



# Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

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

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7601 Old Channel Trail  
Montague, MI 49437

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January 29, 2021

Reference No. 001069

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

Mr. Brian P. Sadowski  
NYSDEC  
270 Michigan Avenue  
Buffalo, NY 14203-2999

Dear Ms. Kondrk and Mr. Sadowski:

**Re: Quarterly Operations Report - Fourth Quarter 2020  
Hyde Park Remedial Program  
Bedrock and Overburden Monitoring Programs  
NYSDEC Site No. 932021**

In accordance with the July 2006 "Performance Monitoring Plan" (PMP), the following is the Quarterly Operations Report for the Hyde Park Remedial Program for the period October 1, 2020 through December 31, 2020. A total of 3.41 million gallons of aqueous phase liquid (APL) was collected, treated, and discharged in compliance with the Site's City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial Users (SIU) Wastewater Discharge Permit #49. One drum (approximately 600 pounds) of non-aqueous phase liquid (NAPL), five drums (approximately 1,200 pounds) of personal protective equipment (PPE), and two cargo tanks (approximately 76,980 pounds) of spent carbon were shipped for disposal this quarter. The potentiometric contours are consistent with previous interpretations. Flow zones 6, 7, and 9 have dewatered areas between the landfill and the gorge face. The current data continue to support the interpretation of effective hydraulic containment and inward gradients.

The performance monitoring data are presented as follows:

- Figures 1-9: Showing the potentiometric surface for the bedrock flow zones and overburden
- Figure 10: Showing continuously recorded water levels at flow zone 9 piezometer PMW-1M-09
- Table 1: Water level elevation summary
- Tables 2, 3, and 4: Daily, weekly, and quarterly treatment system effluent monitoring data
- Attachment A: Purge well performance graphs indicating daily level and flow information

The continuously recorded water levels for the flow zone 9 piezometer PWM-1M-09 for the fourth quarter 2020 are presented on Figure 10. These water levels were less than 526 feet above mean sea level (AMSL) throughout the quarter, indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated throughout the quarter.

The pumping wells were operational and functioning as designed during the fourth quarter 2020. The pumps are operated to maintain a water level between a typical range of 2.5 feet above (pump on) and 2.5 feet below (pump off) a specific setpoint in accordance with the setpoint range defined in the Operation & Maintenance

Manual. The following minor operational and setpoint issues were investigated and resolved during the fourth quarter of 2020:

- The water level in PW-1U exceeded setpoint range periodically from October 2 through October 30 due to a faulty pump. The water level returned to within setpoint range on October 31. The pump was replaced on November 4.
- The water level in PW-2M exceeded setpoint range from October 12 through the end of the quarter. Troubleshooting has indicated a faulty variable frequency drive (VFD). The VFD and pump size are currently being reevaluated. In the interim, the well was redeveloped. Redevelopment occurred from December 21 through December 23 and on December 30, 2020. The VFD and potentially the pump will be replaced in the first quarter of 2021.
- The water level in PW-4U exceeded setpoint range from October 2 through October 4 due to a pump fault. The pump was reset and the water level returned to within setpoint range on October 5.
- The water levels in the following wells exceeded setpoint range due to a false leak detection:
  - PW-8U exceeded setpoint range on October 21 and returned to within setpoint range on October 22.
  - PW-9U exceeded setpoint range on October 21 and October 22 and returned to within setpoint range on October 23.
- The water level in PW-9U exceeded setpoint range on November 7 and November 8 due to an unknown pump fault. The water level returned to within setpoint range on November 9.
- The water level in APW-1 exceeded setpoint range on October 20 and October 21 due to a pump fault and returned to within setpoint range on October 22.

PW-1L was out of service from December 22 through December 30 for redevelopment. The well was returned to service on January 22, 2021, following replacement of the pump and motor.

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/adh/8  
Encl.

cc: G. May, NYSDEC  
A. Zwack, NYSDOH  
J. Robinson, NYSDOH

J. Pentilchuk, GHD  
D. Hoyt, GHD  
M. Popek, GHD

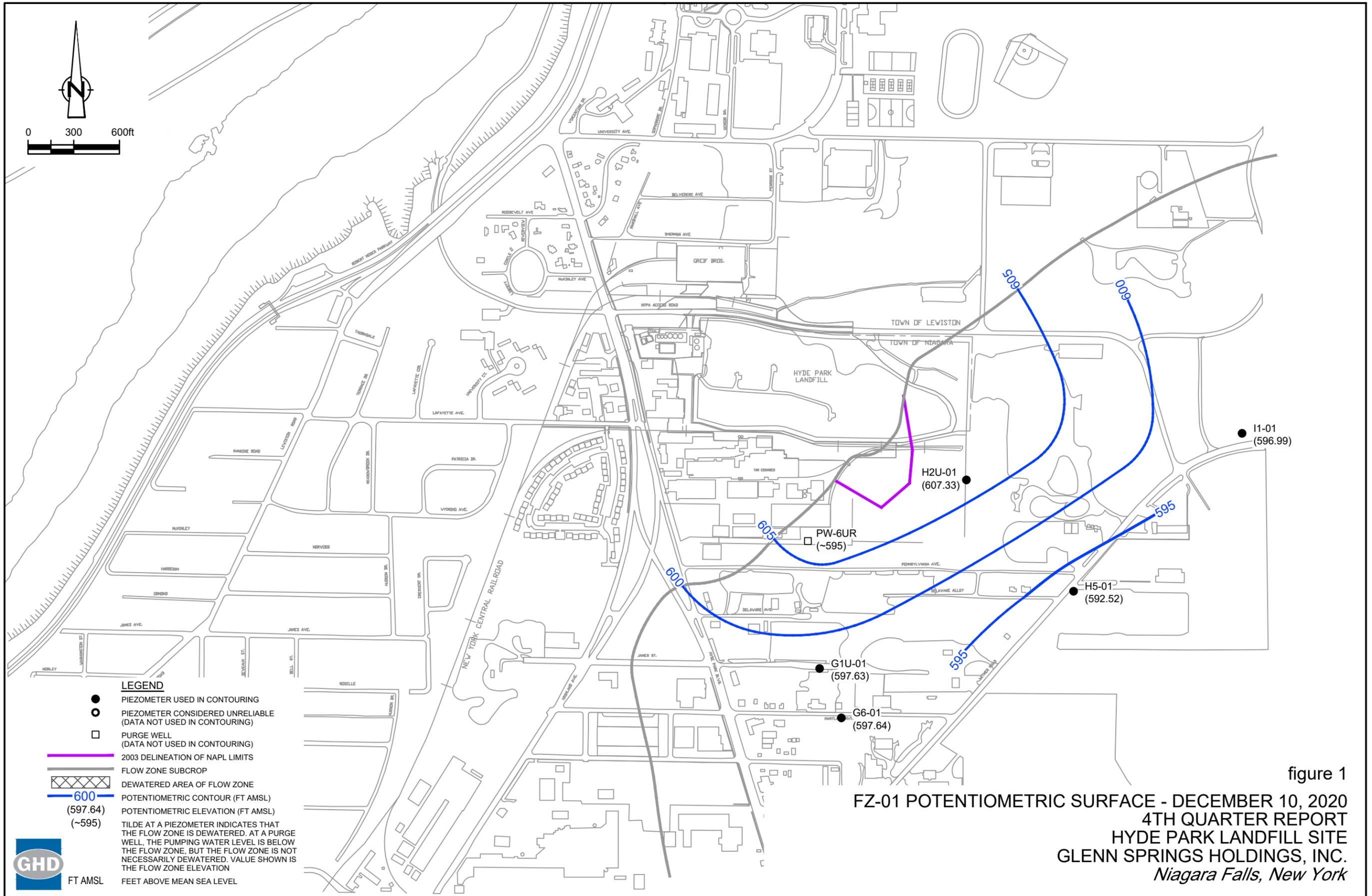


figure 1  
 FZ-01 POTENTIOMETRIC SURFACE - DECEMBER 10, 2020  
 4TH QUARTER REPORT  
 HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 Niagara Falls, New York

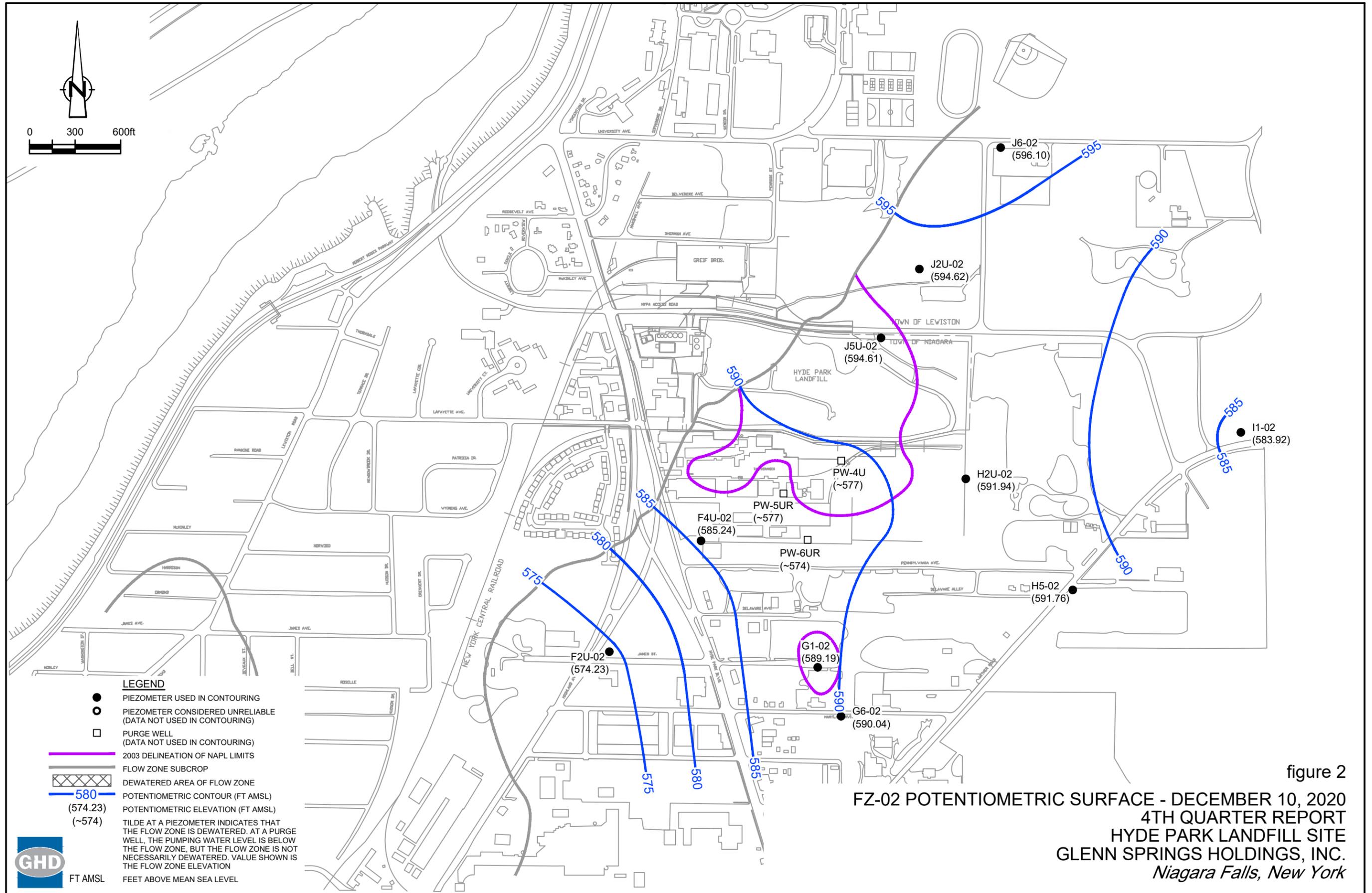
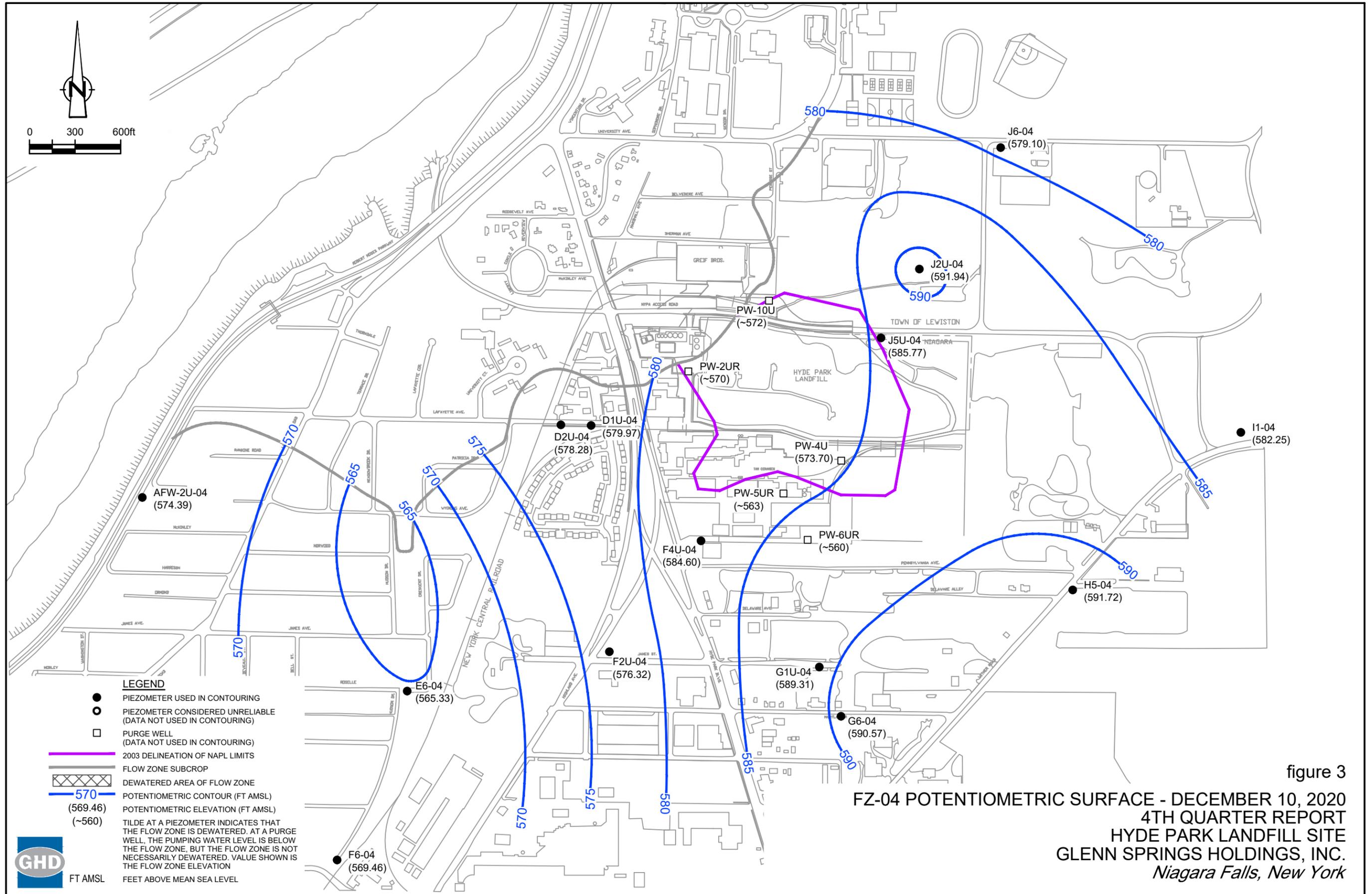
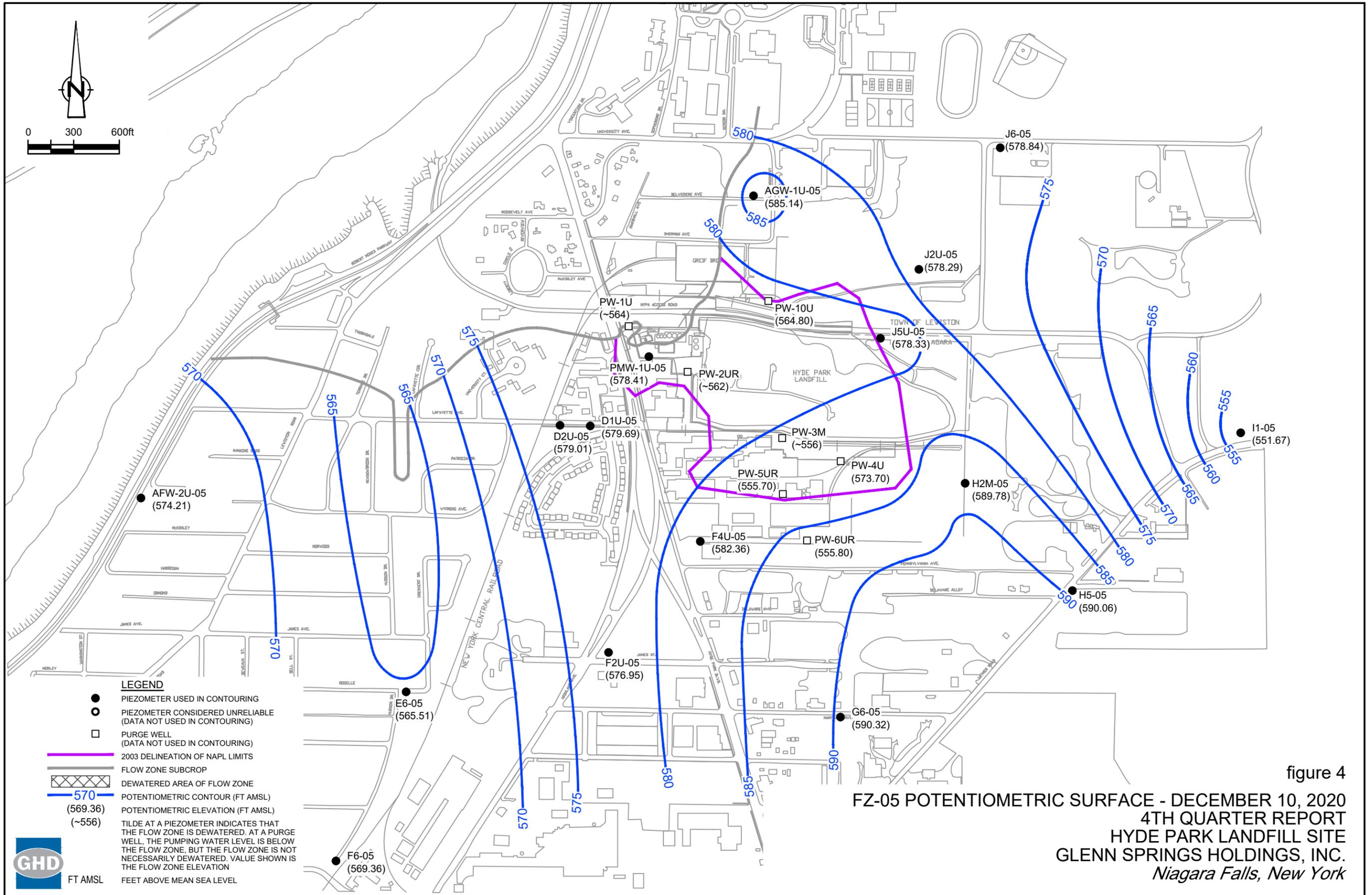
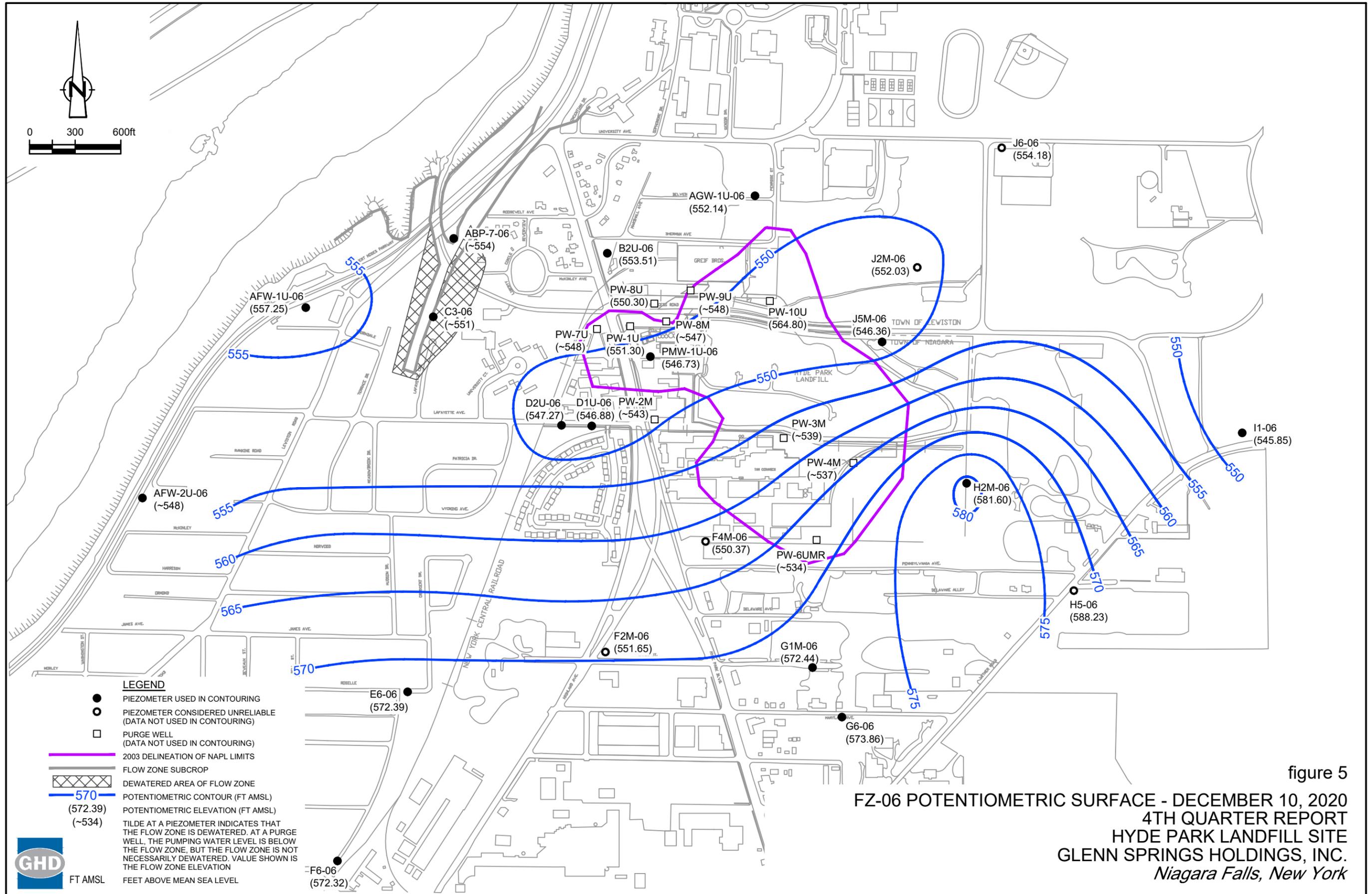
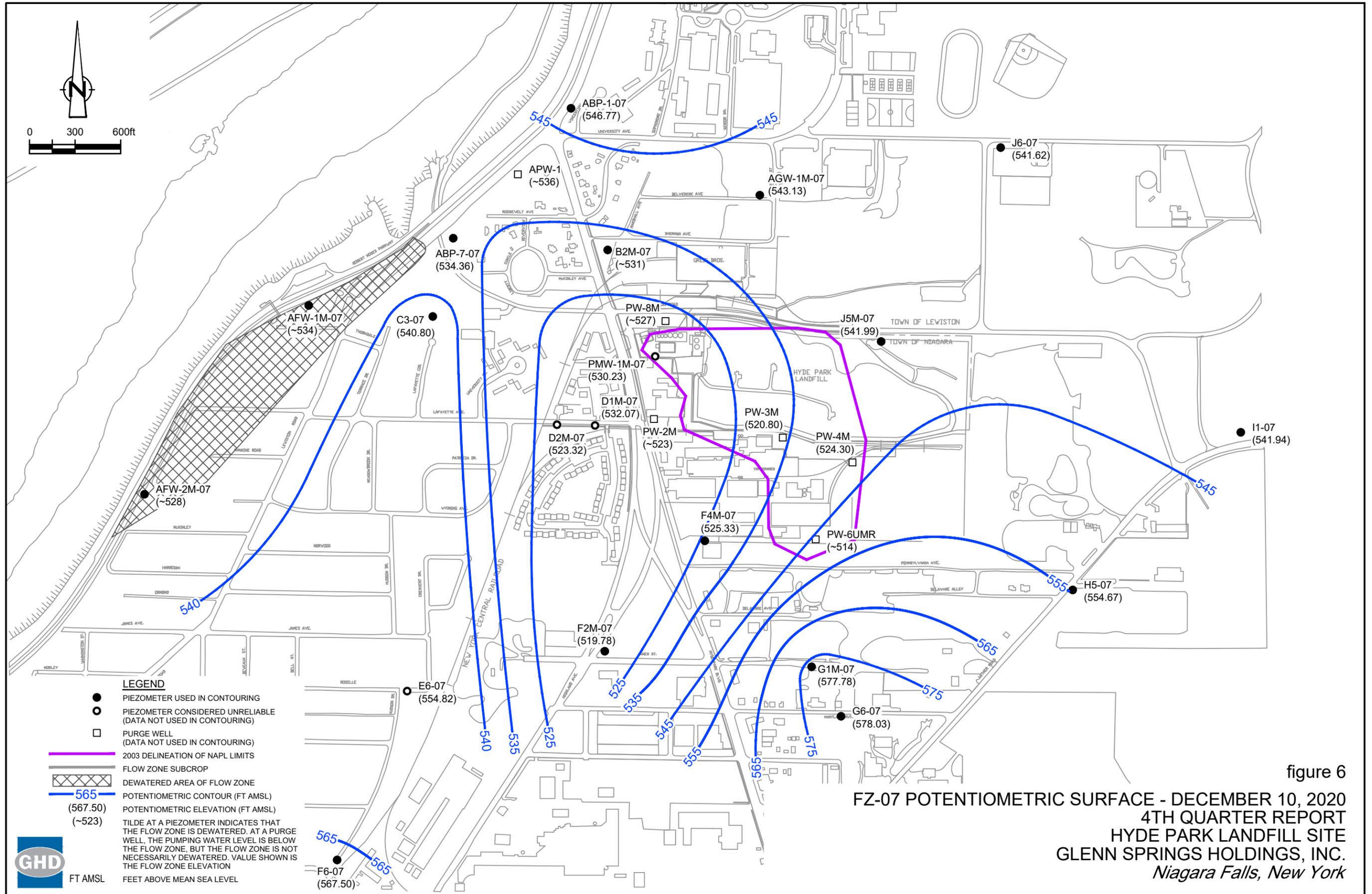


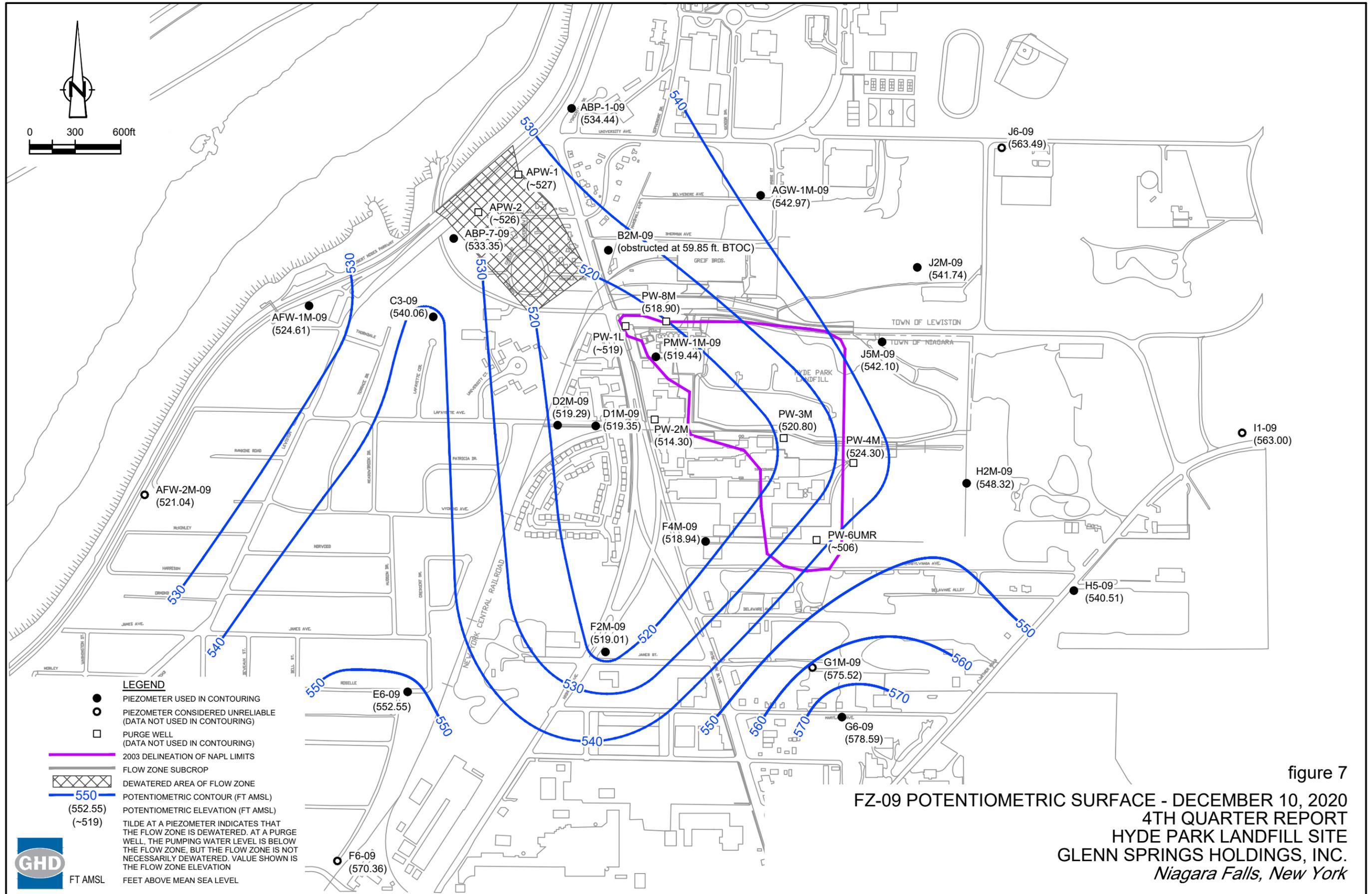
figure 2  
 FZ-02 POTENTIOMETRIC SURFACE - DECEMBER 10, 2020  
 4TH QUARTER REPORT  
 HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 Niagara Falls, New York











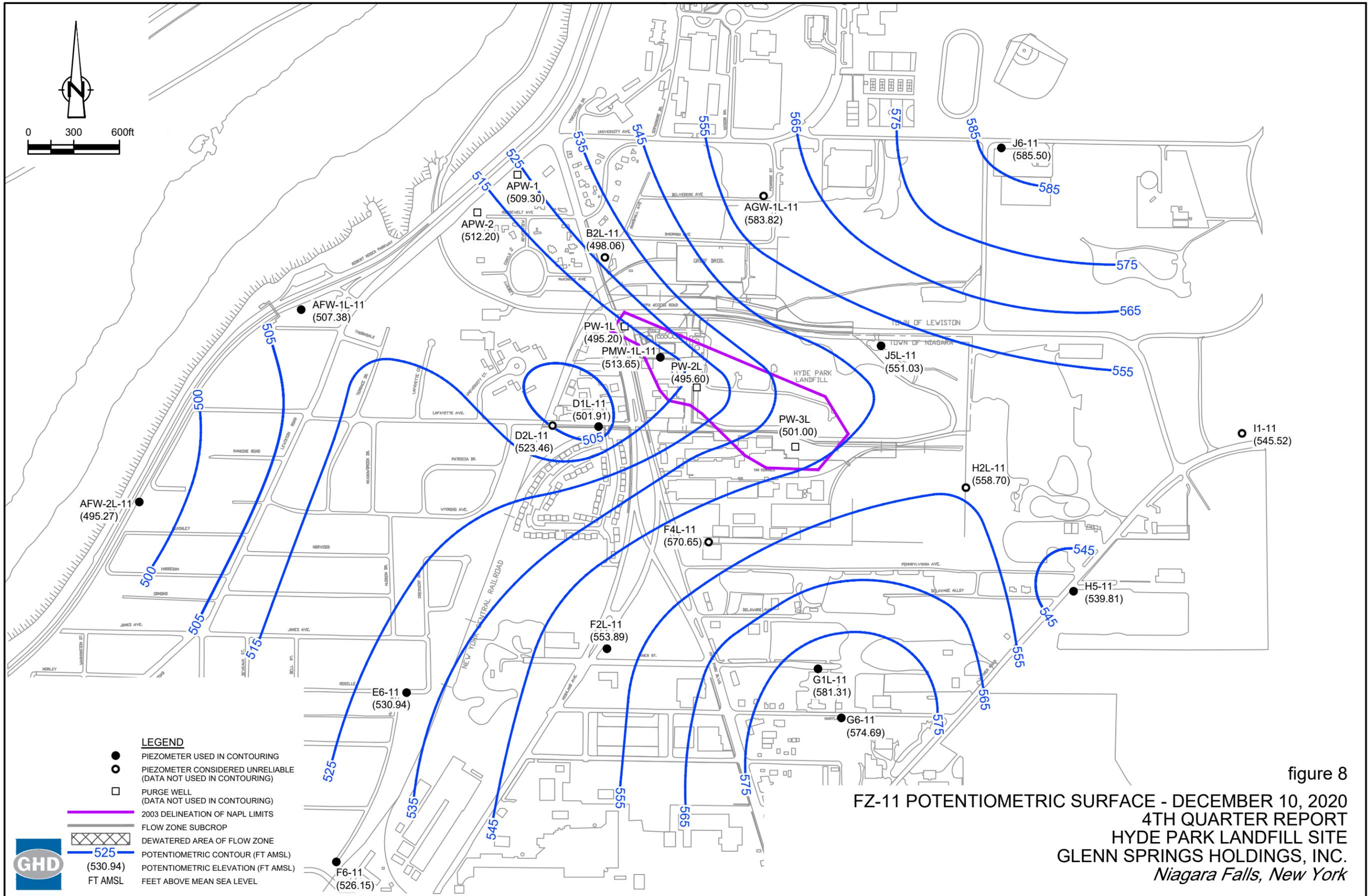


figure 8  
 FZ-11 POTENTIOMETRIC SURFACE - DECEMBER 10, 2020  
 4TH QUARTER REPORT  
 HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 Niagara Falls, New York

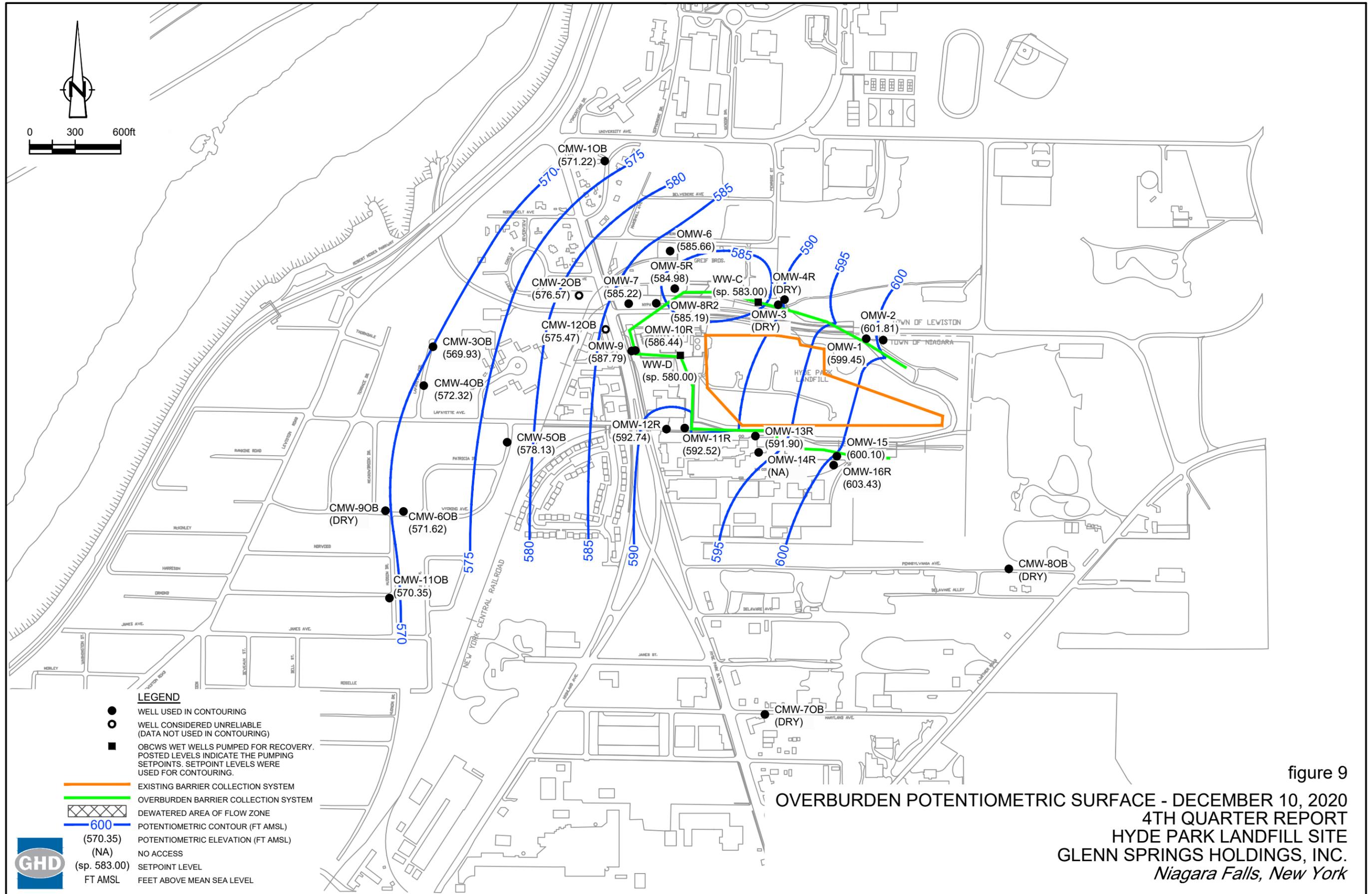


figure 9

OVERBURDEN POTENTIOMETRIC SURFACE - DECEMBER 10, 2020  
 4TH QUARTER REPORT  
 HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 Niagara Falls, New York

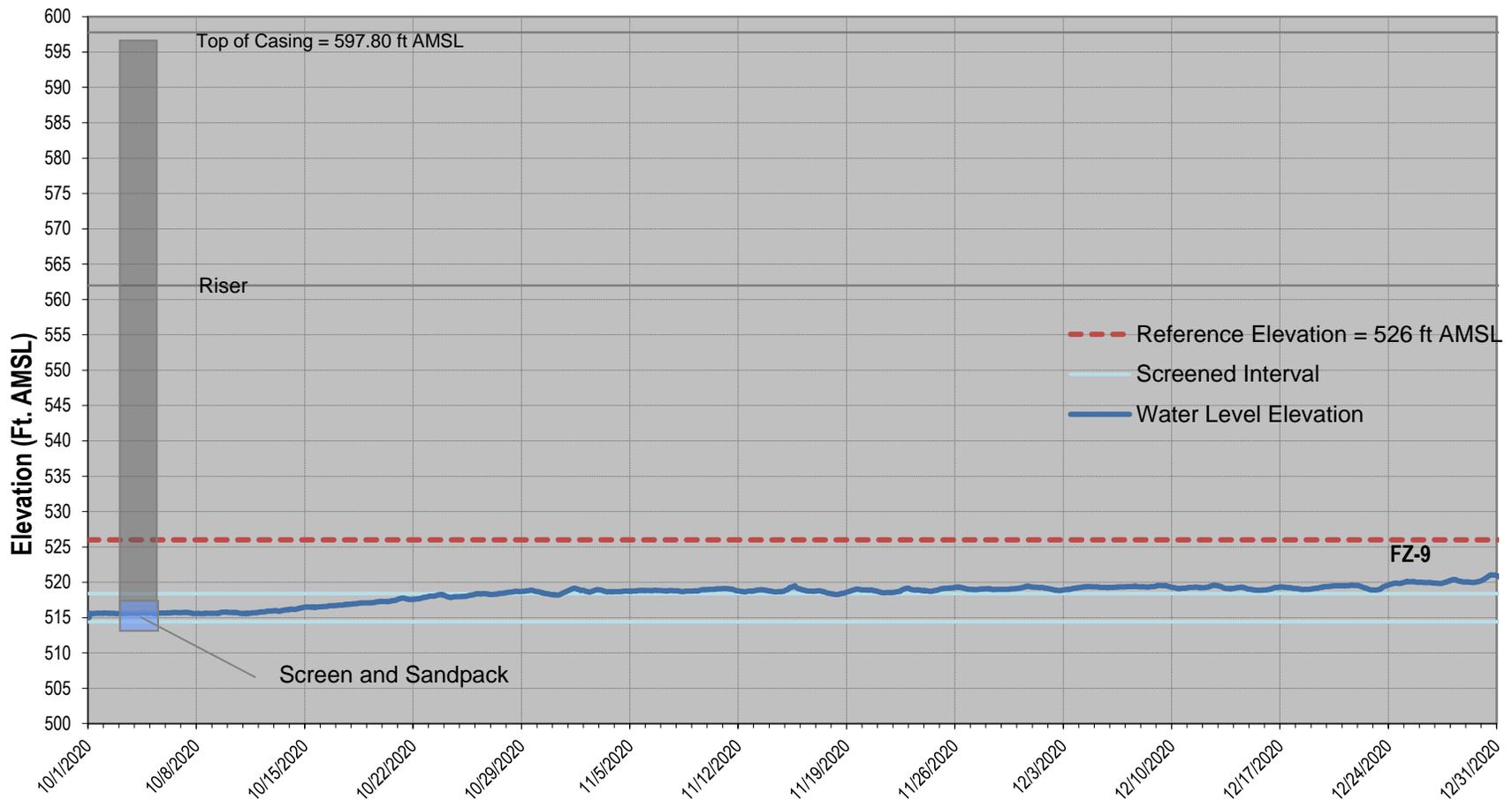


figure 10

PMW-1M-09 4th Quarter 2020 - Hourly Water Level Elevation  
 4th Quarter Report  
 Hyde Park Landfill Site  
 Glenn Springs Holdings, Inc.



**Glenn Springs Holdings, Inc.**

A subsidiary of Occidental Petroleum

Table 1

**Water Level Elevation Summary  
Fourth Quarter - 2020  
Hyde Park RRT Program**

<b>Well</b>	<b>Reference Elevation (ft AMSL)</b>	<b>Depth to Water (ft)</b>	<b>Water Level Elevation (ft AMSL)</b>
<b>Overburden</b>			
CMW-2OB	590.79	14.22	576.57
CMW-3OB	582.13	12.20	569.93
CMW-4OB	574.28	1.96	572.32
CMW-5OB	583.43	5.30	578.13
CMW-6OB	571.89	0.27	571.62
CMW-7OB	611.00	Dry	-
CMW-8OB	616.11	Dry	-
CMW-9OB	571.76	Dry	-
CMW-1OB	576.80	5.58	571.22
CMW-11OB	572.85	2.50	570.35
CMW-12OB	594.74	19.27	575.47
MH20	605.87	4.68	601.19
MH21	599.77	6.14	593.63
MH22	593.37	Dry	-
MH23	587.05	12.39	574.66
MH24	582.57	10.02	572.55
MH25	583.82	Dry	-
MH26	584.48	Dry	-
MH27	586.12	Dry	-
MH28	585.23	16.89	568.34
MH29	604.58	Dry	-
MH30	599.49	10.15	589.34
MH31	590.10	9.58	580.52
MH32	592.01	9.62	582.39
MH33	592.51	8.72	583.79
MH34	598.34	7.19	591.15
MH35	605.69	6.53	599.16
MH35A	605.69	7.47	598.22
OMW-1	605.28	5.83	599.45
OMW-2	605.99	4.18	601.81
OMW-3	598.63	Dry	-
OMW-4R	601.17	Dry	-
OMW-5R	591.31	6.33	584.98
OMW-6	587.62	1.96	585.66
OMW-7	592.74	7.52	585.22
OMW-8R2	594.67	9.48	585.19
OMW-9	595.27	7.48	587.79
OMW-10R	595.13	8.69	586.44
OMW-11R	597.52	5.00	592.52
OMW-12R	596.71	3.97	592.74
OMW-13R	601.50	9.60	591.90
OMW-14R	599.64	-	-
OMW-15	607.48	7.38	600.10
OMW-16R	607.62	4.19	603.43
SC-2	625.61	22.92	602.69
SC-3	638.72	40.53	598.19
SC-4	639.35	39.22	600.13
SC-5	634.07	31.62	602.45
SC-6	631.15	20.08	611.07

Table 1

**Water Level Elevation Summary  
Fourth Quarter - 2020  
Hyde Park RRT Program**

<b>Well</b>	<b>Reference Elevation (ft AMSL)</b>	<b>Depth to Water (ft)</b>	<b>Water Level Elevation (ft AMSL)</b>
<b>Shallow Bedrock</b>			
CMW-1SH	576.11	13.00	563.11
CMW-2SH	590.51	19.28	571.23
CMW-3SH	581.91	28.64	553.27
CMW-4SH	574.16	7.93	566.23
CMW-5SH	583.36	8.40	574.96
CMW-6SH	572.05	10.50	561.55
CMW-7SH	610.58	14.54	596.04
CMW-8SH	615.95	9.73	606.22
CMW-9SH	571.96	12.10	559.86
CMW-11SH	573.21	8.04	565.17
CMW-12SH	597.02	25.36	571.66
<b>Flow Zone 1</b>			
G1U-01	617.08	19.45	597.63
G6-01	609.24	11.60	597.64
H2U-01	620.92	13.59	607.33
H5-01	617.61	25.09	592.52
I1-01	625.58	28.59	596.99
<b>Flow Zone 2</b>			
F2U-02	599.89	25.66	574.23
F4U-02	602.32	17.08	585.24
G1-02	616.86	27.67	589.19
G6-02	608.65	18.61	590.04
H2U-02	620.88	28.94	591.94
H5-02	617.47	25.71	591.76
I1-02	625.47	41.55	583.92
J2U-02	609.66	15.04	594.62
J5U-02	606.21	11.60	594.61
J6-02	609.23	13.13	596.10
<b>Flow Zone 4</b>			
AFW-2U-04	593.48	19.09	574.39
D1U-04	593.77	13.80	579.97
D2U-04	590.65	12.37	578.28
E6-04	578.23	12.90	565.33
F2U-04	599.76	23.44	576.32
F4U-04	602.19	17.59	584.60
F6-04	588.06	18.60	569.46
G1U-04	616.96	27.65	589.31
G6-04	609.15	18.58	590.57
H5-04	617.40	25.68	591.72
I1-04	625.30	43.05	582.25
J2U-04	609.42	17.48	591.94
J5U-04	606.05	20.28	585.77
J6-04	609.12	30.02	579.10

Table 1

**Water Level Elevation Summary  
Fourth Quarter - 2020  
Hyde Park RRT Program**

Well	Reference Elevation (ft AMSL)	Depth to Water (ft)	Water Level Elevation (ft AMSL)
<b>Flow Zone 5</b>			
AFW-2U-05	593.33	19.12	574.21
AGW-1U-05	591.80	6.66	585.14
D1U-05	593.51	13.82	579.69
D2U-05	590.56	11.55	579.01
E6-05	578.04	12.53	565.51
F2U-05	599.64	22.69	576.95
F4U-05	602.06	19.70	582.36
F6-05	587.85	18.49	569.36
G6-05	609.13	18.81	590.32
H2M-05	621.59	31.81	589.78
H5-05	617.31	27.25	590.06
I1-05	625.25	73.58	551.67
J2U-05	609.30	31.01	578.29
J5U-05	605.87	27.54	578.33
J6-05	609.02	30.18	578.84
PMW-1U-05	598.00	19.59	578.41
<b>Flow Zone 6</b>			
ABP-7-06	575.78	Dry	-
AFW-1U-06	571.83	14.58	557.25
AFW-2U-06	593.22	Dry	-
AGW-1U-06	591.66	39.52	552.14
B2U-06	589.29	35.78	553.51
C3-06	585.78	Dry	-
D1U-06	593.25	46.37	546.88
D2U-06	590.38	43.11	547.27
E6-06	577.99	5.60	572.39
F2M-06	599.06	47.41	551.65
F4M-06	602.05	51.68	550.37
F6-06	587.84	15.52	572.32
G1M-06	616.75	44.31	572.44
G6-06	609.09	35.23	573.86
H2M-06	621.42	39.82	581.60
H5-06	617.17	28.94	588.23
I1-06	625.15	79.30	545.85
J2M-06	608.94	56.91	552.03
J5M-06	606.22	59.86	546.36
J6-06	608.93	54.75	554.18
PMW-1U-06	597.92	51.19	546.73

Table 1

**Water Level Elevation Summary  
Fourth Quarter - 2020  
Hyde Park RRT Program**

<b>Well</b>	<b>Reference Elevation (ft AMSL)</b>	<b>Depth to Water (ft)</b>	<b>Water Level Elevation (ft AMSL)</b>
<b>Flow Zone 7</b>			
ABP-1-07	575.20	28.43	546.77
ABP-7-07	575.73	41.37	534.36
AFW-1M-07	571.41	Dry	-
AFW-2M-07	593.44	66.82	526.62
AGW-1M-07	592.91	49.78	543.13
B2M-07	589.52	58.98	530.54
C3-07	585.62	44.82	540.80
D1M-07	594.15	62.08	532.07
D2M-07	590.77	67.45	523.32
E6-07	577.91	23.09	554.82
F2M-07	598.91	79.13	519.78
F4M-07	601.91	76.58	525.33
F6-07	587.68	20.18	567.50
G1M-07	616.68	38.90	577.78
G6-07	609.06	31.03	578.03
H5-07	617.05	62.38	554.67
I1-07	625.14	83.20	541.94
J5M-07	606.07	64.08	541.99
J6-07	608.85	67.23	541.62
PMW-1M-07	598.50	68.27	530.23
<b>Flow Zone 9</b>			
ABP-1-09	575.19	40.75	534.44
ABP-7-09	575.67	42.32	533.35
AFW-1M-09	571.12	46.51	524.61
AFW-2M-09	593.32	72.28	521.04
AGW-1M-09	592.75	49.78	542.97
B2M-09	589.34	-	-
C3-09	585.00	44.94	540.06
D1M-09	594.02	74.67	519.35
D2M-09	590.66	71.37	519.29
E6-09	577.82	25.27	552.55
F2M-09	598.71	79.70	519.01
F4M-09	601.79	82.85	518.94
F6-09	587.53	17.17	570.36
G1M-09	616.58	41.06	575.52
G6-09	608.98	30.39	578.59
H2M-09	621.32	73.00	548.32
H5-09	616.93	76.42	540.51
I1-09	624.91	61.91	563.00
J2M-09	608.77	67.03	541.74
J5M-09	605.82	63.72	542.10
J6-09	608.76	45.27	563.49
PMW-1M-09	598.34	78.90	519.44

Table 1

**Water Level Elevation Summary  
Fourth Quarter - 2020  
Hyde Park RRT Program**

Well	Reference Elevation (ft AMSL)	Depth to Water (ft)	Water Level Elevation (ft AMSL)
<b>Flow Zone 11</b>			
AFW-1L-11	572.10	64.72	507.38
AFW-2L-11	593.43	98.16	495.27
AGW-1L-11	592.71	8.89	583.82
B2L-11	589.65	91.59	498.06
D1L-11	593.80	91.89	501.91
D2L-11	590.21	66.75	523.46
E6-11	577.72	46.78	530.94
F2L-11	598.94	45.05	553.89
F4L-11	602.22	31.57	570.65
F6-11	587.40	61.25	526.15
G1L-11	616.84	35.53	581.31
G6-11	608.89	34.20	574.69
H2L-11	620.73	62.03	558.70
H5-11	616.81	77.00	539.81
I1-11	624.75	79.23	545.52
J5L-11	607.20	56.17	551.03
J6-11	608.68	23.18	585.50
PMW-1L-11	598.84	85.19	513.65
<b>Purge Wells</b>			
APW-1	564.98	55.68	509.30
APW-2	569.89	57.69	512.20
PW-1L	593.16	97.96	495.20
PW-1U	593.50	42.20	551.30
PW-2L	597.29	101.69	495.60
PW-2M	596.61	82.31	514.30
PW-2UR	594.75	35.05	559.70
PW-3L	599.05	98.05	501.00
PW-3M	597.79	76.99	520.80
PW-4M	606.93	82.63	524.30
PW-4U	604.85	31.15	573.70
PW-5UR	601.31	45.61	555.70
PW-6UMR	609.31	107.61	501.70
PW-6UR	608.47	52.67	555.80
PW-7U	592.47	52.27	540.20
PW-8M	592.67	73.77	518.90
PW-8U	589.27	38.97	550.30
PW-9U	587.47	43.27	544.20
PW-10U	593.54	28.74	564.80

## Notes:

- - Not applicable
- ft AMSL - Feet above mean sea level
- Dry - No water present at the time of measurement

Table 2

**Leachate Treatment System Daily Effluent Monitoring Data  
Fourth Quarter - 2020  
Hyde Park RRT Program**

Date	Effluent	
	pH (su)	Flow (gal)
10/01/20	7.1	35,000
10/02/20		
10/03/20		
10/04/20		
10/05/20		
10/06/20	7.0	115,000
10/07/20	7.0	39,000
10/08/20		
10/09/20		
10/10/20		
10/11/20		
10/12/20		
10/13/20	7.0	130,000
10/14/20	7.0	14,000
10/15/20		
10/16/20		
10/17/20		
10/18/20		
10/19/20		
10/20/20	7.1	104,000
10/21/20	7.2	30,000
10/22/20		
10/23/20		
10/24/20		
10/25/20		
10/26/20		
10/27/20	7.1	158,000
10/28/20	7.0	150,000
10/29/20		
10/30/20		
10/31/20		
11/01/20		
11/02/20		
11/03/20	7.1	155,000
11/04/20	7.0	27,000
11/05/20		
11/06/20		

Table 2

**Leachate Treatment System Daily Effluent Monitoring Data  
Fourth Quarter - 2020  
Hyde Park RRT Program**

Date	Effluent	
	pH (su)	Flow (gal)
11/07/20		
11/08/20		
11/09/20	7.1	125,000
11/10/20	7.0	16,000
11/11/20		
11/12/20	6.9	130,000
11/13/20		
11/14/20		
11/15/20		
11/16/20		
11/17/20	7.1	116,000
11/18/20	7.2	35,000
11/19/20		
11/20/20		
11/21/20		
11/22/20		
11/23/20	7.2	119,000
11/24/20	7.2	44,000
11/25/20	7.2	41,000
11/26/20		
11/27/20		
11/28/20		
11/29/20		
11/30/20	7.3	165,000
12/01/20		
12/02/20	7.2	166,000
12/03/20	7.1	163,000
12/04/20		
12/05/20		
12/06/20		
12/07/20	7.0	95,000
12/08/20	7.3	42,000
12/09/20	7.2	19,000
12/10/20		
12/11/20		
12/12/20		
12/13/20		

Table 2

**Leachate Treatment System Daily Effluent Monitoring Data  
Fourth Quarter - 2020  
Hyde Park RRT Program**

Date	Effluent	
	pH (su)	Flow (gal)
12/14/20	7.1	137,000
12/15/20	7.0	160,000
12/16/20	7.1	15,000
12/17/20		
12/18/20		
12/19/20		
12/20/20		
12/21/20	7.0	224,000
12/22/20		
12/23/20	7.0	140,000
12/24/20		
12/25/20		
12/26/20		
12/27/20		
12/28/20		
12/29/20	7.1	217,000
12/30/20	7.0	231,000
12/31/20	7.1	55,000
	<b>Total</b>	3,412,000

## Notes:

su - Standard Unit  
gal - Gallons

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Fourth Quarter - 2020**  
**Hyde Park RRT Program**

Effluent	Parameter	Units	10/07/2020	10/14/2020	10/21/2020	10/27/2020	11/04/2020	11/11/2020
<b>Volatiles</b>								
	1,1,1-Trichloroethane	µg/L	0.55 J	0.61 J	0.47 J	2.0 U	2.0 U	0.60 J
	1,1,2,2-Tetrachloroethane	µg/L	6.7	7.5	5.2	4.6	5.1	5.0
	1,1,2-Trichloroethane	µg/L	1.2 J	1.3 J	1.1 J	0.77 J	0.95 J	1.1 J
	1,1-Dichloroethane	µg/L	4.5	6.3	4.9	4.5	3.4	4.7
	1,1-Dichloroethene	µg/L	2.0 U					
	1,2,4-Trichlorobenzene	µg/L	2.0 U					
	1,2-Dichlorobenzene	µg/L	2.0 U					
	1,2-Dichloroethane	µg/L	7.3	10	9.6	6.5	5.4	7.5
	1,2-Dichloropropane	µg/L	1.2 J	1.1 J	0.90 J	2.0 U	0.77 J	0.82 J
	1,3-Dichlorobenzene	µg/L	2.0 U					
	1,4-Dichlorobenzene	µg/L	2.0 U					
	2-Chlorotoluene	µg/L	2.0 U					
	3-Chlorotoluene	µg/L	2.0 U					
	4-Chlorotoluene	µg/L	2.0 U					
	Benzene	µg/L	8.8	9.6	8.3	5.5	7.2	6.6
	Bromodichloromethane	µg/L	2.0 U					
	Bromoform	µg/L	2.0 U					
	Bromomethane (Methyl bromide)	µg/L	2.0 U					
	Carbon disulfide	µg/L	59	30	18	43	24	13
	Carbon tetrachloride	µg/L	2.0 U					
	Chlorobenzene	µg/L	2.0 U					
	Chloroethane	µg/L	2.0 U					
	Chloroform (Trichloromethane)	µg/L	13	19	14	7.8	15	15
	Chloromethane (Methyl chloride)	µg/L	2.0 U					
	cis-1,2-Dichloroethene	µg/L	2.3	3.0	2.2	2.1	1.6 J	2.1
	cis-1,3-Dichloropropene	µg/L	2.0 U					
	Dichlorodifluoromethane (CFC-12)	µg/L	2.0 U					
	Ethylbenzene	µg/L	2.0 U					
	m&p-Xylenes	µg/L	4.0 U					
	m-Monochlorobenzotrifluoride	µg/L	2.0 U					
	Methylene chloride	µg/L	2.0 U					
	o-Monochlorobenzotrifluoride	µg/L	2.0 U					
	o-Xylene	µg/L	2.0 U					
	p-Monochlorobenzotrifluoride	µg/L	2.0 U					
	Styrene	µg/L	2.0 U					
	Tetrachloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	0.45 J	2.0 U
	Toluene	µg/L	2.0 U					
	trans-1,2-Dichloroethene	µg/L	2.0 U					
	trans-1,3-Dichloropropene	µg/L	2.0 U					
	Trichloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	0.60 J	2.0 U
	Trichlorofluoromethane (CFC-11)	µg/L	2.0 U					
	Vinyl acetate	µg/L	4.0 U					
	Vinyl chloride	µg/L	120	250	150	150	94	130
	Xylenes (total)	µg/L	6.0 U					
<b>General Chemistry</b>								
	Phenolics (total)	mg/L	0.0159	0.0137	0.0113	0.0097	0.0193	0.0139

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Fourth Quarter - 2020**  
**Hyde Park RRT Program**

Effluent	Parameter	Units	11/18/2020	11/24/2020	12/02/2020	12/09/2020	12/16/2020	12/21/2020
<b>Volatiles</b>								
	1,1,1-Trichloroethane	µg/L	2.0 U	2.0 U	1.8 J	2.0 U	0.35 J	2.0 U
	1,1,2,2-Tetrachloroethane	µg/L	6.3	6.1	5.4	5.7	5.8	4.6
	1,1,2-Trichloroethane	µg/L	1.7 J	1.5 J	1.0 J	1.6 J	1.5	0.79 J
	1,1-Dichloroethane	µg/L	4.6	4.7	4.7	4.5	3.6	3.8
	1,1-Dichloroethene	µg/L	2.0 U	2.0 U	2.0 J	2.0 U	1.0 U	2.0 U
	1,2,4-Trichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	1,2-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	1,2-Dichloroethane	µg/L	7.7	7.1	6.2	7.0	7.2	6.4
	1,2-Dichloropropane	µg/L	2.0 U	2.0 U	2.0 U	0.79 J	1.1	0.70 J
	1,3-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	1,4-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	2-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	3-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	4-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Benzene	µg/L	9.2	8.7	6.0	8.1	13	6.6
	Bromodichloromethane	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Bromoform	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Carbon disulfide	µg/L	36	32	29	21	6.2	6.0
	Carbon tetrachloride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Chlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Chloroethane	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Chloroform (Trichloromethane)	µg/L	21	18	15	20	18	15
	Chloromethane (Methyl chloride)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	cis-1,2-Dichloroethene	µg/L	2.2	1.9 J	1.9 J	2.7	2.1	1.6 J
	cis-1,3-Dichloropropene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Dichlorodifluoromethane (CFC-12)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Ethylbenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	m&p-Xylenes	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	2.0 U	4.0 U
	m-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Methylene chloride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	o-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	o-Xylene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	p-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Styrene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Tetrachloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Toluene	µg/L	2.0 U	2.0 U	0.47 J	2.0 U	1.0 U	2.0 U
	trans-1,2-Dichloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	trans-1,3-Dichloropropene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Trichloroethene	µg/L	2.0 U	2.0 U	1.6 J	2.0 U	0.24 J	2.0 U
	Trichlorofluoromethane (CFC-11)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
	Vinyl acetate	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	2.0 U	4.0 U
	Vinyl chloride	µg/L	130	130	140	120	87	98
	Xylenes (total)	µg/L	6.0 U	6.0 U	6.0 U	6.0 U	3.0 U	6.0 U
<b>General Chemistry</b>								
	Phenolics (total)	mg/L	0.0107	0.0092	0.0070	0.0087	0.0050 U	0.0050 U

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

Table 4

**Analytical Results Summary  
Quarterly Sampling - Leachate Treatment System  
Fourth Quarter - 2020  
Hyde Park RRT Program**

<b>Sample Location:</b>	<b>EFFLUENT</b>	<b>EFFLUENT</b>
<b>Sample ID:</b>	<b>HP 122120 EFF</b>	<b>HP 122120 EFF</b>
<b>Sample Date:</b>	<b>12/21/2020</b>	<b>12/21/2020</b>

<b>Parameters</b>	<b>Units</b>		
<b>Volatile Organic Compounds</b>			
Vinyl chloride	µg/L	100	-
<b>General Chemistry</b>			
Phosphorus	mg/L	-	0.203

## Notes:

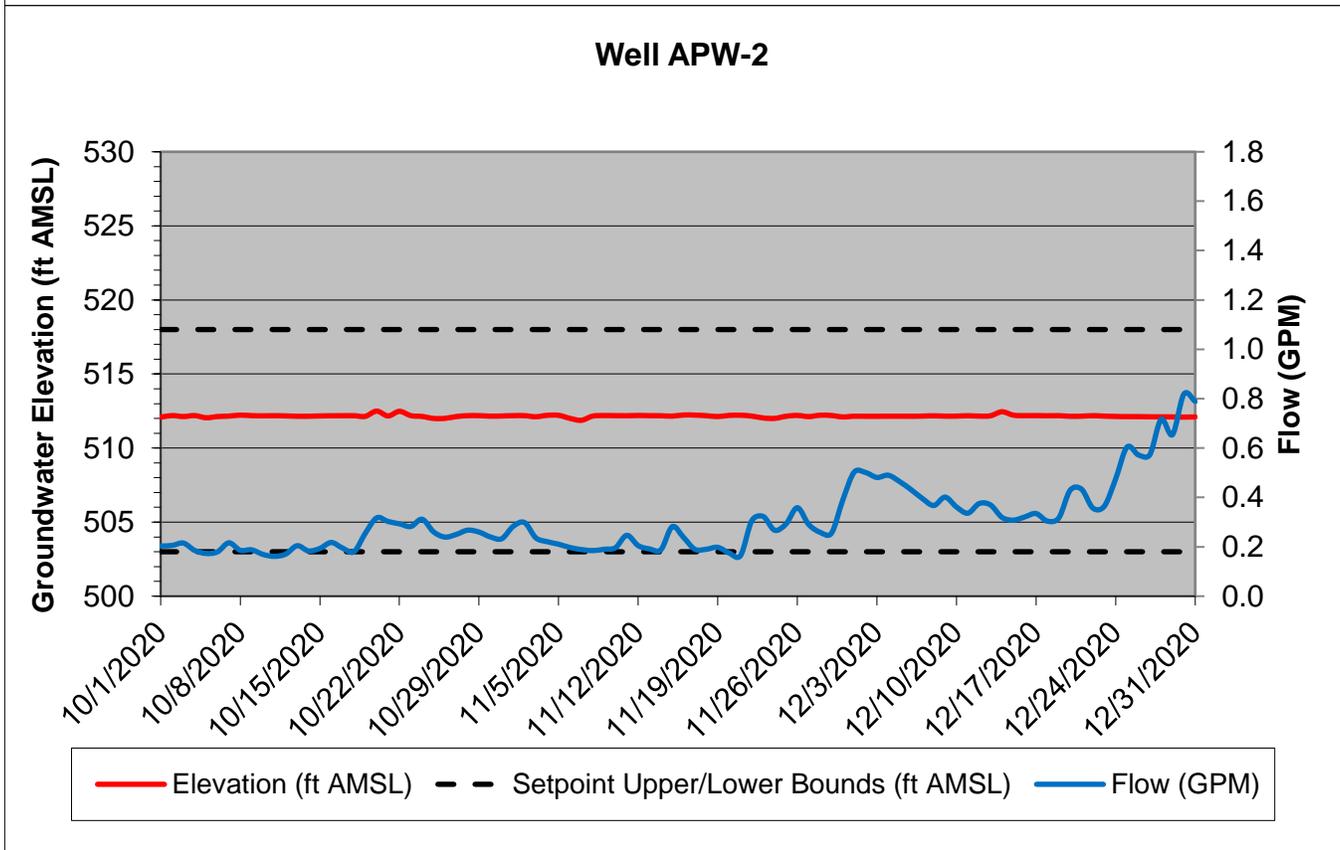
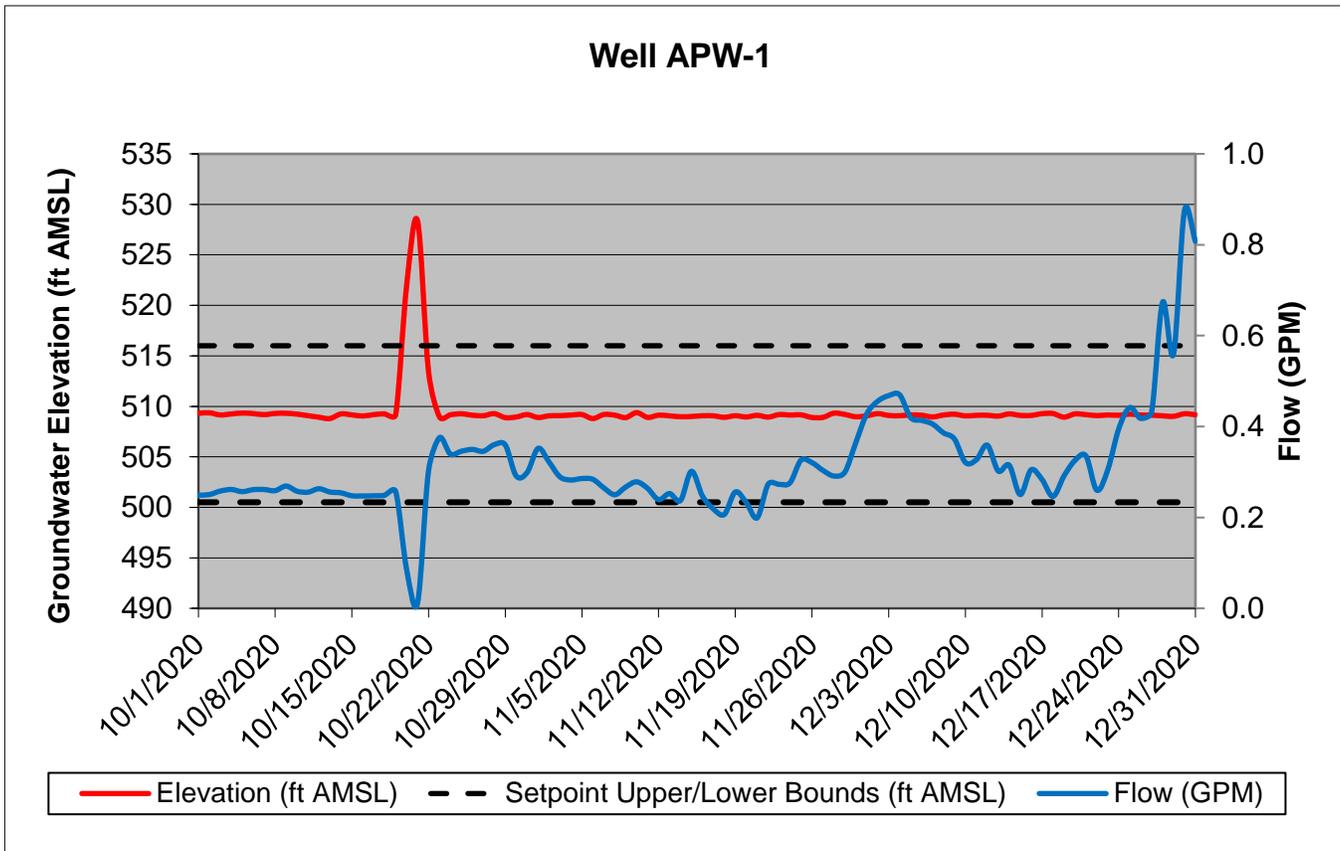
"-" - Not applicable

mg/L - Milligrams per liter

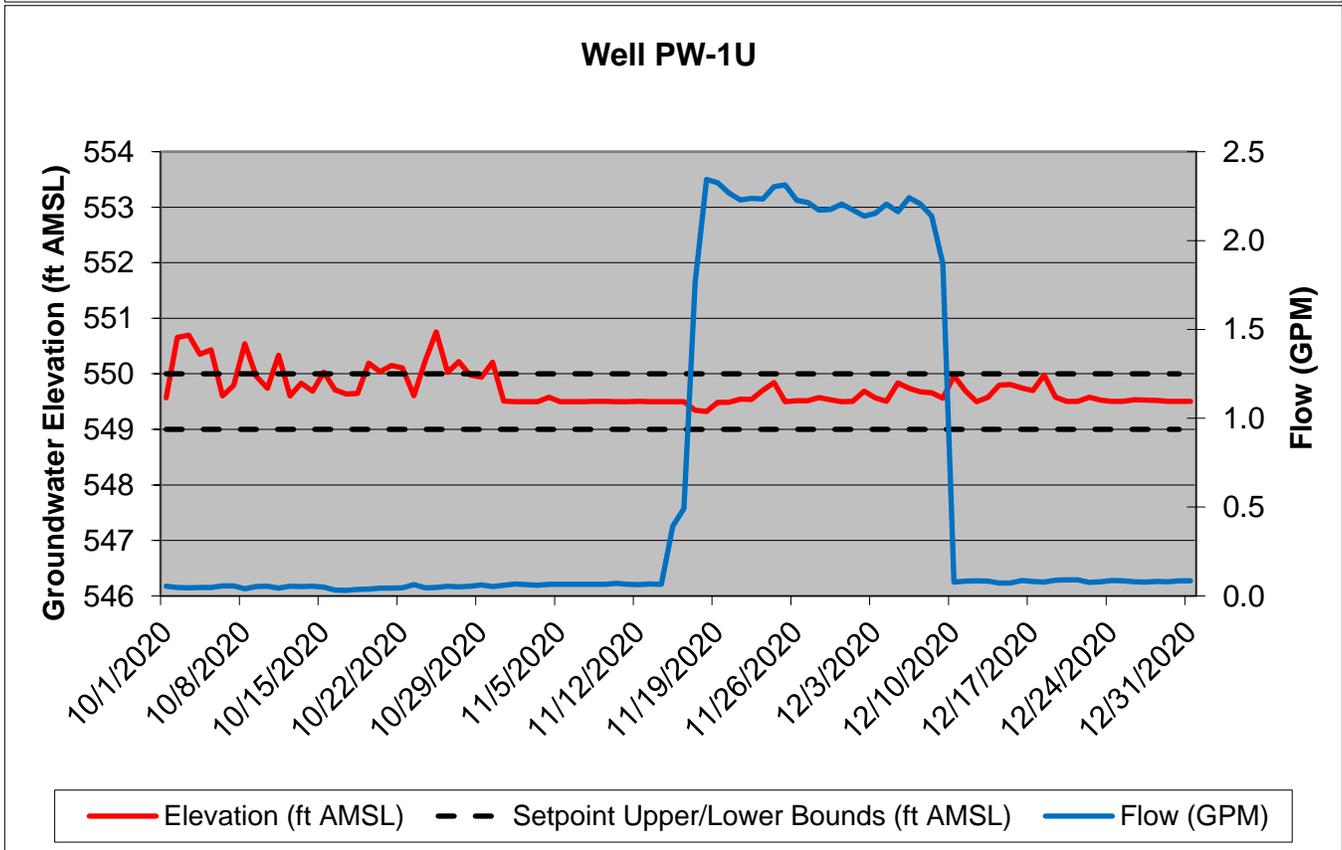
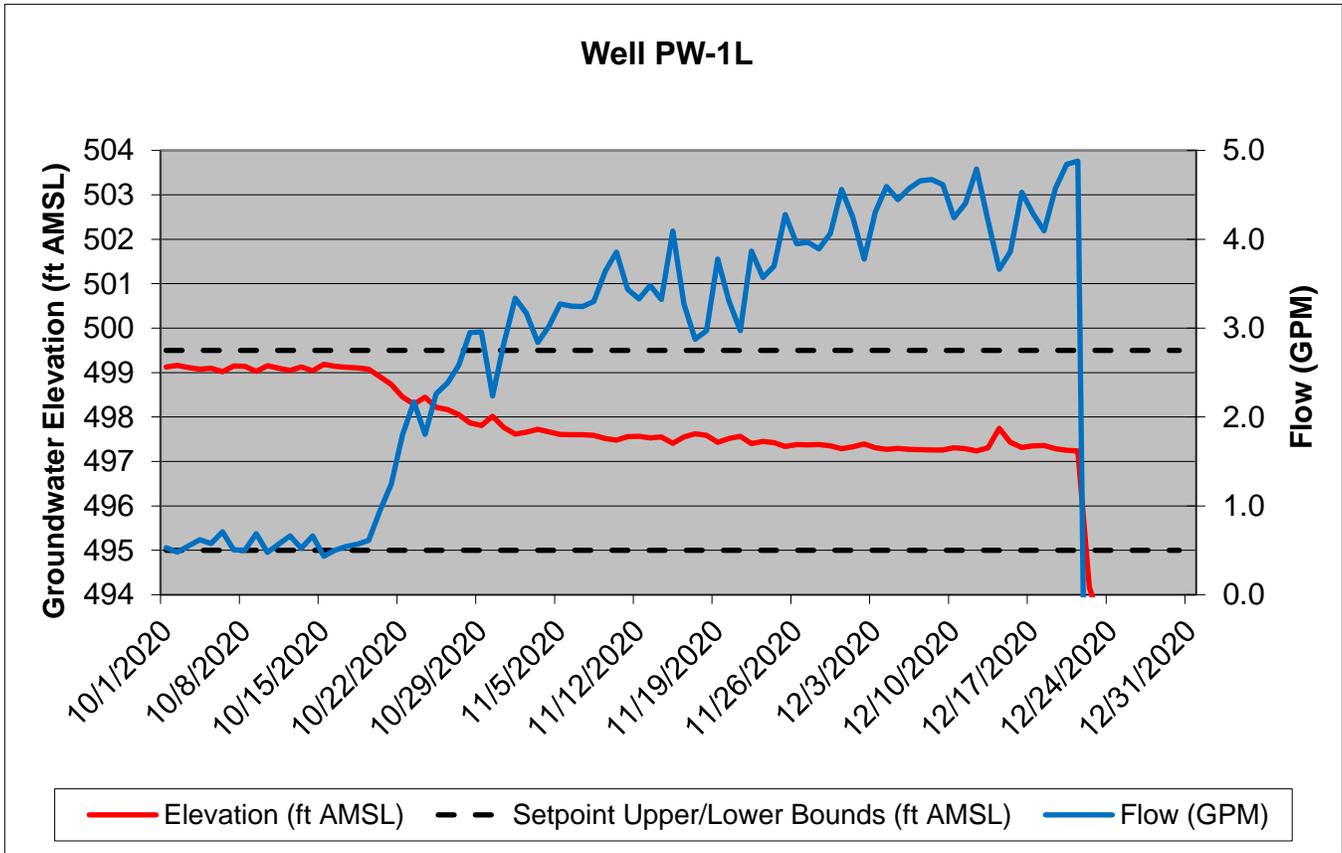
µg/L - Micrograms per liter

**Attachment A**  
**Fourth Quarter 2020**  
**Pumping Well Performance Graphs**

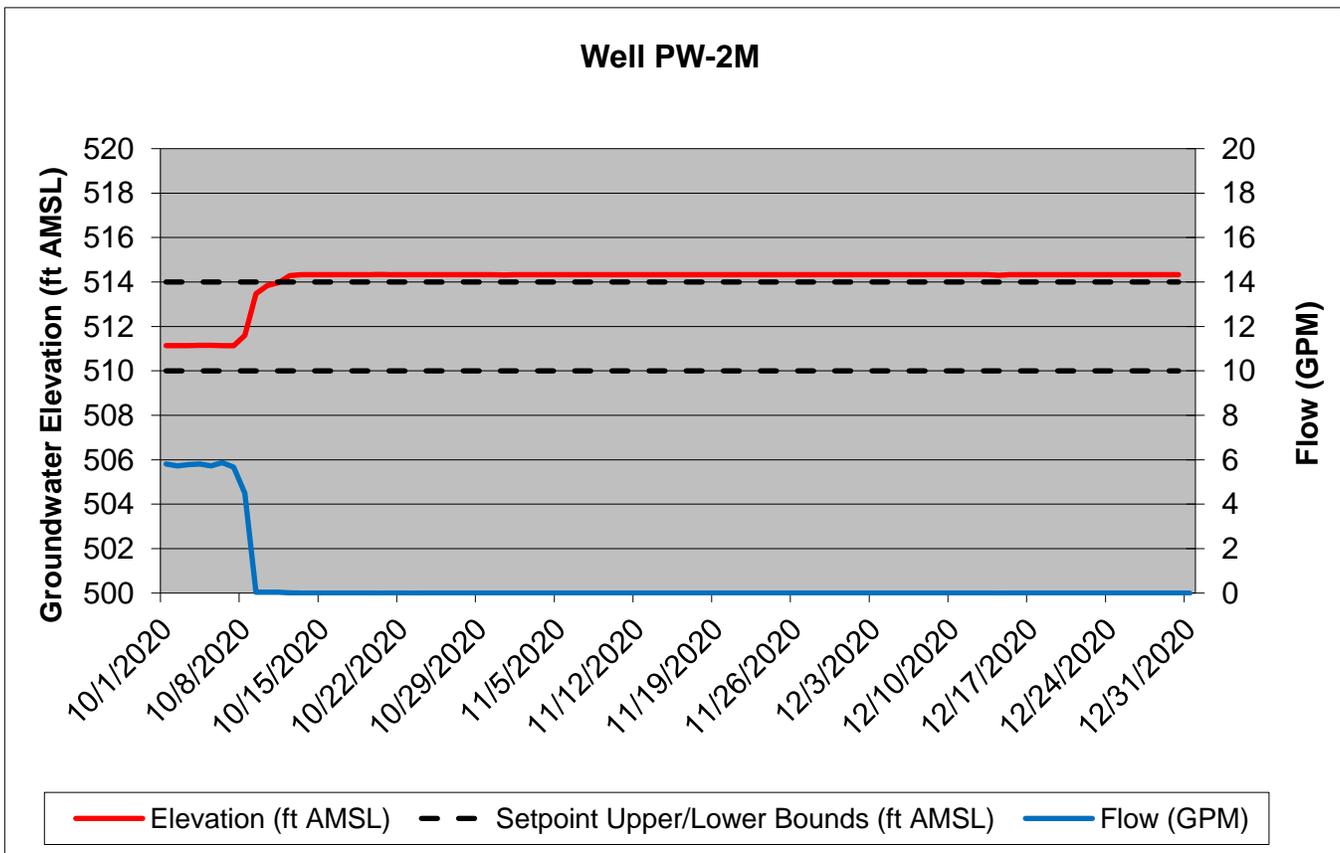
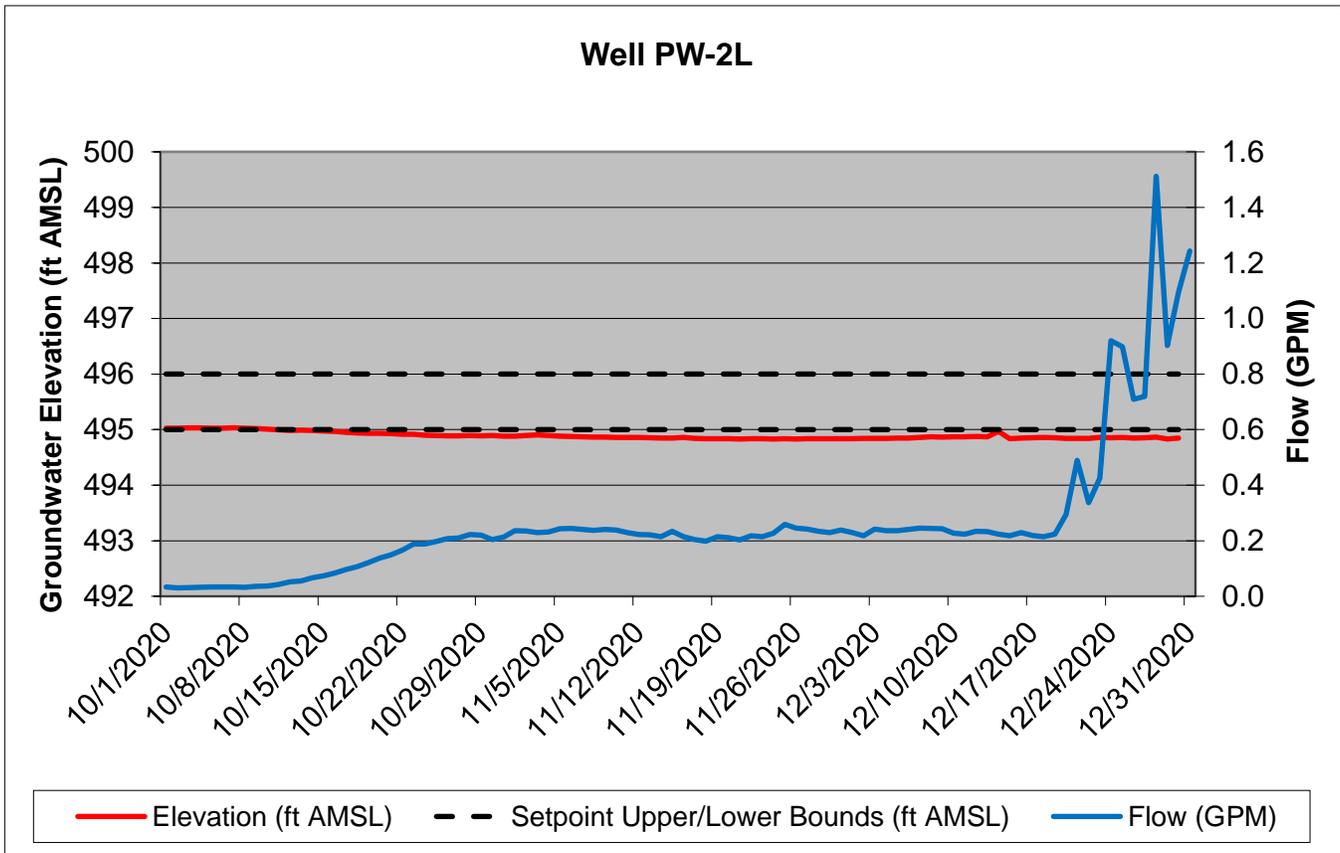
FOURTH QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



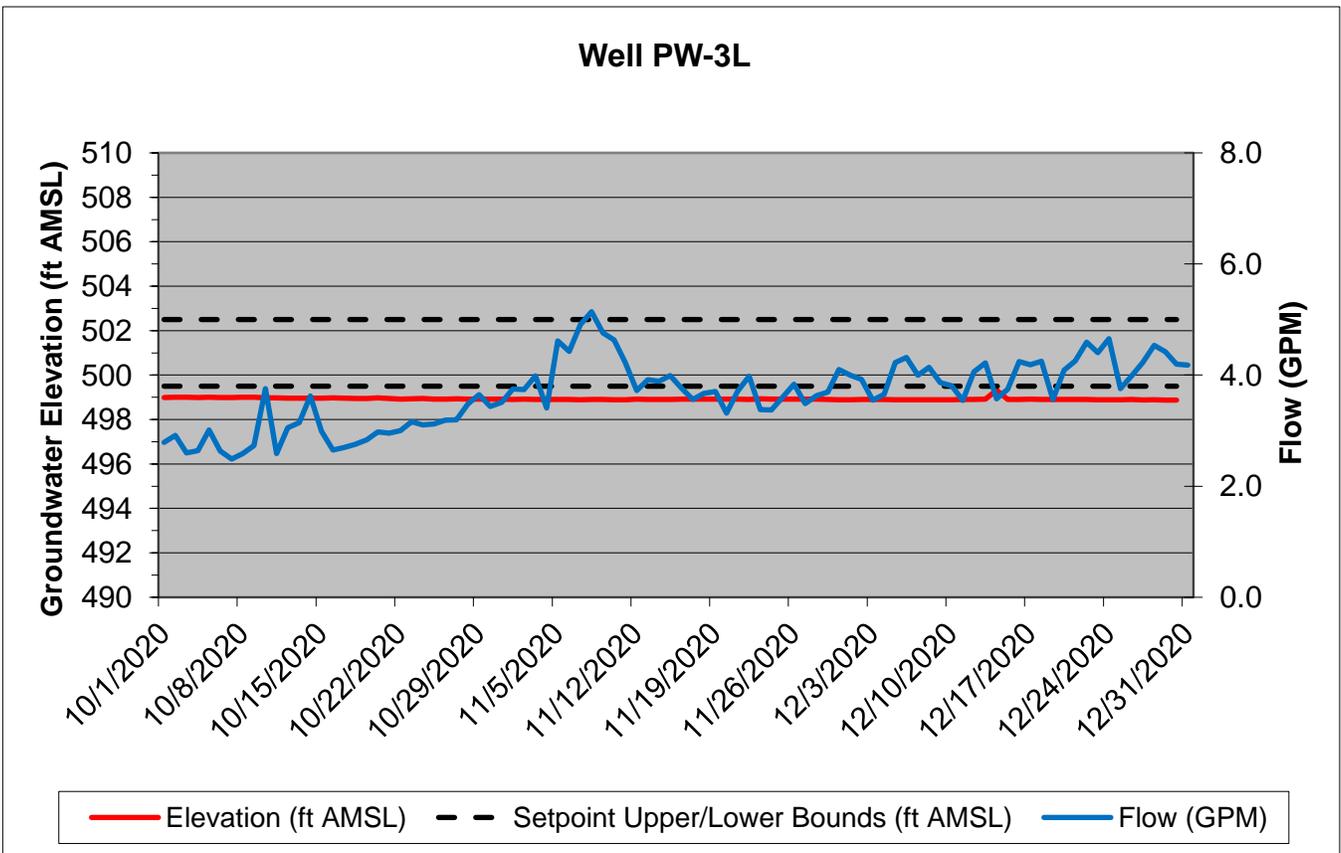
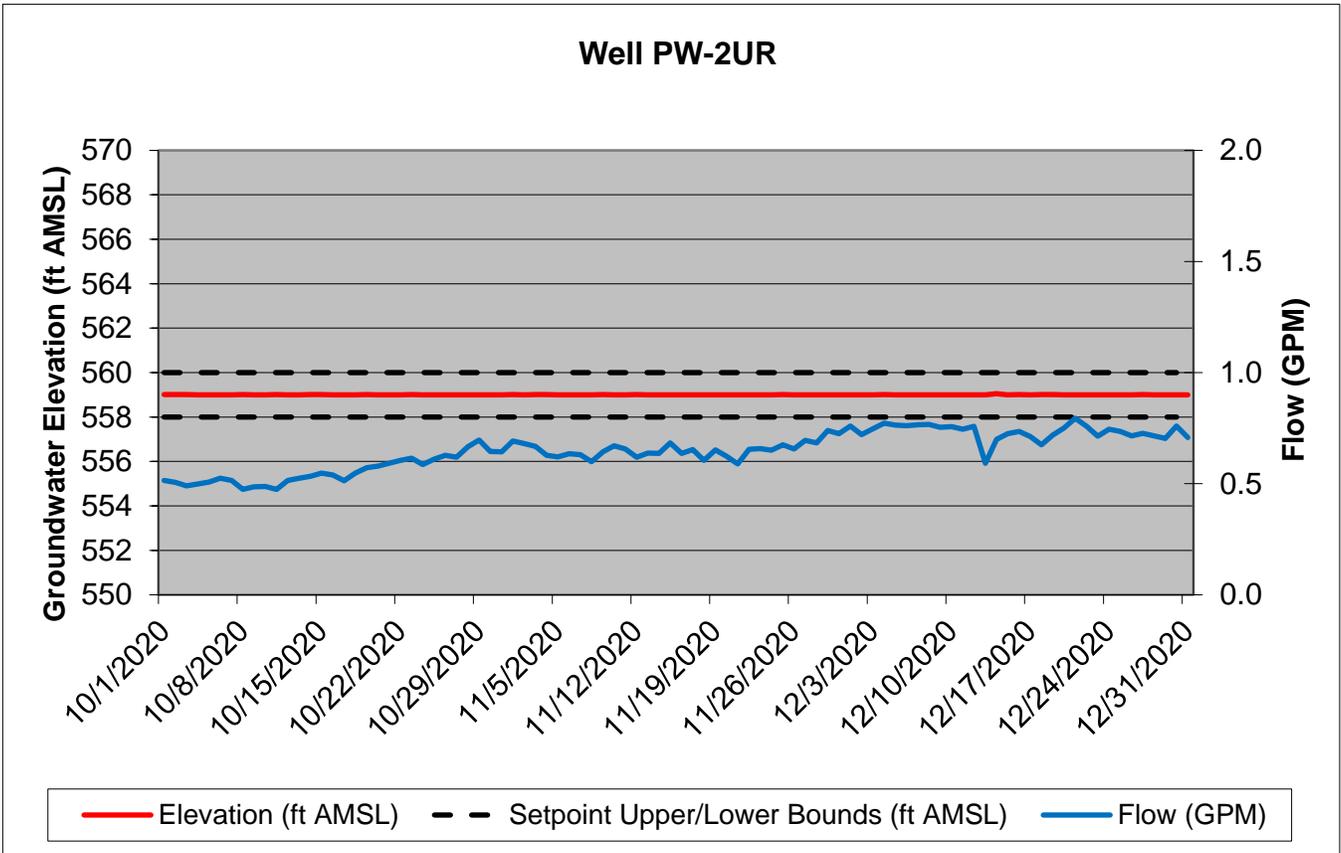
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HYDE PARK



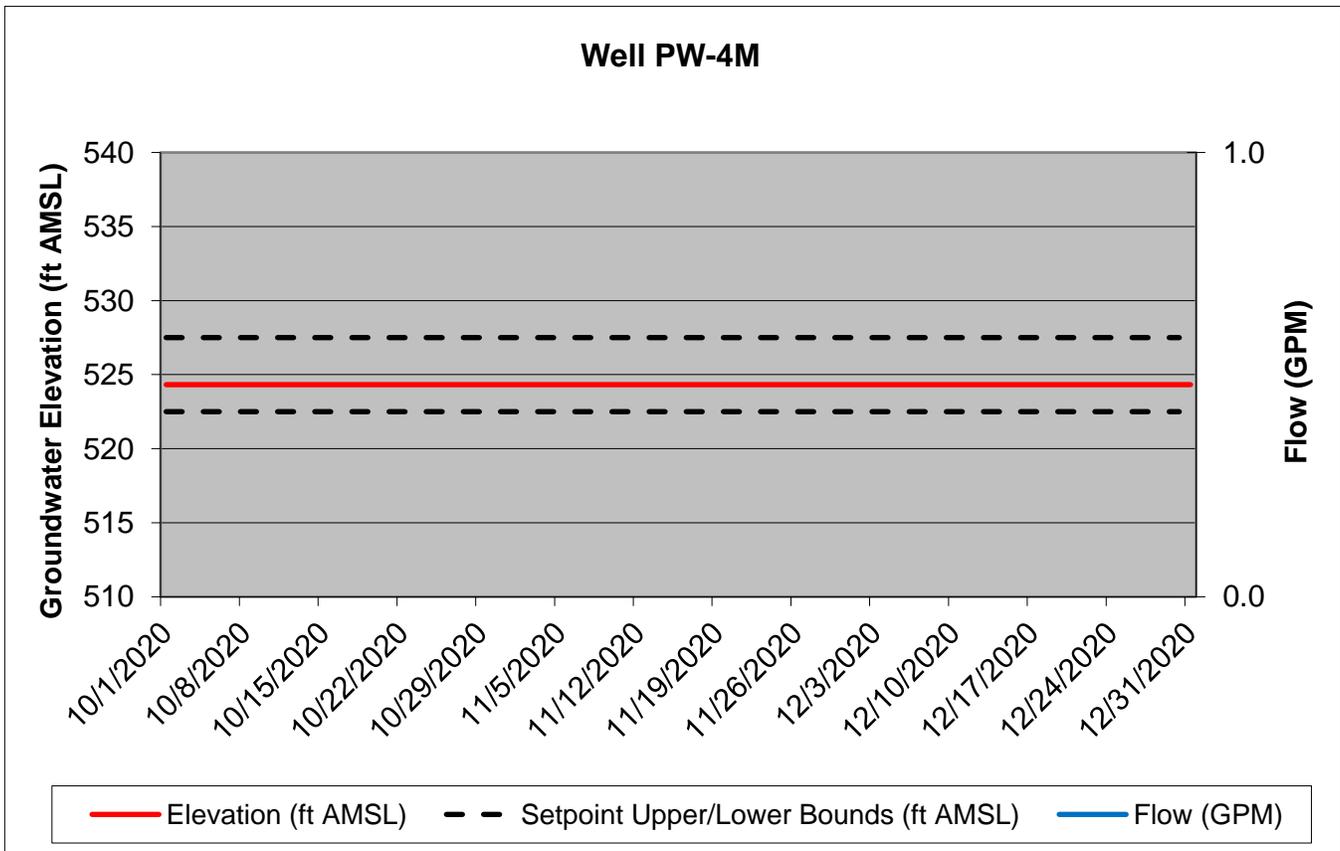
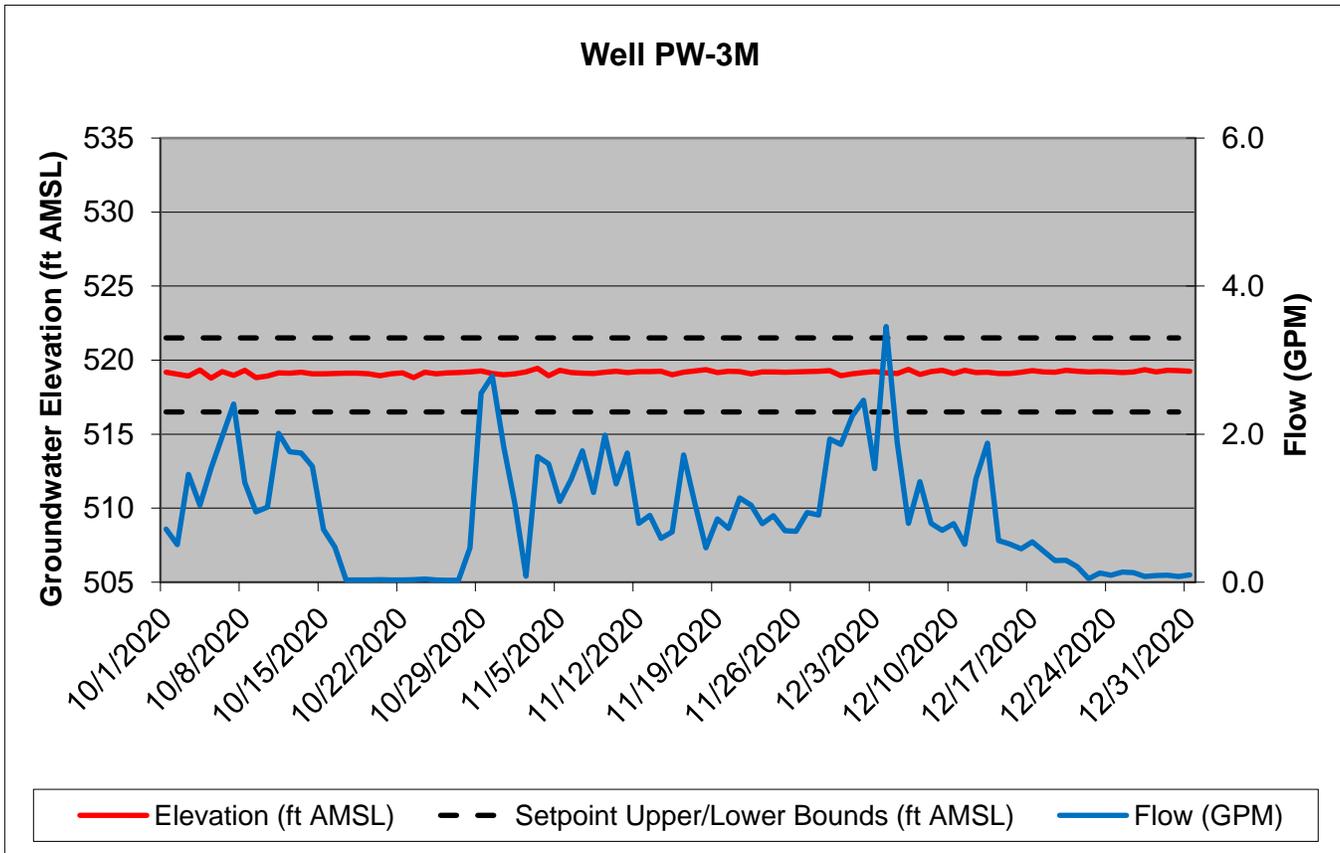
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HYDE PARK



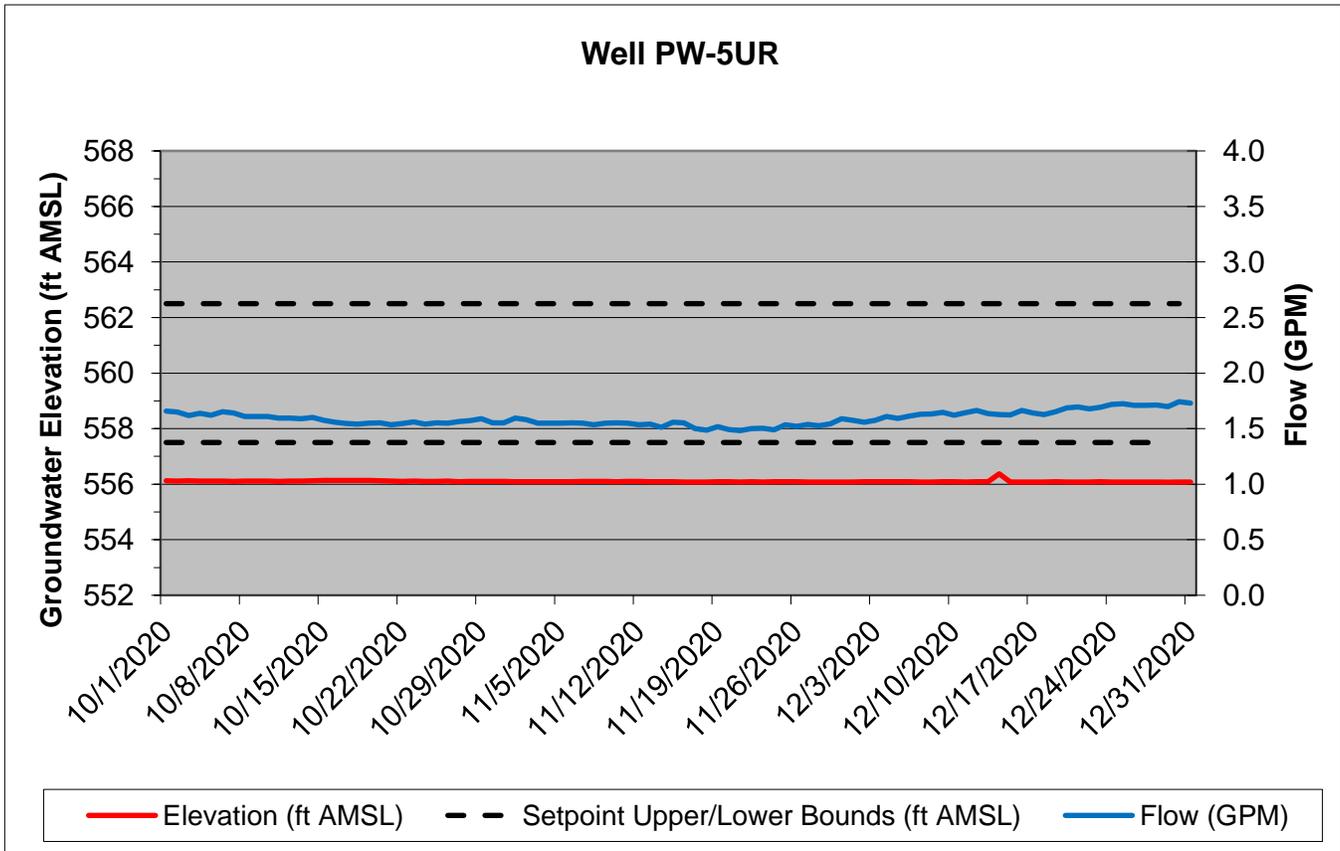
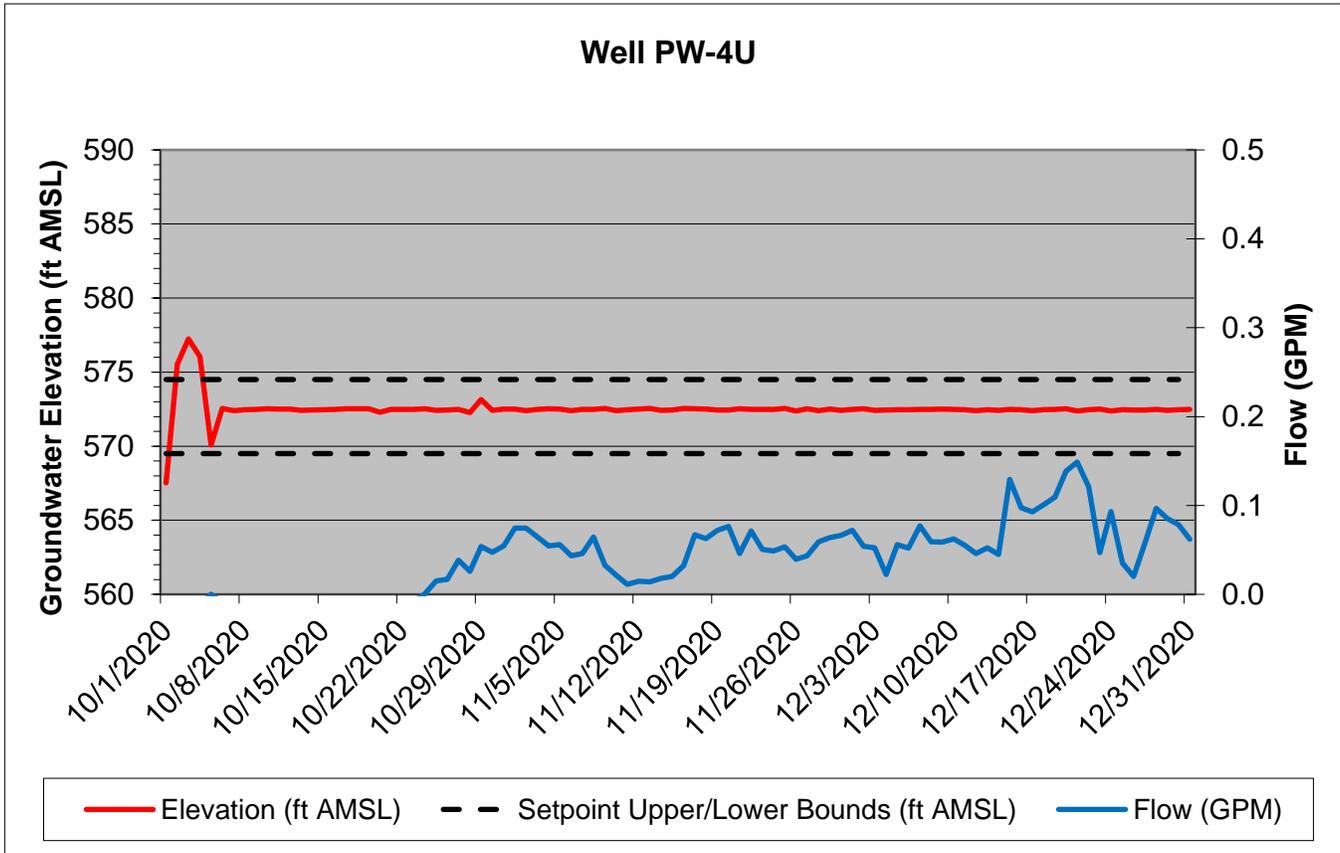
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HYDE PARK



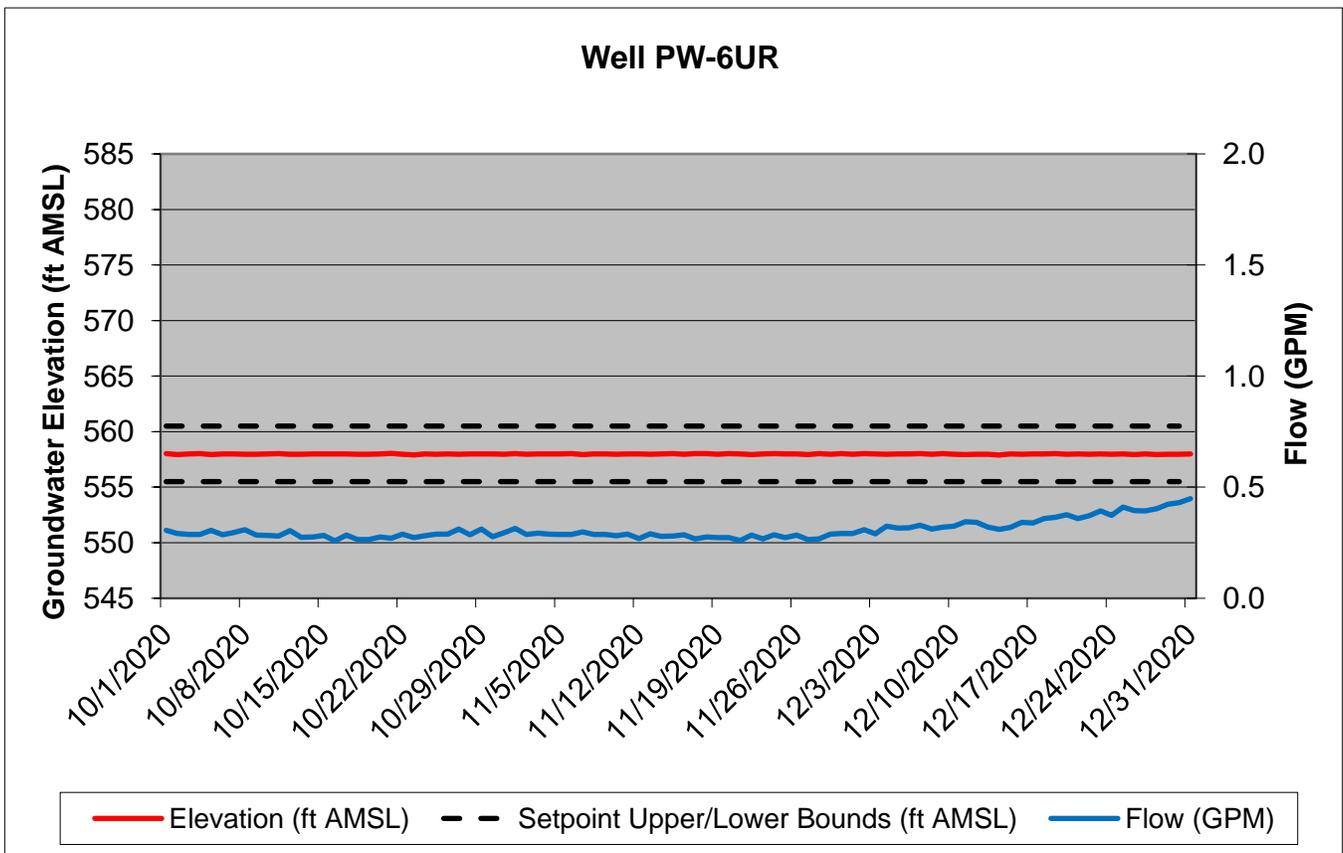
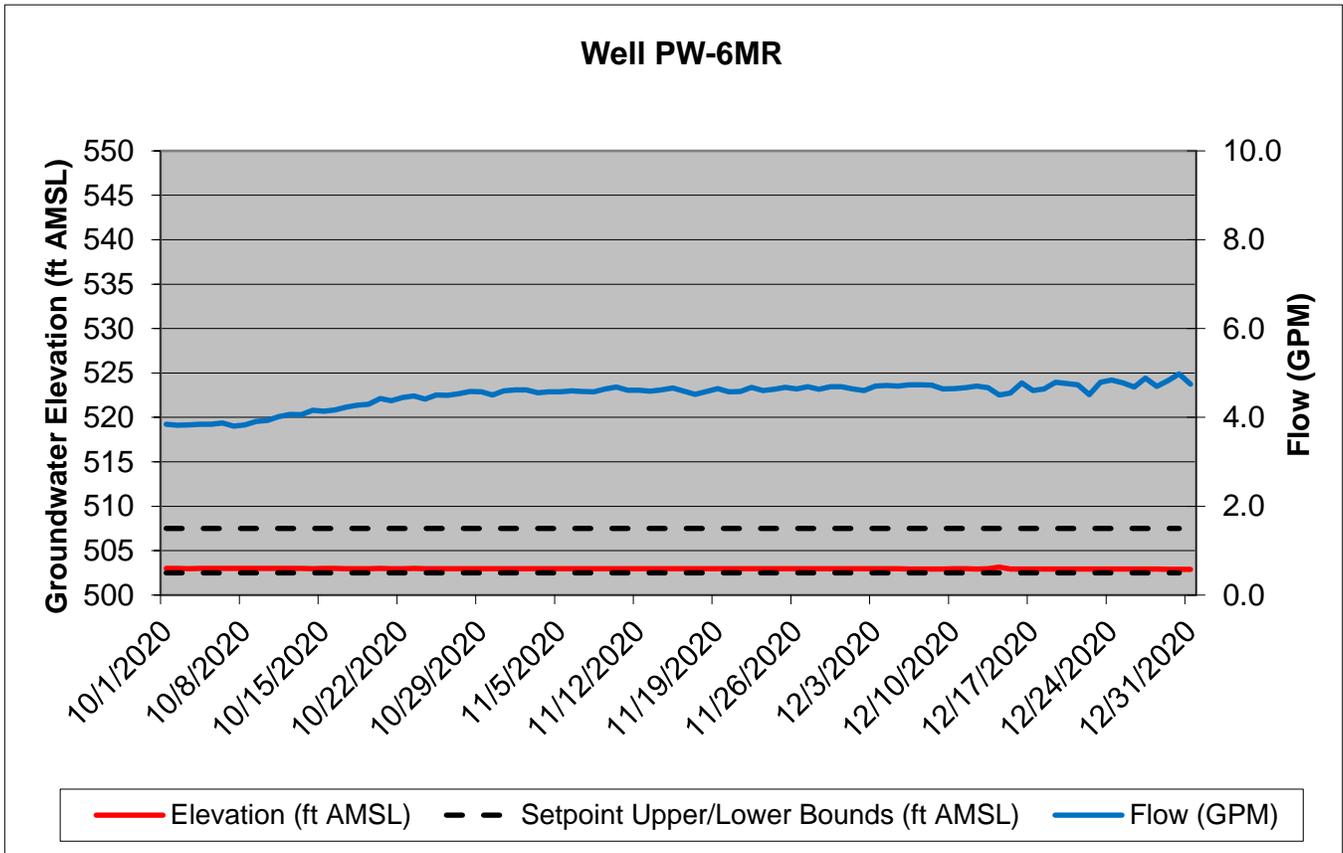
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HYDE PARK



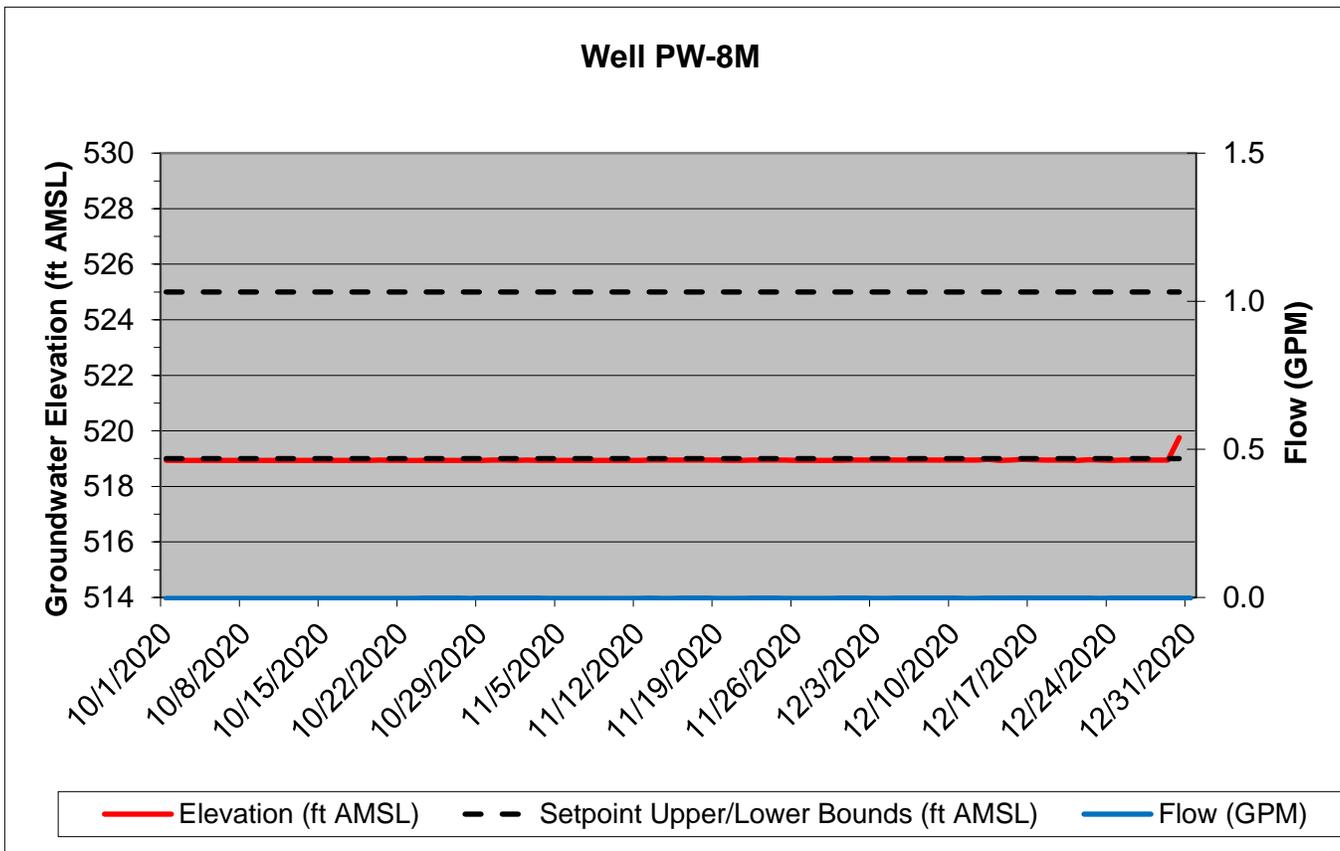
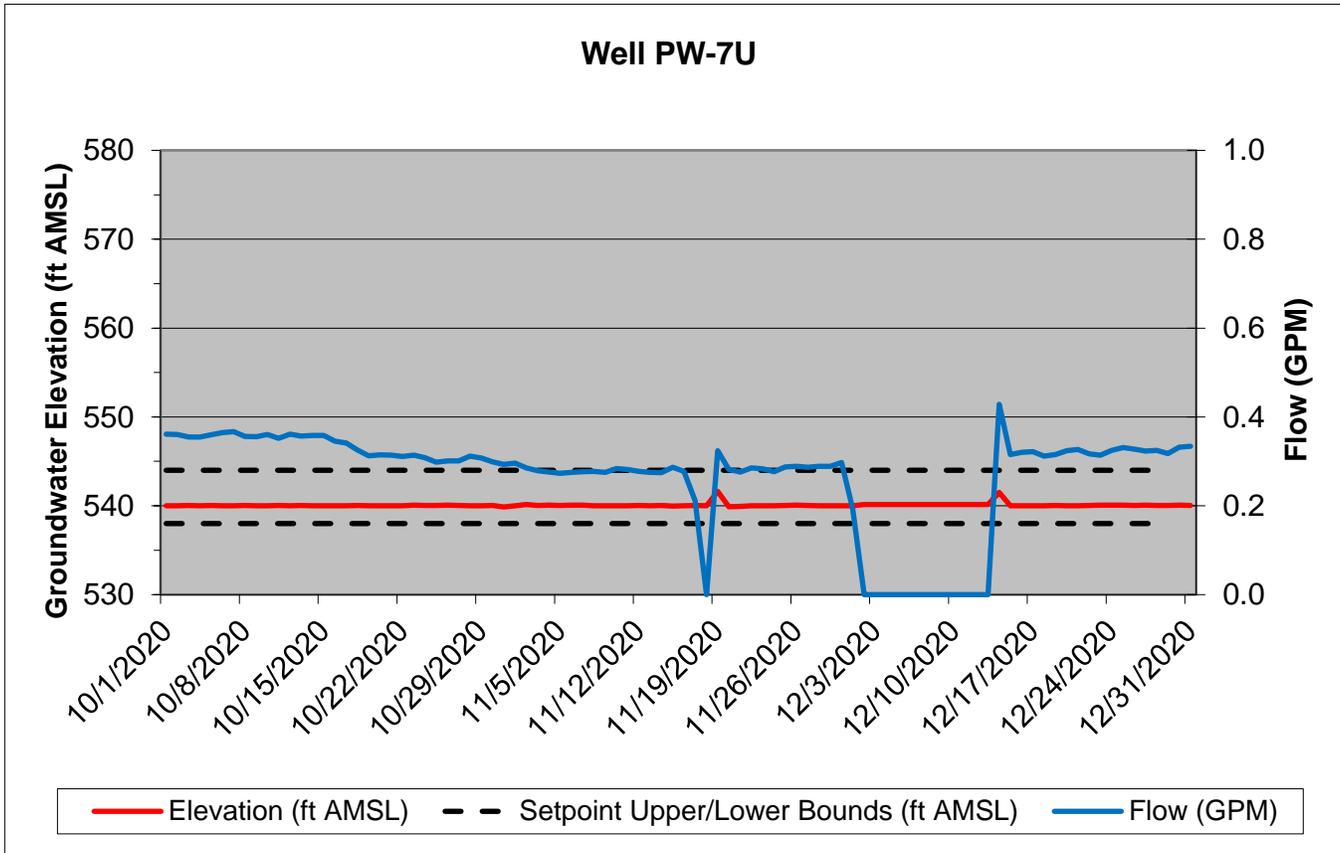
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HYDE PARK



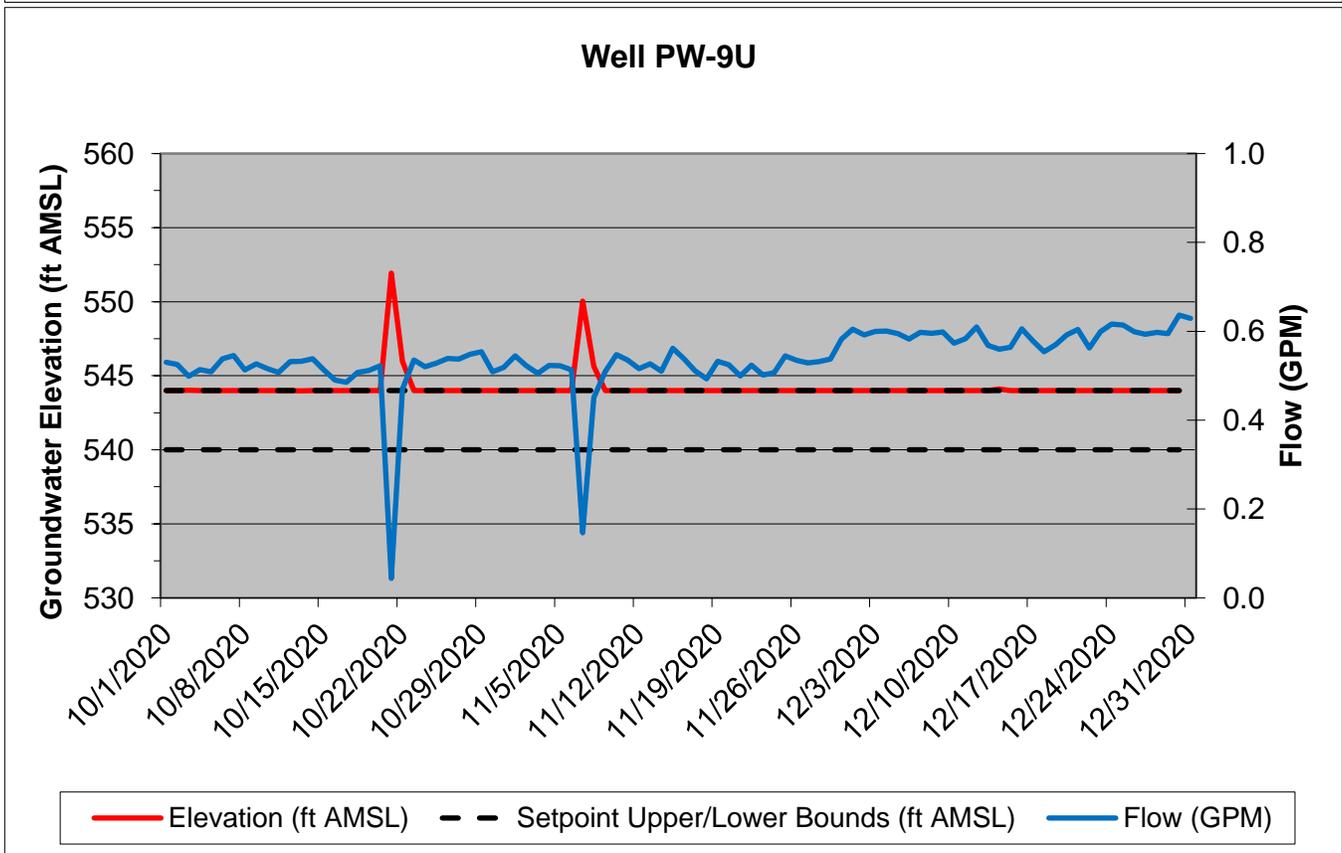
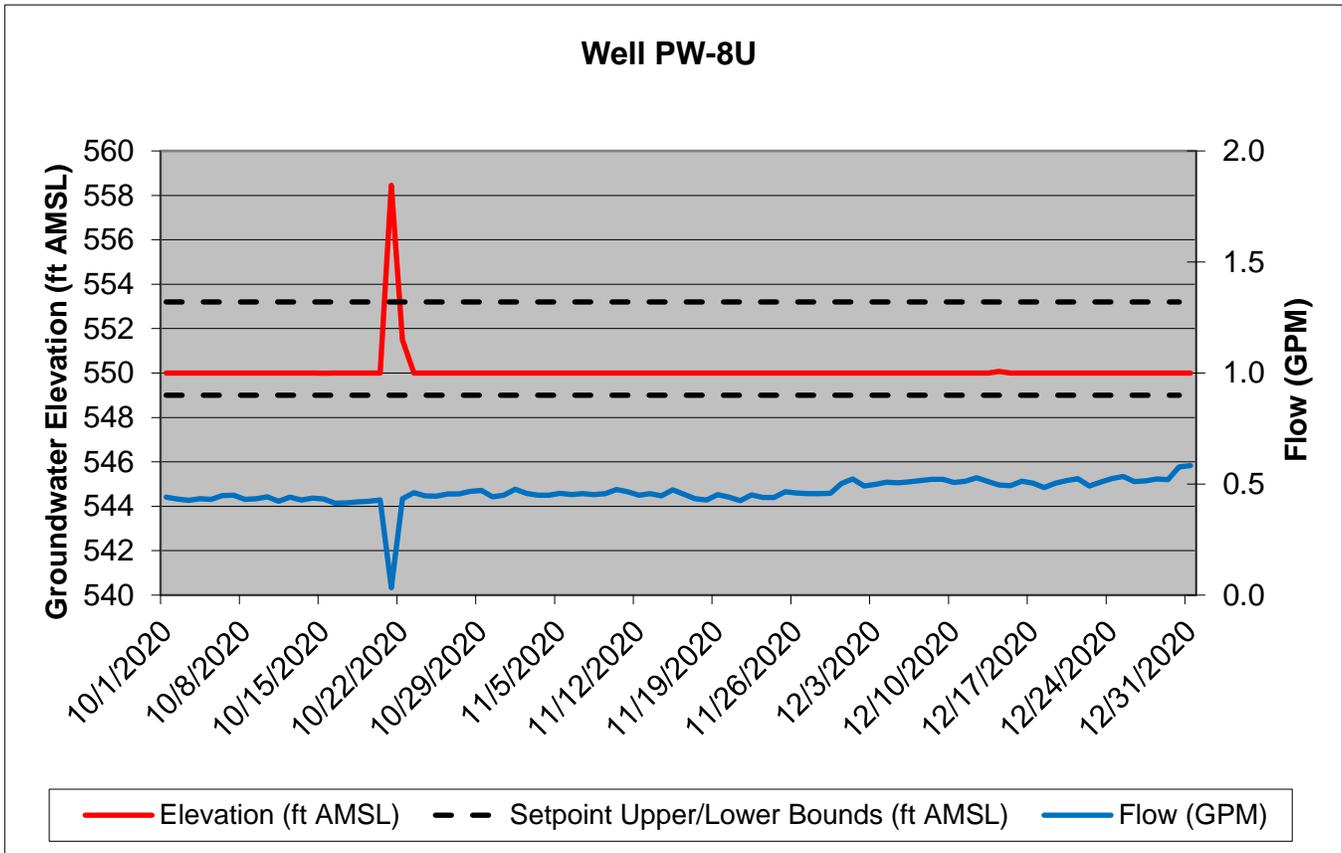
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HYDE PARK



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