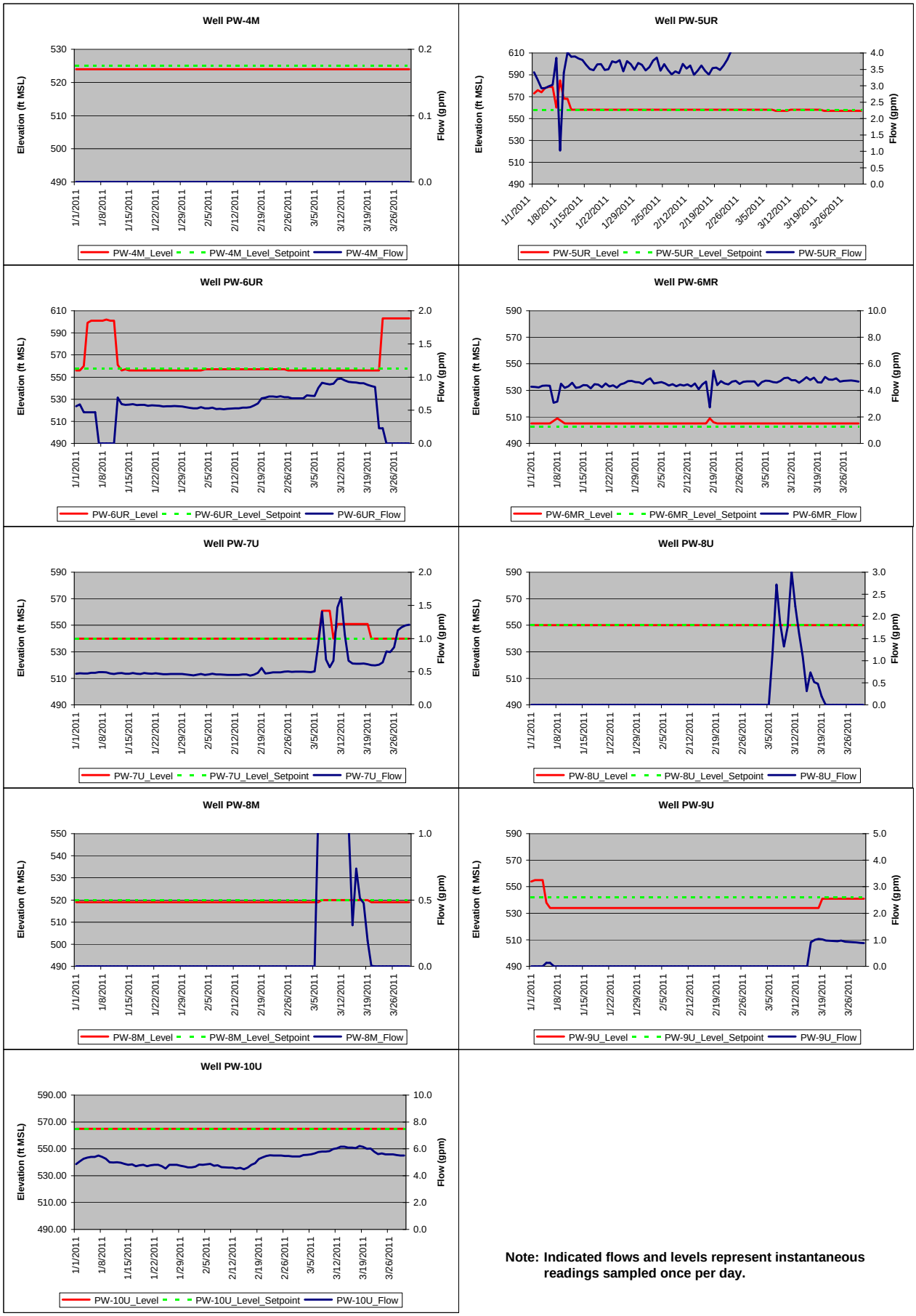
ATTACHMENT 1

FIRST QUARTER 2011 - PUMPING LEVELS AND FLOWS
HYDE PARK



ATTACHMENT 1

FIRST QUARTER 2011 - PUMPING LEVELS AND FLOWS
HYDE PARK



Note: Indicated flows and levels represent instantaneous readings sampled once per day.