



# Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

---

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

---

---

7601 Old Channel Trail  
Montague, MI 49437

---

April 26, 2024

Reference No. 11230216

Ms. Maeve Wurtz  
USEPA Region II  
290 Broadway, 20th Floor  
New York, NY 10007-1866

Mr. Andrew Zwack  
NYSDEC  
700 Delaware Avenue  
Buffalo, NY 14209

Dear Ms. Wurtz and Mr. Zwack:

**Re: Quarterly Operations Report - First Quarter 2024  
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 January 1, 2024 through March 31, 2024. A total of 7.9 million gallons of APL were collected, treated, and discharged in compliance with the Site's City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial User (SIU) Wastewater Discharge Permit #49. One drum (approximately 700 pounds) of non-aqueous phase liquid (NAPL) and one drum (approximately 150 pounds) of personal protective equipment (PPE) and debris 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: Groundwater 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 groundwater elevations for the flow zone 9 piezometer PMW-1M-09 for the first quarter 2024 are presented on Figure 10. These groundwater elevations were less than 526 feet above mean sea level (AMSL) through the entire quarter, indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated throughout the entire quarter.

The pumping wells were operational and functioning as designed during the first quarter 2024, with the exception of the downtime periods discussed below. 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.

- 2 -

The water level in APW-2 exceeded setpoint range from January 1 through the end of the quarter as the pump is awaiting replacement. APW-2 is currently inaccessible for performing the pump replacement due to unsuitable wet and muddy ground conditions for mobilizing the crane needed for the work.

The following minor operational and setpoint issues were investigated and resolved during the first quarter of 2024:

- The water level in APW-1 exceeded setpoint range on January 26 due to rain and snow melt and returned to within setpoint range on January 27.
- The water level in APW-1 exceeded setpoint range from March 10 through March 19 due to heavy rain and returned to within setpoint range on March 20.
- The water level in PW-2M exceeded setpoint range from January 4 through January 31 awaiting a pump replacement. The pump was replaced on January 31 and the water level returned to within setpoint range on February 1.
- The water level in PW-5UR exceeded setpoint range from February 1 through the end of the quarter awaiting a pump cleaning. The data indicating that the water level returned to within setpoint range on March 25 are false readings resulting from the probe and pump being pulled from the well to facilitate an early April cleaning and pump replacement.
- The water level in PW-7U exceeded setpoint range from January 17 through January 29 due to an intermittent variable frequency drive (VFD) fault. The fault was repaired on January 29 and the water level returned to within setpoint range on January 30.
- The water level in PW-7U exceeded setpoint range from February 15 through March 14 due to an intermittent VFD fault. The pump was taken out of service on March 15 and the water level exceeded setpoint range through the end of the quarter as the pump is awaiting replacement.
- The water level in PW-8U exceeded setpoint range from January 1 through January 6, January 12 through February 5, February 8 through February 22, and February 24 and February 25 due to heavy rain and snow melt. The water level returned to within setpoint range on January 7, February 6, February 23, and February 26, respectively.
- The water level in PW-2L, PW-2UR, PW-3L, and PW-6UR exceeded setpoint range on March 12 due to a false leak detection alarm. The issue was resolved and the water level returned to within setpoint range on March 13.

If you have any questions, please feel free to contact me at (231) 670-6809 or by email at [joseph\\_branch@oxy.com](mailto:joseph_branch@oxy.com).

Very truly yours,

April 26, 2024

Reference No. 11230216

- 3 -

GLENN SPRINGS HOLDINGS, INC.

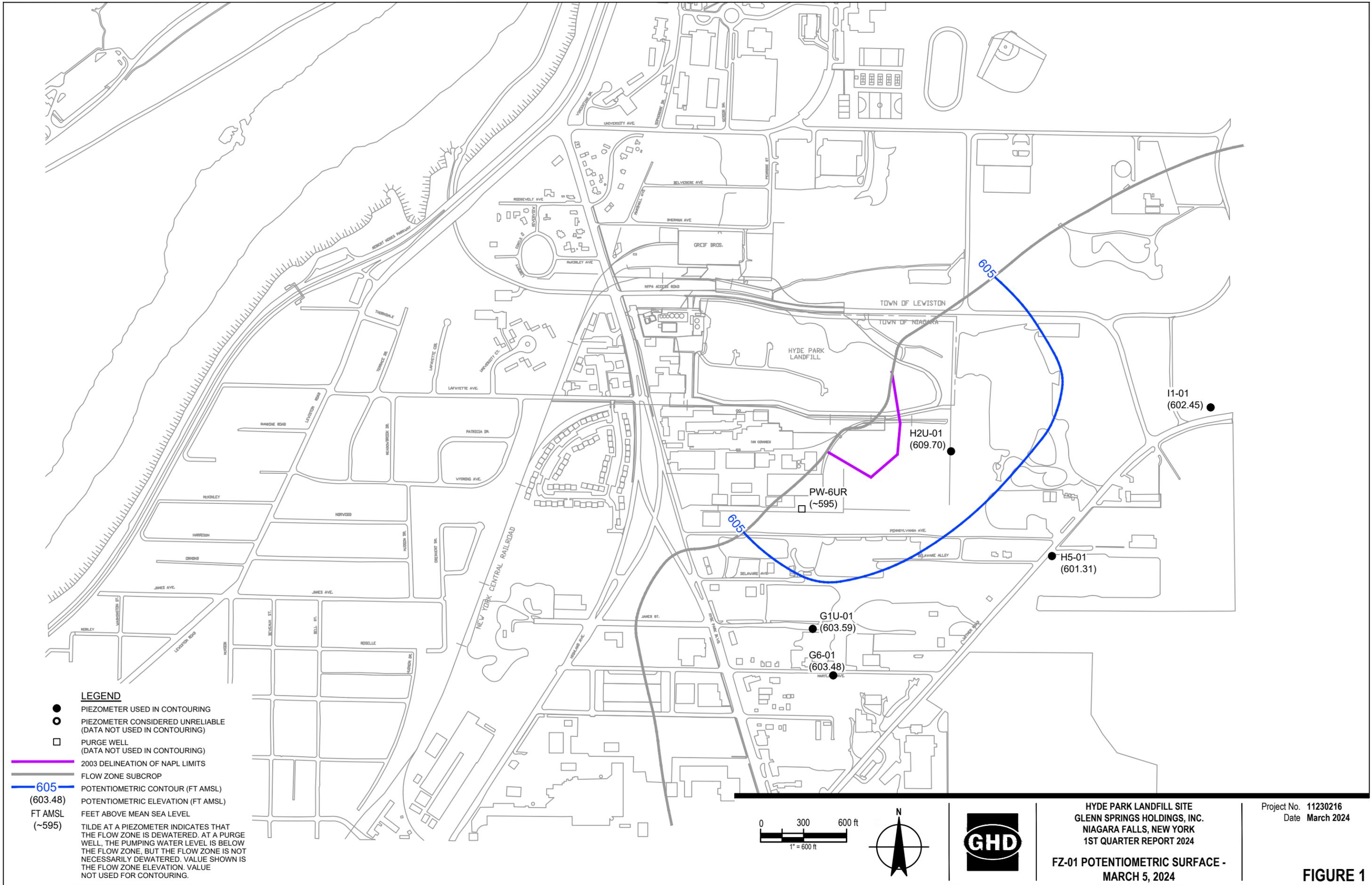
A handwritten signature in cursive script that reads "Joe Branch".

Joe Branch  
Project Manager  
231-670-6809 Cell

JB/11  
Encl.

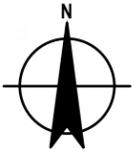
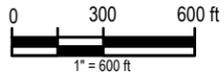
cc: B. McPherson, NYSDEC  
J. Robinson, NYSDOH

J. Pentilchuk, GHD  
M. Popek, GHD



**LEGEND**

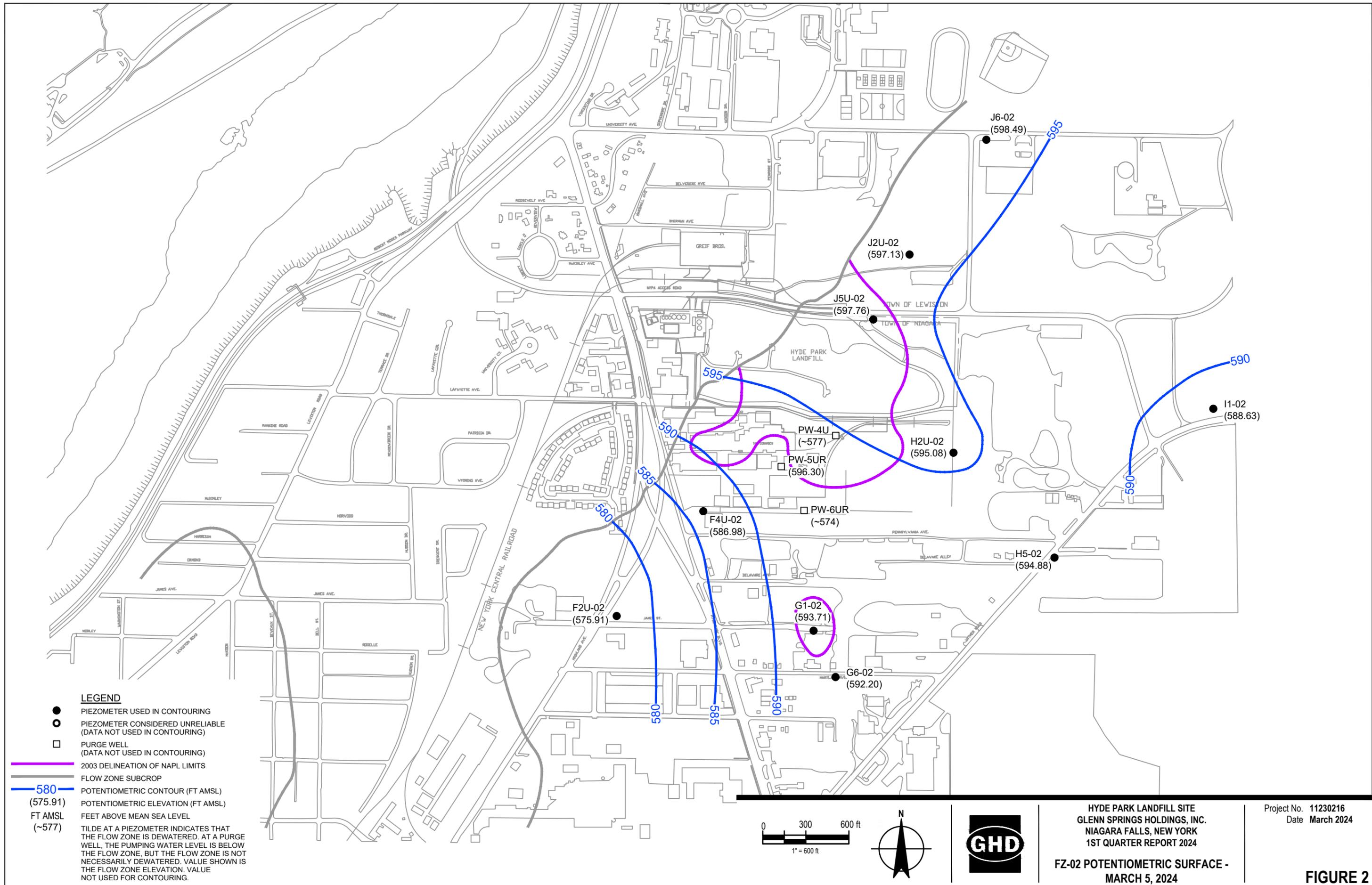
- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- 605 POTENTIOMETRIC CONTOUR (FT AMSL)
- (603.48) POTENTIOMETRIC ELEVATION (FT AMSL)
- FT AMSL FEET ABOVE MEAN SEA LEVEL
- ~ TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.

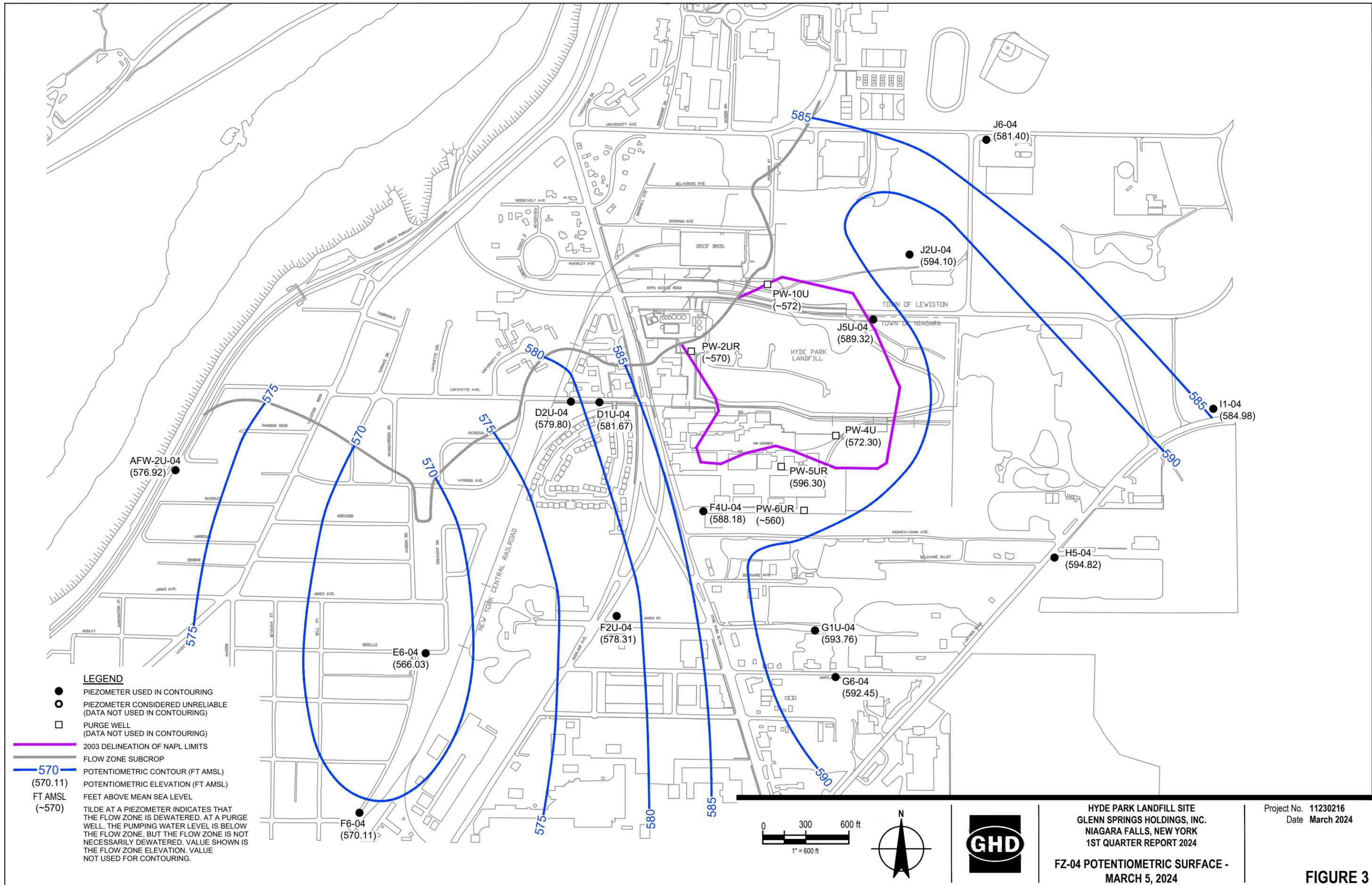


HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 1ST QUARTER REPORT 2024  
 FZ-01 POTENTIOMETRIC SURFACE -  
 MARCH 5, 2024

Project No. 11230216  
 Date March 2024

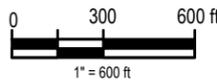
**FIGURE 1**





**LEGEND**

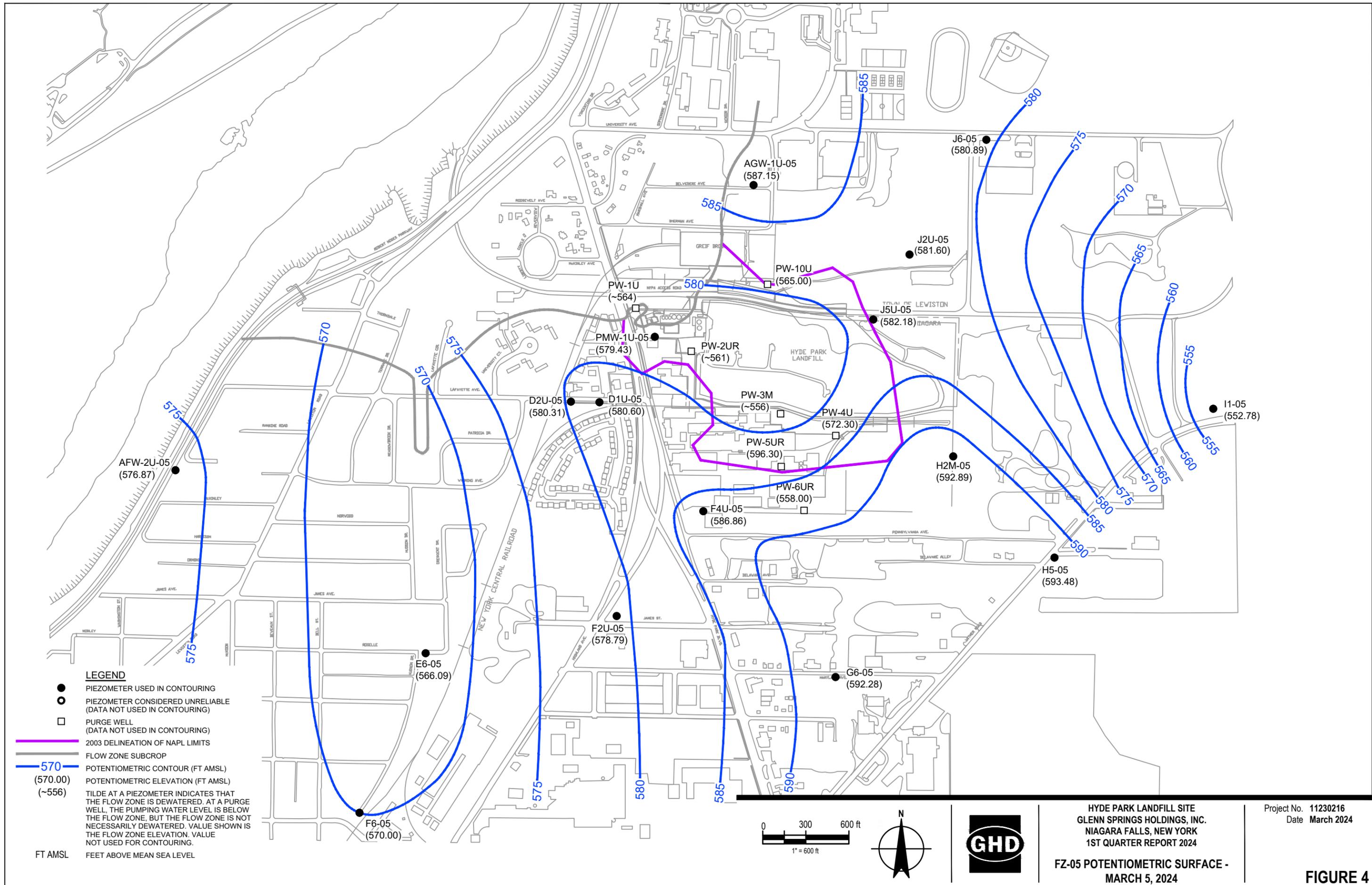
- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- 570 POTENTIOMETRIC CONTOUR (FT AMSL)
- (570.11) POTENTIOMETRIC ELEVATION (FT AMSL)
- FT AMSL FEET ABOVE MEAN SEA LEVEL
- (~570) TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.

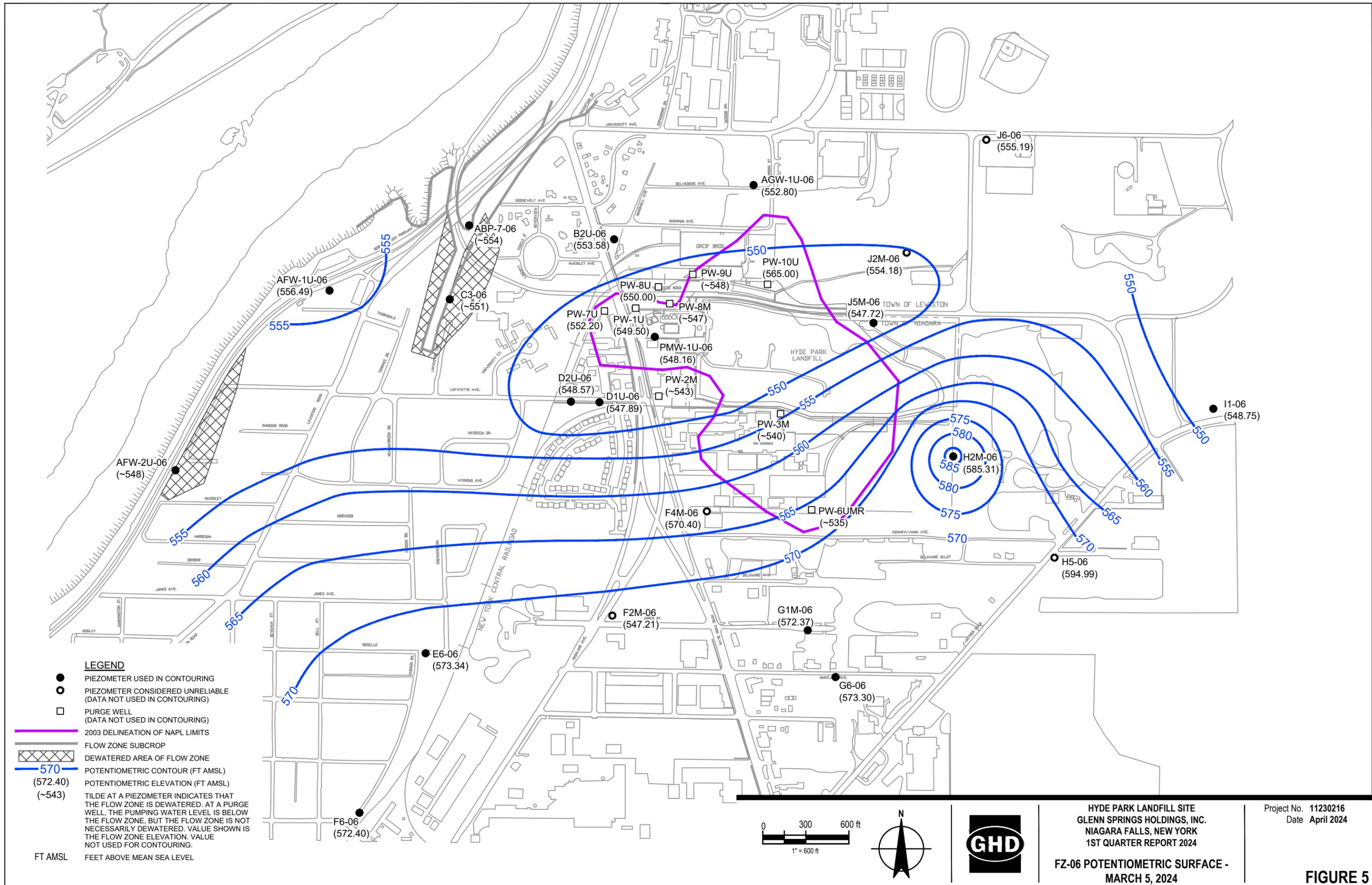


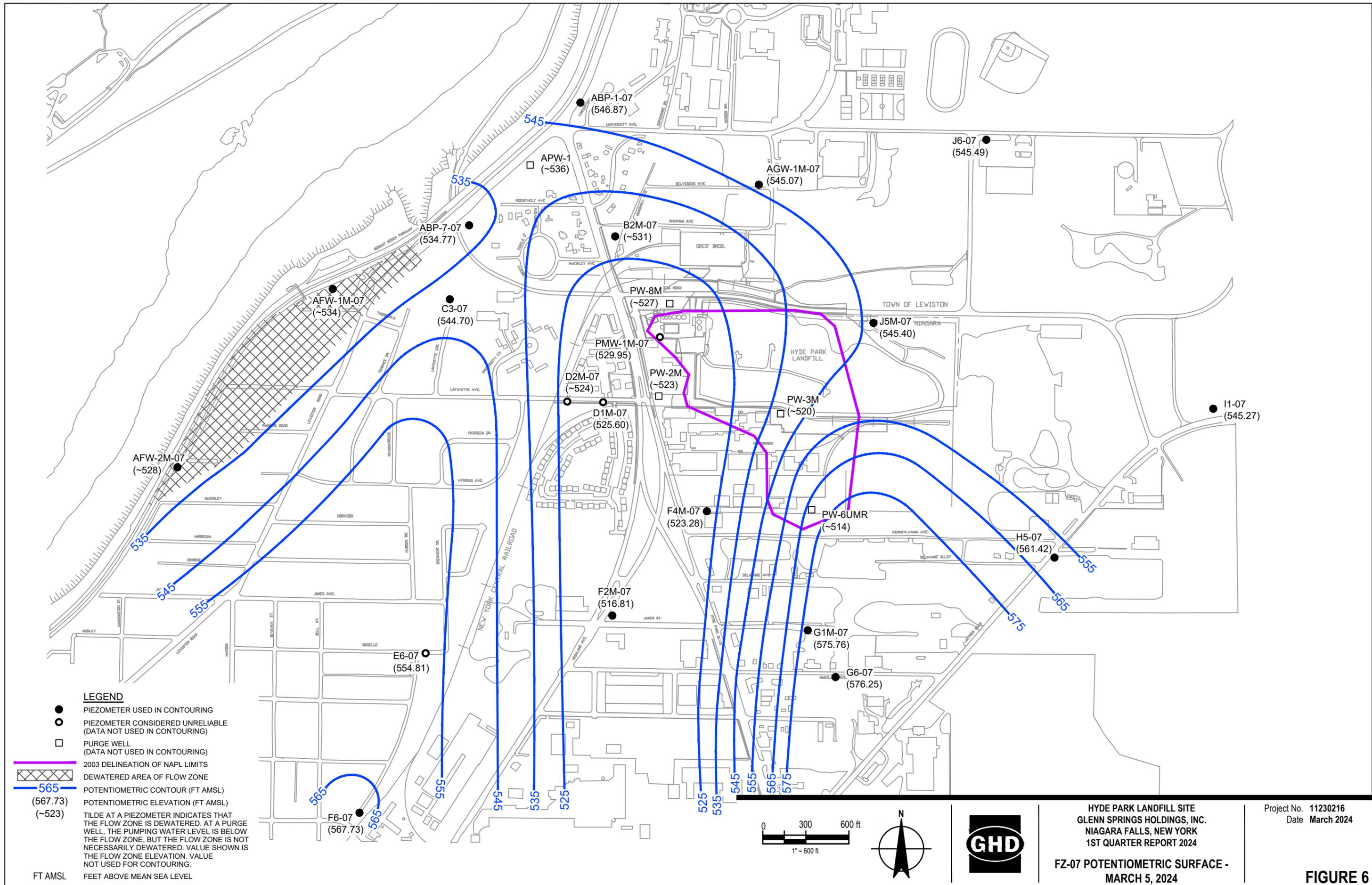
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 1ST QUARTER REPORT 2024  
 FZ-04 POTENTIOMETRIC SURFACE -  
 MARCH 5, 2024

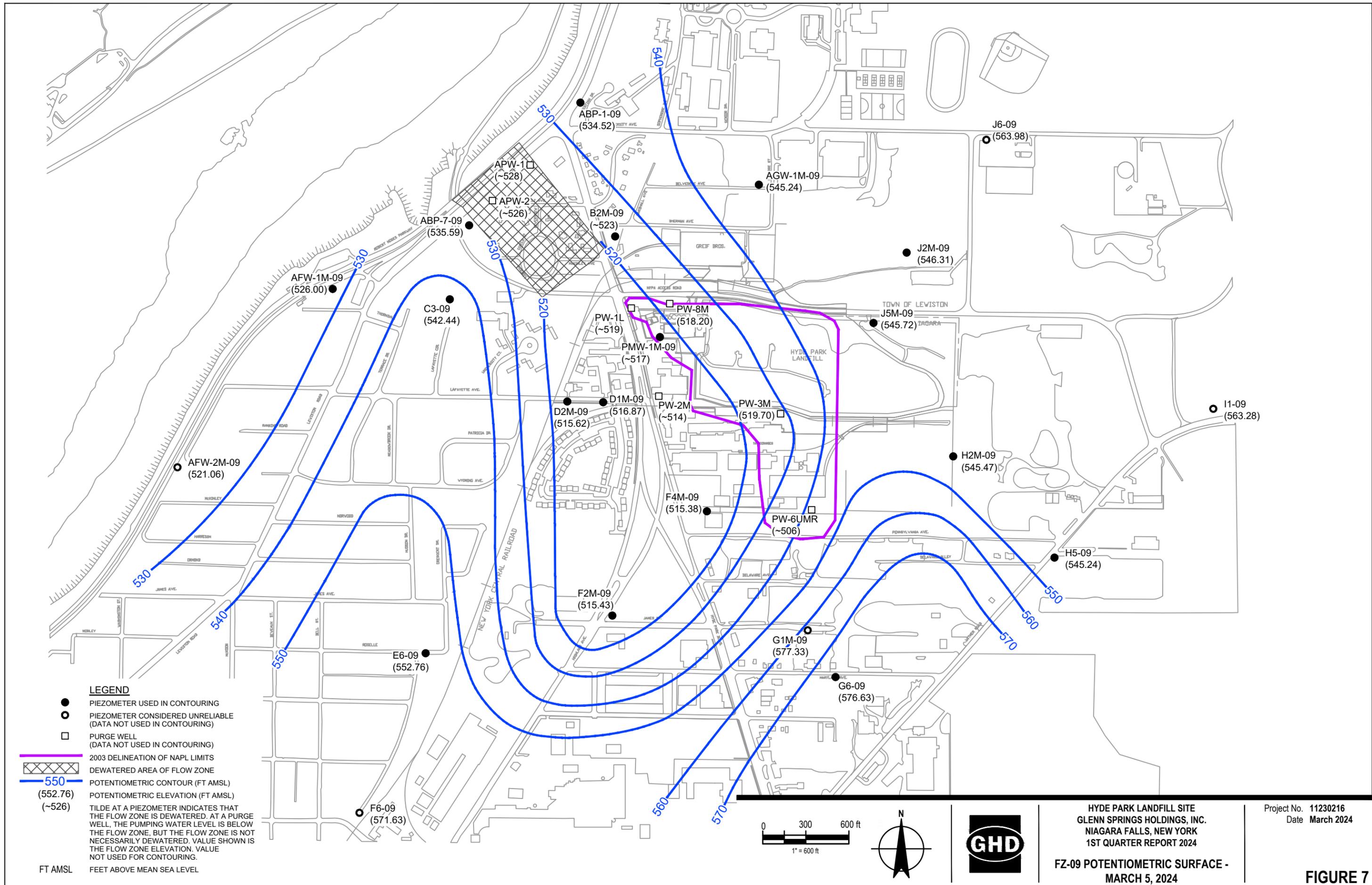
Project No. 11230216  
 Date March 2024

**FIGURE 3**



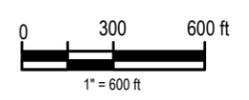






**LEGEND**

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- ▨ 2003 DELINEATION OF NAPL LIMITS
- ▭ DEWATERED AREA OF FLOW ZONE
- 550 POTENTIOMETRIC CONTOUR (FT AMSL)
- (552.76) POTENTIOMETRIC ELEVATION (FT AMSL)
- (~526) TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.
- FT AMSL FEET ABOVE MEAN SEA LEVEL



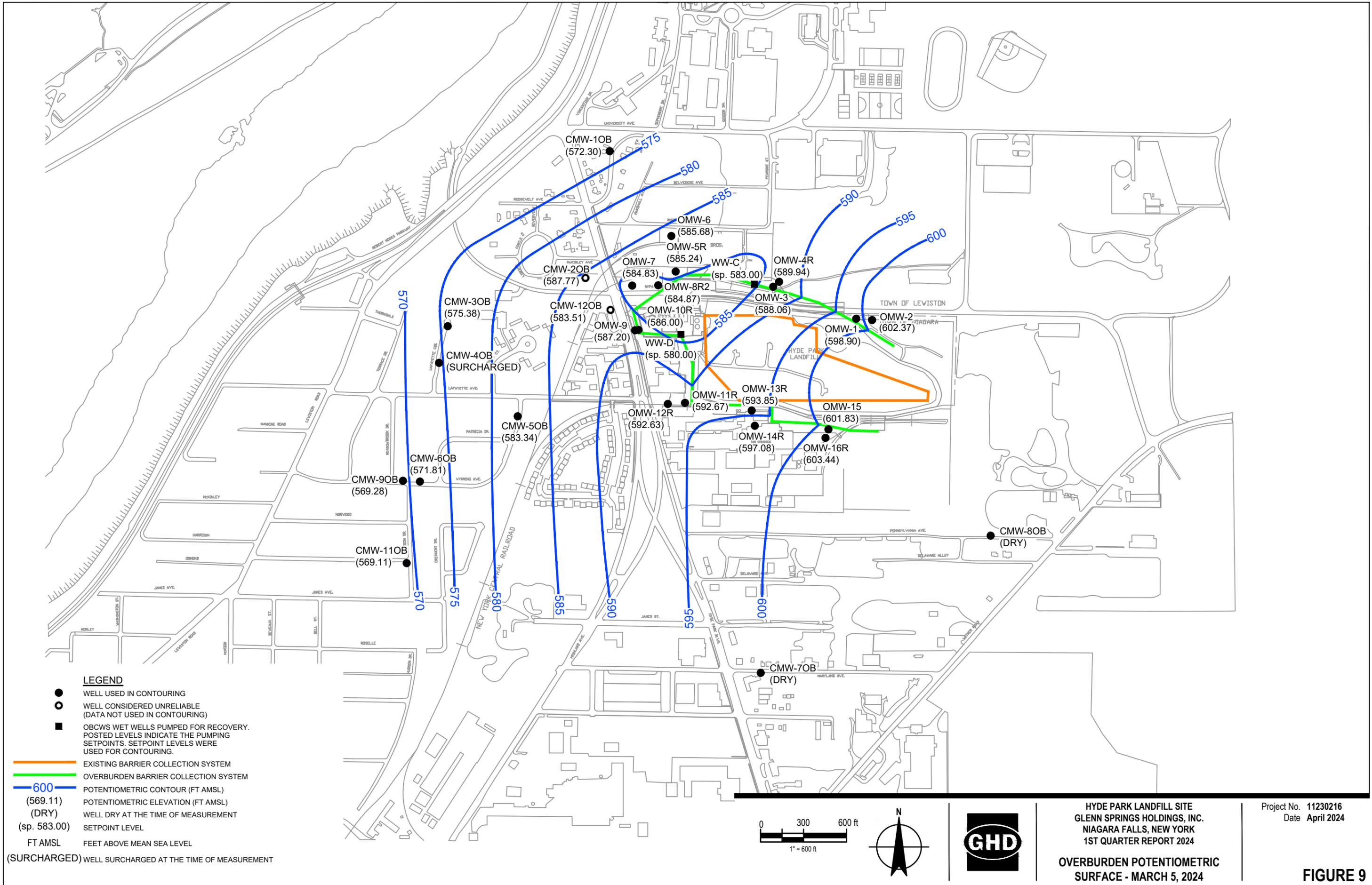
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 1ST QUARTER REPORT 2024  
 FZ-09 POTENTIOMETRIC SURFACE -  
 MARCH 5, 2024

Project No. 11230216  
 Date March 2024

**FIGURE 7**

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\56411230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zwack\0311230216-GHD-00-00-LTR-EN-D107\_WA-Wurtz-Zwack\03.dwg  
 Plot Date: 25 March 2024 8:44 AM





**OVERBURDEN POTENTIOMETRIC SURFACE - MARCH 5, 2024**

**FIGURE 9**

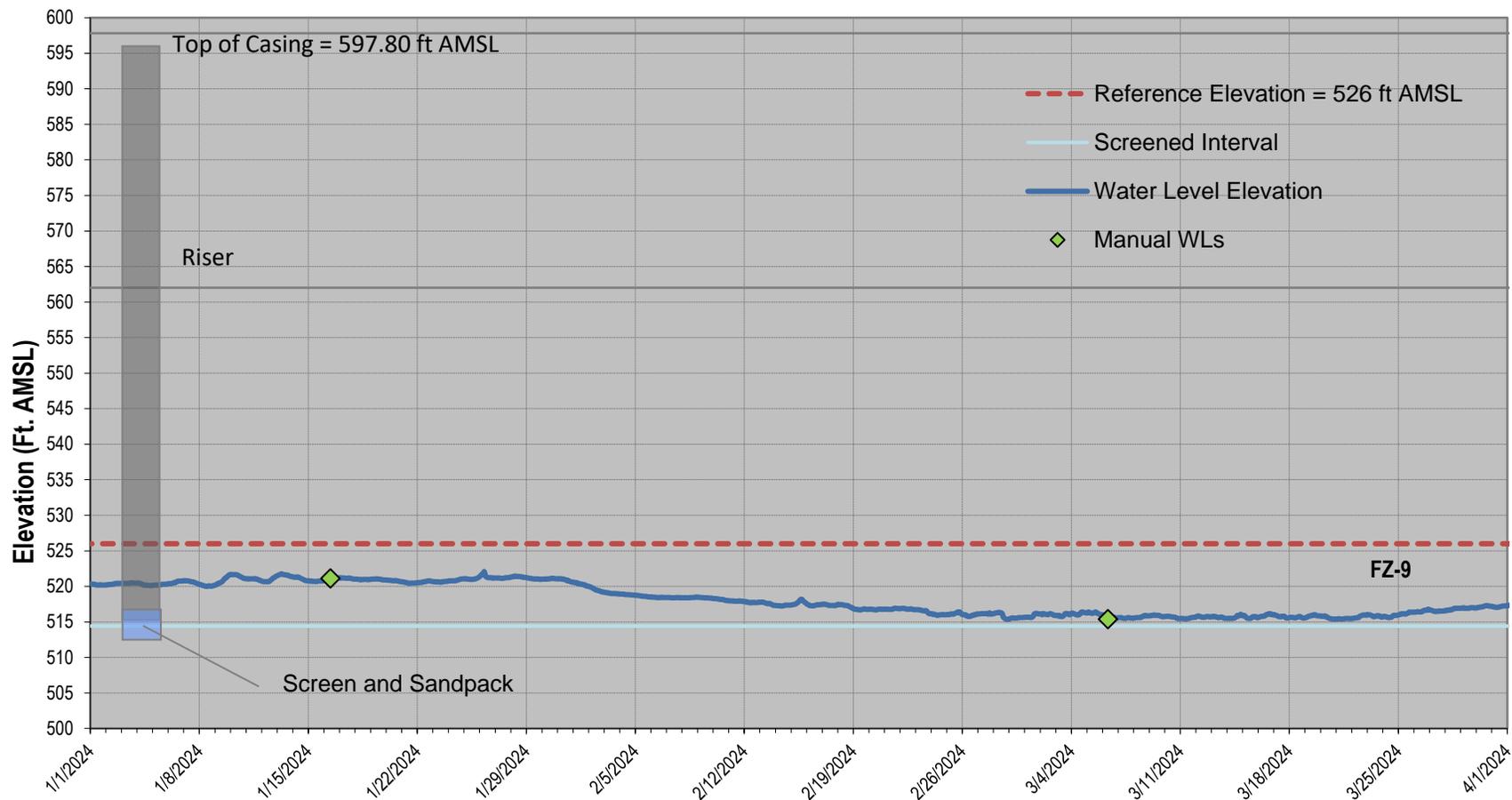


figure 10

PMW-1M-09 1st Quarter 2024 - Hourly Water Level Elevation  
 1st Quarter Report  
 Hyde Park Landfill Site  
 Glenn Springs Holdings, Inc.

**Groundwater Elevation Summary  
First Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>       | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|-------------------|--|--------------------------------|--|
| <b>Overburden</b> |  |                                |  |
| CMW-2OB           | 590.79                                   | 3.02                           | 587.77                                     |
| CMW-3OB           | 582.13                                   | 6.75                           | 575.38                                     |
| CMW-4OB           | 574.28                                   | Surcharged                     | -  |
| CMW-5OB           | 583.43                                   | 0.09                           | 583.34                                     |
| CMW-6OB           | 571.89                                   | 0.08                           | 571.81                                     |
| CMW-7OB           | 611.00                                   | Dry                            | -  |
| CMW-8OB           | 616.11                                   | Dry                            | -  |
| CMW-9OB           | 571.76                                   | 2.48                           | 569.28                                     |
| CMW-1OB           | 576.80                                   | 4.50                           | 572.30                                     |
| CMW-11OB          | 572.85                                   | 3.74                           | 569.11                                     |
| CMW-12OB          | 594.74                                   | 11.23                          | 583.51                                     |
| MH20              | 605.87                                   | 4.61                           | 601.26                                     |
| MH21              | 599.77                                   | 6.01                           | 593.76                                     |
| MH22              | 593.37                                   | Dry                            | -  |
| MH23              | 587.05                                   | Dry                            | -  |
| MH24              | 582.57                                   | 7.68                           | 574.89                                     |
| MH25              | 583.82                                   | 7.25                           | 576.57                                     |
| MH26              | 584.48                                   | 8.80                           | 575.68                                     |
| MH27              | 586.12                                   | 10.64                          | 575.48                                     |
| MH28              | 585.23                                   | 16.08                          | 569.15                                     |
| MH29              | 604.58                                   | 14.95                          | 589.63                                     |
| MH30              | 599.49                                   | Dry                            | -  |
| MH31              | 590.10                                   | Dry                            | -  |
| MH32              | 592.01                                   | Dry                            | -  |
| MH33              | 592.51                                   | Dry                            | -  |
| MH34              | 598.34                                   | Dry                            | -  |
| MH35              | 605.69                                   | Dry                            | -  |
| MH35A             | 605.69                                   | Dry                            | -  |
| OMW-1             | 605.28                                   | 6.38                           | 598.90                                     |
| OMW-2             | 605.99                                   | 3.62                           | 602.37                                     |
| OMW-3             | 598.63                                   | 10.57                          | 588.06                                     |
| OMW-4R            | 601.17                                   | 11.23                          | 589.94                                     |
| OMW-5R            | 591.31                                   | 6.07                           | 585.24                                     |
| OMW-6             | 587.62                                   | 1.94                           | 585.68                                     |
| OMW-7             | 592.74                                   | 7.91                           | 584.83                                     |
| OMW-8R2           | 594.67                                   | 9.80                           | 584.87                                     |
| OMW-9             | 595.27                                   | 8.07                           | 587.20                                     |
| OMW-10R           | 595.13                                   | 9.13                           | 586.00                                     |
| OMW-11R           | 597.52                                   | 4.85                           | 592.67                                     |
| OMW-12R           | 596.71                                   | 4.08                           | 592.63                                     |
| OMW-13R           | 601.50                                   | 7.65                           | 593.85                                     |
| OMW-14R           | 599.64                                   | 2.56                           | 597.08                                     |
| OMW-15            | 607.48                                   | 5.65                           | 601.83                                     |
| OMW-16R           | 607.62                                   | 4.18                           | 603.44                                     |
| SC-2              | 625.61                                   | 22.22                          | 603.39                                     |
| SC-3              | 638.72                                   | 39.72                          | 599.00                                     |
| SC-4              | 639.35                                   | 39.70                          | 599.65                                     |
| SC-5              | 634.07                                   | 31.65                          | 602.42                                     |
| SC-6              | 631.15                                   | 20.65                          | 610.50                                     |

**Groundwater Elevation Summary  
First Quarter - 2024  
Hyde Park RRT Program**

| Well                   | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|------------------------|----------------------------------|------------------------|------------------------------------|
| <b>Shallow Bedrock</b> |                                  |                        |                                    |
| CMW-1SH                | 576.11                           | 12.36                  | 563.75                             |
| CMW-2SH                | 590.51                           | 18.36                  | 572.15                             |
| CMW-3SH                | 581.91                           | 27.79                  | 554.12                             |
| CMW-4SH                | 574.16                           | 7.00                   | 567.16                             |
| CMW-5SH                | 583.36                           | 5.49                   | 577.87                             |
| CMW-6SH                | 572.05                           | 9.97                   | 562.08                             |
| CMW-7SH                | 610.58                           | 12.00                  | 598.58                             |
| CMW-8SH                | 615.95                           | 6.86                   | 609.09                             |
| CMW-9SH                | 571.96                           | 12.01                  | 559.95                             |
| CMW-11SH               | 573.21                           | 8.00                   | 565.21                             |
| CMW-12SH               | 597.02                           | 26.11                  | 570.91                             |
| <b>Flow Zone 1</b>     |                                  |                        |                                    |
| G1U-01                 | 617.08                           | 13.49                  | 603.59                             |
| G6-01                  | 609.24                           | 5.76                   | 603.48                             |
| H2U-01                 | 620.92                           | 11.22                  | 609.70                             |
| H5-01                  | 617.61                           | 16.30                  | 601.31                             |
| I1-01                  | 625.58                           | 23.13                  | 602.45                             |
| <b>Flow Zone 2</b>     |                                  |                        |                                    |
| F2U-02                 | 599.89                           | 23.98                  | 575.91                             |
| F4U-02                 | 602.32                           | 15.34                  | 586.98                             |
| G1-02                  | 616.86                           | 23.15                  | 593.71                             |
| G6-02                  | 608.65                           | 16.45                  | 592.20                             |
| H2U-02                 | 620.88                           | 25.80                  | 595.08                             |
| H5-02                  | 617.47                           | 22.59                  | 594.88                             |
| I1-02                  | 625.47                           | 36.84                  | 588.63                             |
| J2U-02                 | 609.66                           | 12.53                  | 597.13                             |
| J5U-02                 | 606.21                           | 8.45                   | 597.76                             |
| J6-02                  | 609.23                           | 10.74                  | 598.49                             |
| <b>Flow Zone 4</b>     |                                  |                        |                                    |
| AFW-2U-04              | 593.48                           | 16.56                  | 576.92                             |
| D1U-04                 | 593.77                           | 12.10                  | 581.67                             |
| D2U-04                 | 590.65                           | 10.85                  | 579.80                             |
| E6-04                  | 578.23                           | 12.20                  | 566.03                             |
| F2U-04                 | 599.76                           | 21.45                  | 578.31                             |
| F4U-04                 | 602.19                           | 14.01                  | 588.18                             |
| F6-04                  | 588.06                           | 17.95                  | 570.11                             |
| G1U-04                 | 616.96                           | 23.20                  | 593.76                             |
| G6-04                  | 609.15                           | 16.70                  | 592.45                             |
| H5-04                  | 617.40                           | 22.58                  | 594.82                             |
| I1-04                  | 625.30                           | 40.32                  | 584.98                             |
| J2U-04                 | 609.42                           | 15.32                  | 594.10                             |
| J5U-04                 | 606.05                           | 16.73                  | 589.32                             |
| J6-04                  | 609.12                           | 27.72                  | 581.40                             |

**Groundwater Elevation Summary  
First Quarter - 2024  
Hyde Park RRT Program**

| Well               | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|--------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 5</b> |                                  |                        |                                    |
| AFW-2U-05          | 593.33                           | 16.46                  | 576.87                             |
| AGW-1U-05          | 591.80                           | 4.65                   | 587.15                             |
| D1U-05             | 593.51                           | 12.91                  | 580.60                             |
| D2U-05             | 590.56                           | 10.25                  | 580.31                             |
| E6-05              | 578.04                           | 11.95                  | 566.09                             |
| F2U-05             | 599.64                           | 20.85                  | 578.79                             |
| F4U-05             | 602.06                           | 15.20                  | 586.86                             |
| F6-05              | 587.85                           | 17.85                  | 570.00                             |
| G6-05              | 609.13                           | 16.85                  | 592.28                             |
| H2M-05             | 621.59                           | 28.70                  | 592.89                             |
| H5-05              | 617.31                           | 23.83                  | 593.48                             |
| I1-05              | 625.25                           | 72.47                  | 552.78                             |
| J2U-05             | 609.30                           | 27.70                  | 581.60                             |
| J5U-05             | 605.87                           | 23.69                  | 582.18                             |
| J6-05              | 609.02                           | 28.13                  | 580.89                             |
| PMW-1U-05          | 598.00                           | 18.57                  | 579.43                             |
| <b>Flow Zone 6</b> |                                  |                        |                                    |
| ABP-7-06           | 575.78                           | Dry                    | -                                  |
| AFW-1U-06          | 571.83                           | 15.34                  | 556.49                             |
| AFW-2U-06          | 593.22                           | 47.95                  | 545.27                             |
| AGW-1U-06          | 591.66                           | 38.86                  | 552.80                             |
| B2U-06             | 589.29                           | 35.71                  | 553.58                             |
| C3-06              | 585.78                           | Dry                    | -                                  |
| D1U-06             | 593.25                           | 45.36                  | 547.89                             |
| D2U-06             | 590.38                           | 41.81                  | 548.57                             |
| E6-06              | 577.99                           | 4.65                   | 573.34                             |
| F2M-06             | 599.06                           | 51.85                  | 547.21                             |
| F4M-06             | 602.05                           | 31.65                  | 570.40                             |
| F6-06              | 587.84                           | 15.44                  | 572.40                             |
| G1M-06             | 616.75                           | 44.38                  | 572.37                             |
| G6-06              | 609.09                           | 35.79                  | 573.30                             |
| H2M-06             | 621.42                           | 36.11                  | 585.31                             |
| H5-06              | 617.17                           | 22.18                  | 594.99                             |
| I1-06              | 625.15                           | 76.40                  | 548.75                             |
| J2M-06             | 608.94                           | 54.76                  | 554.18                             |
| J5M-06             | 606.22                           | 58.50                  | 547.72                             |
| J6-06              | 608.93                           | 53.74                  | 555.19                             |
| PMW-1U-06          | 597.92                           | 49.76                  | 548.16                             |

**Groundwater Elevation Summary  
First Quarter - 2024  
Hyde Park RRT Program**

| Well               | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|--------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 7</b> |                                  |                        |                                    |
| ABP-1-07           | 575.20                           | 28.33                  | 546.87                             |
| ABP-7-07           | 575.73                           | 40.96                  | 534.77                             |
| AFW-1M-07          | 571.41                           | Dry                    | -                                  |
| AFW-2M-07          | 593.44                           | 66.81                  | 526.63                             |
| AGW-1M-07          | 592.91                           | 47.84                  | 545.07                             |
| B2M-07             | 589.52                           | 59.08                  | 530.44                             |
| C3-07              | 585.62                           | 40.92                  | 544.70                             |
| D1M-07             | 594.15                           | 68.55                  | 525.60                             |
| D2M-07             | 590.77                           | 67.75                  | 523.02                             |
| E6-07              | 577.91                           | 23.10                  | 554.81                             |
| F2M-07             | 598.91                           | 82.10                  | 516.81                             |
| F4M-07             | 601.91                           | 78.63                  | 523.28                             |
| F6-07              | 587.68                           | 19.95                  | 567.73                             |
| G1M-07             | 616.68                           | 40.92                  | 575.76                             |
| G6-07              | 609.06                           | 32.81                  | 576.25                             |
| H5-07              | 617.05                           | 55.63                  | 561.42                             |
| I1-07              | 625.14                           | 79.87                  | 545.27                             |
| J5M-07             | 606.07                           | 60.67                  | 545.40                             |
| J6-07              | 608.85                           | 63.36                  | 545.49                             |
| PMW-1M-07          | 598.50                           | 68.55                  | 529.95                             |
| <b>Flow Zone 9</b> |                                  |                        |                                    |
| ABP-1-09           | 575.19                           | 40.67                  | 534.52                             |
| ABP-7-09           | 575.67                           | 40.08                  | 535.59                             |
| AFW-1M-09          | 571.12                           | 45.12                  | 526.00                             |
| AFW-2M-09          | 593.32                           | 72.26                  | 521.06                             |
| AGW-1M-09          | 592.75                           | 47.51                  | 545.24                             |
| B2M-09             | 589.34                           | Dry                    | -                                  |
| C3-09              | 585.00                           | 42.56                  | 542.44                             |
| D1M-09             | 594.02                           | 77.15                  | 516.87                             |
| D2M-09             | 590.66                           | 75.04                  | 515.62                             |
| E6-09              | 577.82                           | 25.06                  | 552.76                             |
| F2M-09             | 598.71                           | 83.28                  | 515.43                             |
| F4M-09             | 601.79                           | 86.41                  | 515.38                             |
| F6-09              | 587.53                           | 15.90                  | 571.63                             |
| G1M-09             | 616.58                           | 39.25                  | 577.33                             |
| G6-09              | 608.98                           | 32.35                  | 576.63                             |
| H2M-09             | 621.32                           | 75.85                  | 545.47                             |
| H5-09              | 616.93                           | 71.69                  | 545.24                             |
| I1-09              | 624.91                           | 61.63                  | 563.28                             |
| J2M-09             | 608.77                           | 62.46                  | 546.31                             |
| J5M-09             | 605.82                           | 60.10                  | 545.72                             |
| J6-09              | 608.76                           | 44.78                  | 563.98                             |
| PMW-1M-09          | 598.34                           | 82.00                  | 516.34                             |

**Groundwater Elevation Summary  
First Quarter - 2024  
Hyde Park RRT Program**

| Well                | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|---------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 11</b> |                                  |                        |                                    |
| AFW-1L-11           | 572.10                           | 63.96                  | 508.14                             |
| AFW-2L-11           | 593.43                           | 97.05                  | 496.38                             |
| AGW-1L-11           | 592.71                           | 6.80                   | 585.91                             |
| B2L-11              | 589.65                           | 88.67                  | 500.98                             |
| D1L-11              | 593.80                           | 90.29                  | 503.51                             |
| D2L-11              | 590.21                           | 65.67                  | 524.54                             |
| E6-11               | 577.72                           | 45.75                  | 531.97                             |
| F2L-11              | 598.94                           | 43.09                  | 555.85                             |
| F4L-11              | 602.22                           | 32.85                  | 569.37                             |
| F6-11               | 587.40                           | 59.80                  | 527.60                             |
| G1L-11              | 616.84                           | 64.12                  | 552.72                             |
| G6-11               | 608.89                           | 52.70                  | 556.19                             |
| H2L-11              | 620.73                           | 67.43                  | 553.30                             |
| H5-11               | 616.81                           | 74.74                  | 542.07                             |
| I1-11               | 624.75                           | 77.26                  | 547.49                             |
| J5L-11              | 607.20                           | 64.36                  | 542.84                             |
| J6-11               | 608.68                           | 22.77                  | 585.91                             |
| PMW-1L-11           | 598.84                           | 85.36                  | 513.48                             |
| <b>Purge Wells</b>  |                                  |                        |                                    |
| APW-1               | 564.98                           | 55.18                  | 509.80                             |
| APW-2               | 569.89                           | 44.79                  | 525.10                             |
| PW-1L               | 593.16                           | 94.36                  | 498.80                             |
| PW-1U               | 593.50                           | 44.00                  | 549.50                             |
| PW-2L               | 597.29                           | 102.29                 | 495.00                             |
| PW-2M               | 596.61                           | 85.61                  | 511.00                             |
| PW-2UR              | 594.75                           | 35.75                  | 559.00                             |
| PW-3L               | 599.05                           | 100.05                 | 499.00                             |
| PW-3M               | 597.79                           | 78.09                  | 519.70                             |
| PW-4M               | 606.93                           | 82.63                  | 524.30                             |
| PW-4U               | 604.85                           | 32.55                  | 572.30                             |
| PW-5UR              | 601.31                           | 5.01                   | 596.30                             |
| PW-6UMR             | 609.31                           | 106.31                 | 503.00                             |
| PW-6UR              | 608.47                           | 50.47                  | 558.00                             |
| PW-7U               | 592.47                           | 40.27                  | 552.20                             |
| PW-8M               | 592.67                           | 74.47                  | 518.20                             |
| PW-8U               | 589.27                           | 39.27                  | 550.00                             |
| PW-9U               | 587.47                           | 43.47                  | 544.00                             |
| PW-10U              | 593.54                           | 28.54                  | 565.00                             |

## Notes:

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

**Leachate Treatment System Daily Effluent Monitoring Data  
First Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 01/01/24 | 7.5        | 139,000       |
| 01/02/24 | 7.3        | 169,000       |
| 01/03/24 | 7.5        | 169,000       |
| 01/04/24 | 7.5        | 166,000       |
| 01/05/24 |            |               |
| 01/06/24 |            |               |
| 01/07/24 |            |               |
| 01/08/24 | 7.9        | 157,000       |
| 01/09/24 | 7.7        | 162,000       |
| 01/10/24 | 7.7        | 161,000       |
| 01/11/24 | 7.6        | 157,000       |
| 01/12/24 | 7.6        | 155,000       |
| 01/13/24 | 7.7        | 149,000       |
| 01/14/24 | 7.4        | 148,000       |
| 01/15/24 | 7.4        | 146,000       |
| 01/16/24 | 7.5        | 159,000       |
| 01/17/24 | 7.7        | 162,000       |
| 01/18/24 | 7.4        | 161,000       |
| 01/19/24 | 7.6        | 17,000        |
| 01/20/24 |            |               |
| 01/21/24 |            |               |
| 01/22/24 | 8.0        | 149,000       |
| 01/23/24 | 7.7        | 154,000       |
| 01/24/24 | 7.6        | 152,000       |
| 01/25/24 | 7.5        | 195,000       |
| 01/26/24 | 7.7        | 167,000       |
| 01/27/24 |            |               |
| 01/28/24 |            |               |
| 01/29/24 | 7.4        | 190,000       |
| 01/30/24 | 7.7        | 214,000       |
| 01/31/24 | 7.7        | 198,000       |
| 02/01/24 | 7.7        | 188,000       |
| 02/02/24 | 7.6        | 194,000       |
| 02/03/24 |            |               |
| 02/04/24 |            |               |
| 02/05/24 | 7.8        | 184,000       |
| 02/06/24 | 7.6        | 184,000       |

**Leachate Treatment System Daily Effluent Monitoring Data  
First Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 02/07/24 | 7.7        | 177,000       |
| 02/08/24 | 7.6        | 168,000       |
| 02/09/24 | 7.6        | 174,000       |
| 02/10/24 |            |               |
| 02/11/24 |            |               |
| 02/12/24 | 7.2        | 154,000       |
| 02/13/24 | 7.7        | 171,000       |
| 02/14/24 | 7.4        | 155,000       |
| 02/15/24 |            |               |
| 02/16/24 |            |               |
| 02/17/24 |            |               |
| 02/18/24 |            |               |
| 02/19/24 | 7.3        | 160,000       |
| 02/20/24 | 7.6        | 162,000       |
| 02/21/24 |            |               |
| 02/22/24 |            |               |
| 02/23/24 |            |               |
| 02/24/24 |            |               |
| 02/25/24 |            |               |
| 02/26/24 |            |               |
| 02/27/24 | 7.7        | 209,000       |
| 02/28/24 | 7.7        | 212,000       |
| 02/29/24 |            |               |
| 03/01/24 |            |               |
| 03/02/24 |            |               |
| 03/03/24 |            |               |
| 03/04/24 |            |               |
| 03/05/24 | 7.7        | 164,000       |
| 03/06/24 | 7.6        | 202,000       |
| 03/07/24 |            |               |
| 03/08/24 |            |               |
| 03/09/24 |            |               |
| 03/10/24 |            |               |
| 03/11/24 |            |               |
| 03/12/24 | 7.3        | 170,000       |
| 03/13/24 | 7.7        | 185,000       |
| 03/14/24 |            |               |

**Leachate Treatment System Daily Effluent Monitoring Data  
First Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent     |                  |
|----------|--------------|------------------|
|          | pH<br>(su)   | Flow<br>(gal)    |
| 03/15/24 |              |                  |
| 03/16/24 |              |                  |
| 03/17/24 |              |                  |
| 03/18/24 | 7.5          | 145,000          |
| 03/19/24 | 7.6          | 170,000          |
| 03/20/24 | 7.7          | 169,000          |
| 03/21/24 | 7.7          | 43,000           |
| 03/22/24 |              |                  |
| 03/23/24 |              |                  |
| 03/24/24 |              |                  |
| 03/25/24 |              |                  |
| 03/26/24 | 7.5          | 158,000          |
| 03/27/24 | 7.5          | 156,000          |
| 03/28/24 | 7.7          | 40,000           |
| 03/29/24 |              |                  |
| 03/30/24 |              |                  |
| 03/31/24 |              |                  |
|          | <b>Total</b> | <b>7,890,000</b> |

Notes:

- su - Standard Unit
- gal - Gallons

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**First Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 01/03/2024 | 01/10/2024 | 01/17/2024 | 01/24/2024 | 01/31/2024 | 02/07/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 0.39 J     | 0.31 J     |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.42 J     | 0.43 J     | 0.38 J     | 0.29 J     | 0.59 J     | 0.55 J     |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 0.22 J     | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 2.5        | 2.5        | 2.4        | 2.4        | 2.5        | 2.4        |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 6.6        | 6.8        | 6.7        | 6.9        | 7.5        | 7.3        |
|                          | 1,2-Dichloropropane              | µg/L  | 0.58 J     | 0.58 J     | 0.67 J     | 0.62 J     | 0.82 J     | 0.86 J     |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | Benzene                          | µg/L  | 16         | 16         | 18         | 17         | 27         | 27         |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 1.0 U      | 1.0 U      | 0.80 J     | 1.0 U      | 2.3        | 1.0 U      |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 5.2        | 4.9        | 4.5        | 4.1        | 6.4        | 5.1        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 1.6        | 1.6        | 1.4        | 1.5        | 1.7        | 1.9        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 0.23 J     | 1.0 U      |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 1.0 U      |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 18         | 19         | 16         | 16         | 19         | 16         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0091     | 0.0236     | 0.0086     | 0.0116     | 0.0219     | 0.0086     |

## Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**First Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 02/14/2024 | 02/21/2024 | 02/28/2024 | 03/06/2024 | 03/13/2024 | 03/20/2024 | 03/27/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 0.33 J     | 0.27 J     | 0.29 J     | 0.26 J     | 0.24 J     | 0.25 J     | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.57 J     | 0.43 J     | 0.49 J     | 0.48 J     | 0.38 J     | 0.50 J     | 0.40 J     |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 2.3        | 2.3        | 2.6        | 2.7        | 2.7        | 2.4        | 2.3        |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 8.2        | 7.8        | 8.3        | 9.0        | 8.2        | 7.2        | 7.1        |
|                          | 1,2-Dichloropropane              | µg/L  | 0.77 J     | 0.79 J     | 0.87 J     | 0.83 J     | 0.84 J     | 0.81 J     | 0.82 J     |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | Benzene                          | µg/L  | 29         | 26         | 31         | 30         | 29         | 29         | 27         |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 0.87 J     | 1.0 U      |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 4.4        | 4.5        | 4.8        | 4.6        | 4.2        | 3.5        | 2.9        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 1.9        | 1.6        | 2.0        | 2.1        | 2.0        | 1.9        | 1.8        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 1.0 U      |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 0.23 J     | 1.0 U      | 1.0 U      | 0.23 J     | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 17         | 5.5        | 18         | 19         | 18         | 15         | 15         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0111     | 0.0122     | 0.0071     | 0.0063     | 0.0082     | 0.0082     | 0.0084     |

## 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**  
**First Quarter - 2024**  
**Hyde Park RRT Program**

|                         |                     |
|-------------------------|---------------------|
| <b>Sample Location:</b> | <b>EFFLUENT</b>     |
| <b>Sample ID:</b>       | <b>HP 32034 EFF</b> |
| <b>Sample Date:</b>     | <b>3/20/2024</b>    |

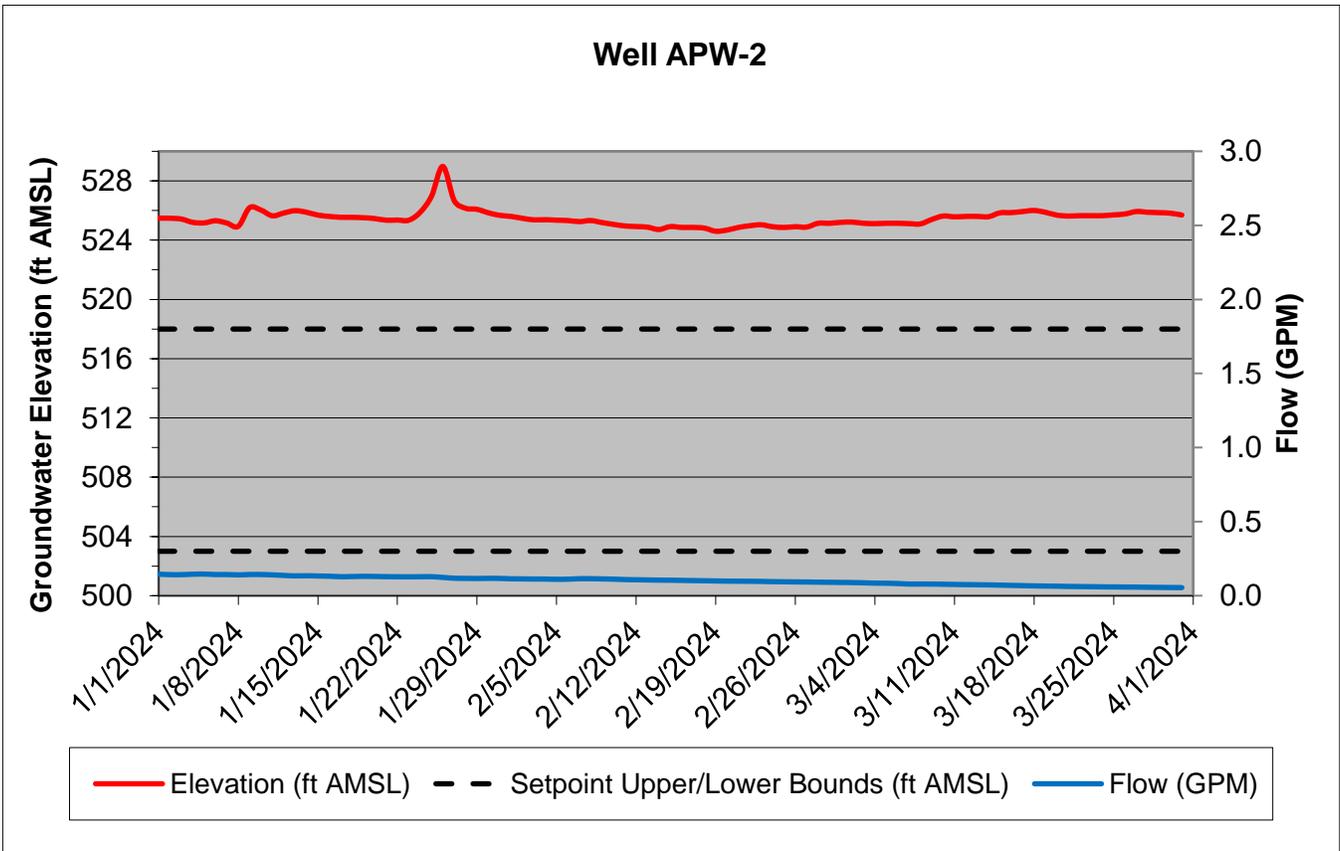
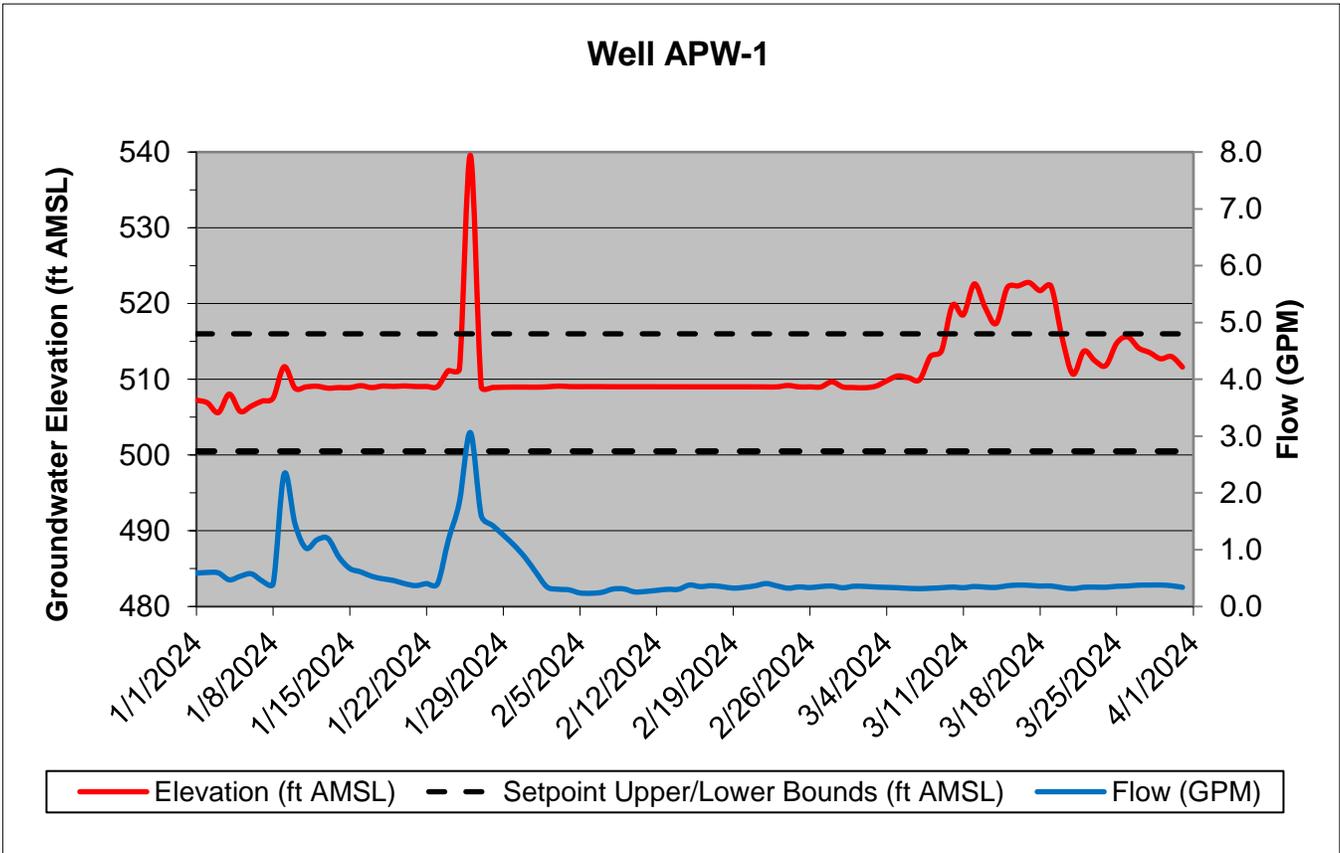
| <b>Parameters</b>                 | <b>Units</b> |       |
|-----------------------------------|--------------|-------|
| <b>Volatile Organic Compounds</b> |              |       |
| Vinyl chloride                    | µg/L         | 16.1  |
| <b>General Chemistry</b>          |              |       |
| Phosphorus                        | mg/L         | 0.256 |

## Notes:

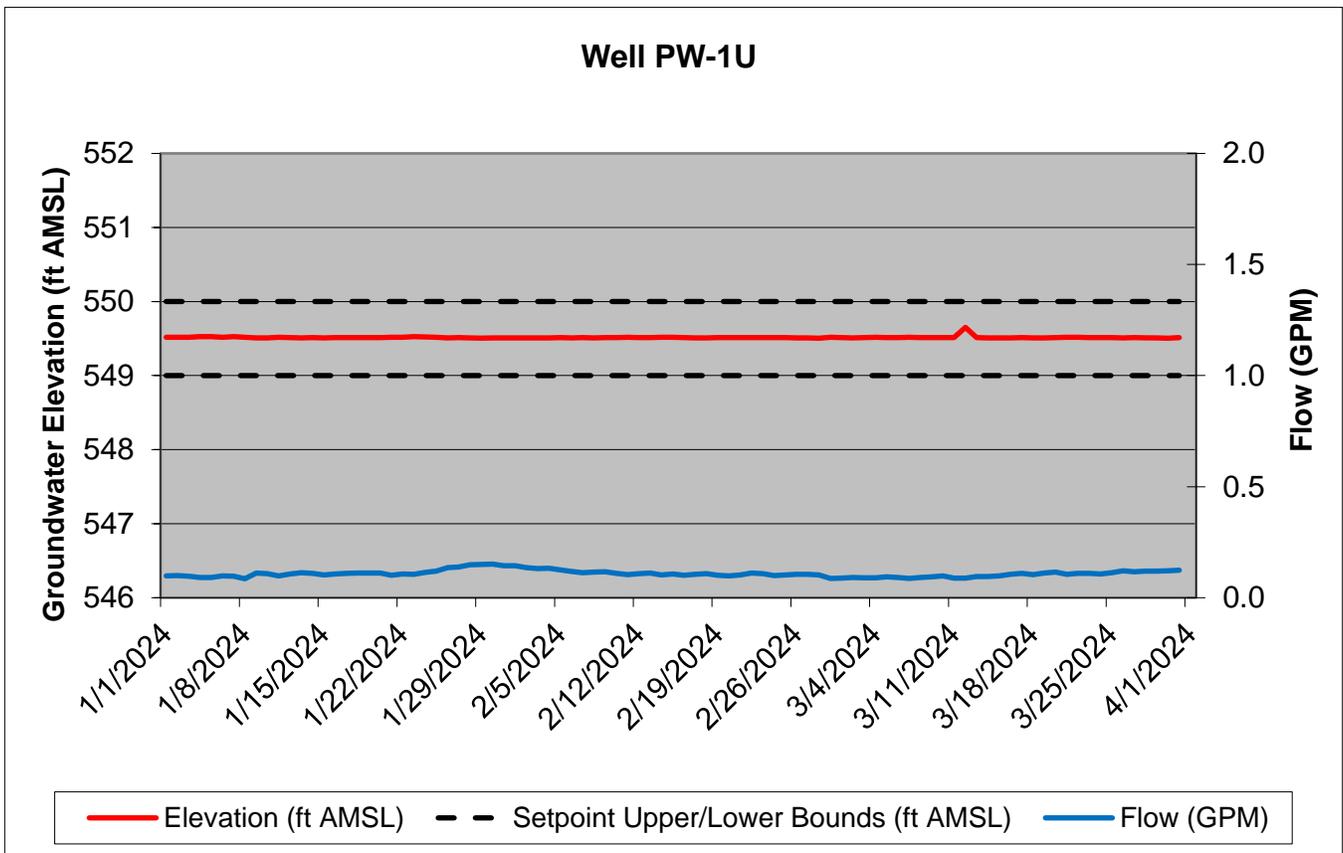
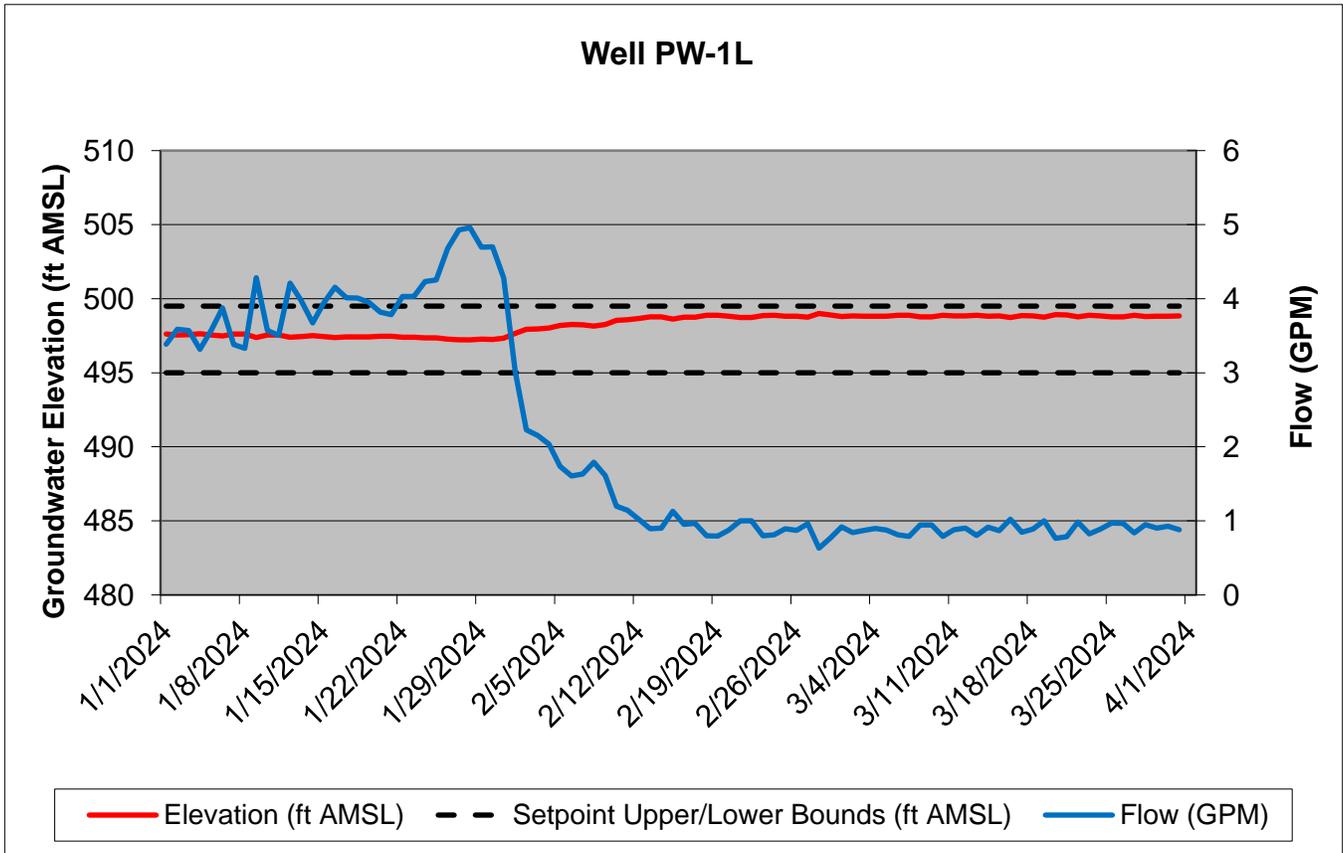
mg/L - Milligrams per liter

µg/L - Micrograms per liter

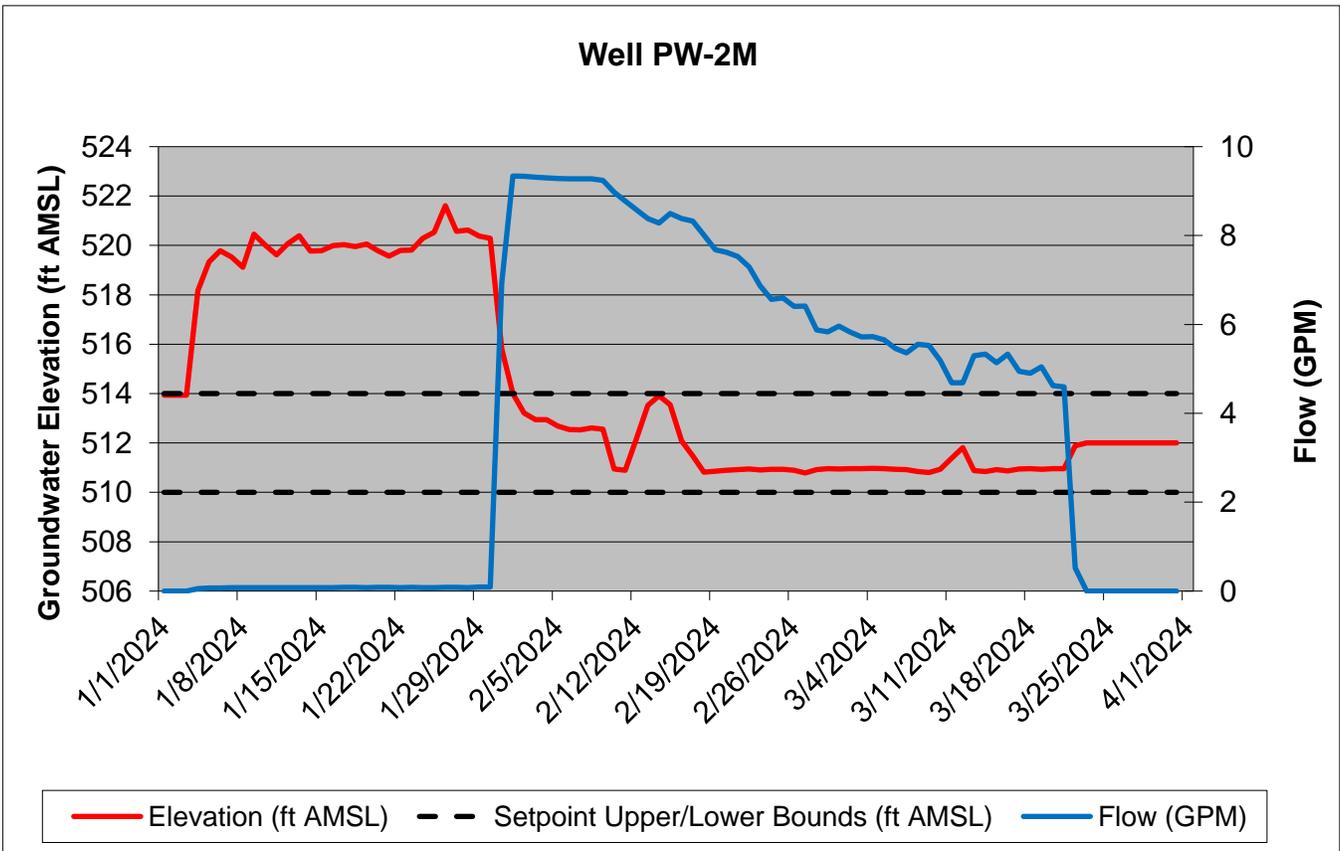
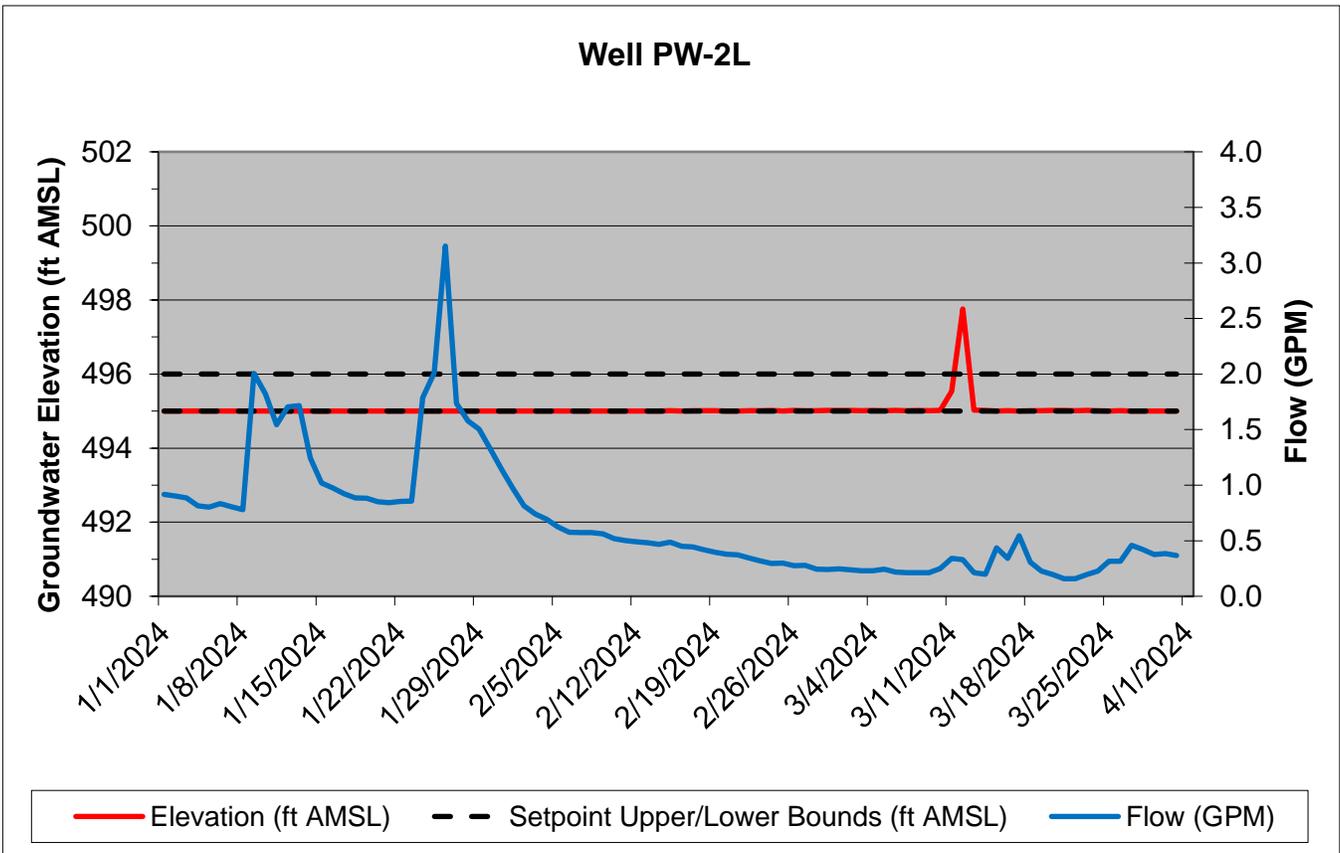
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



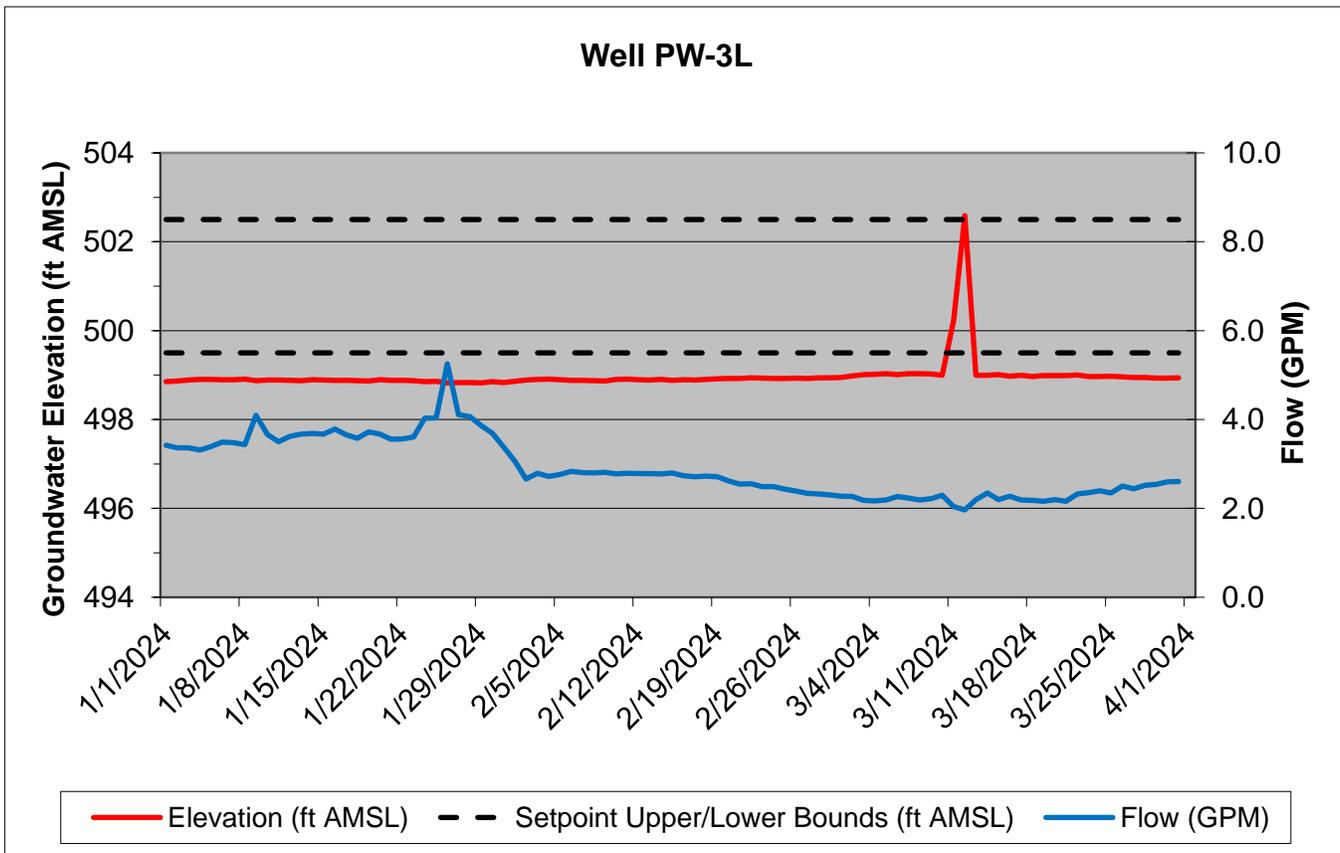
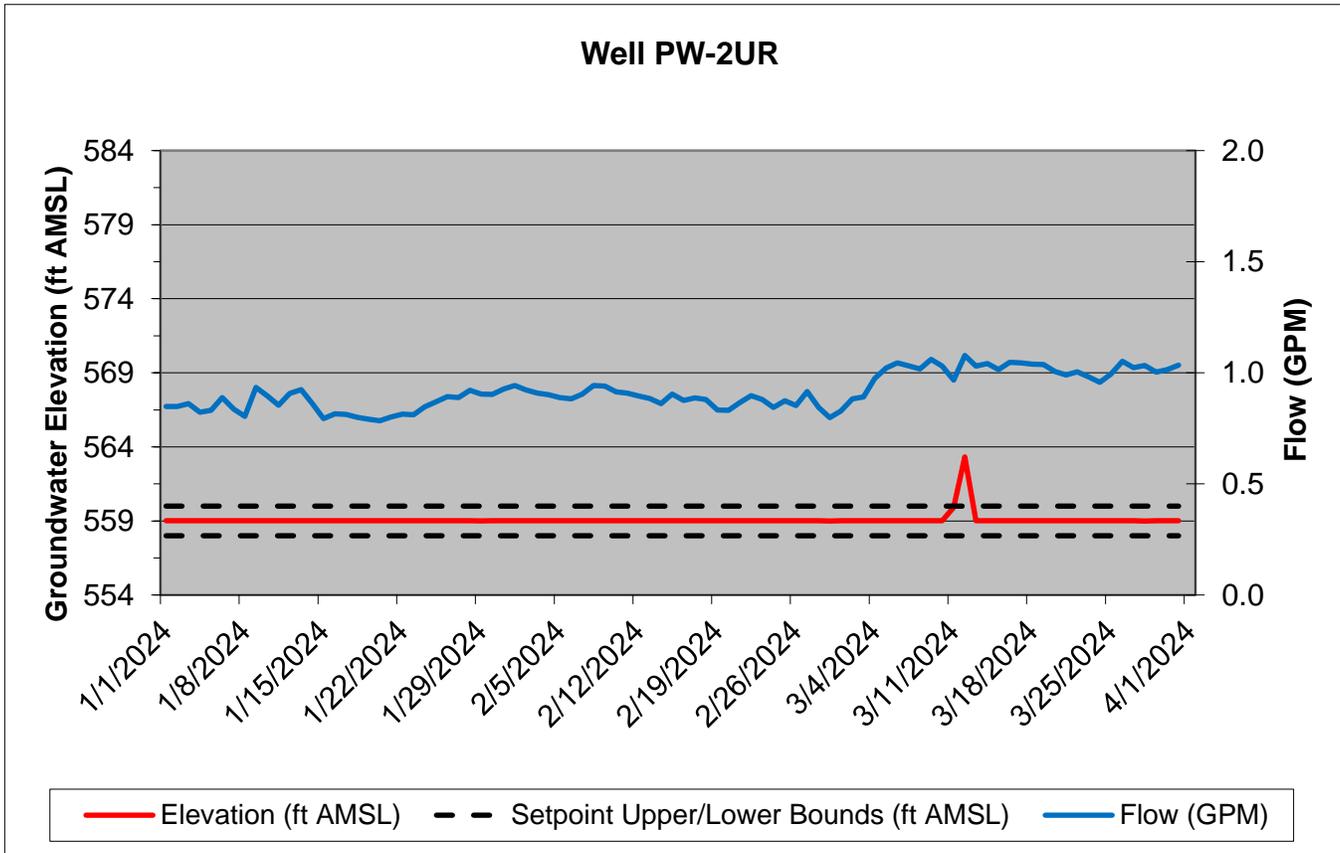
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



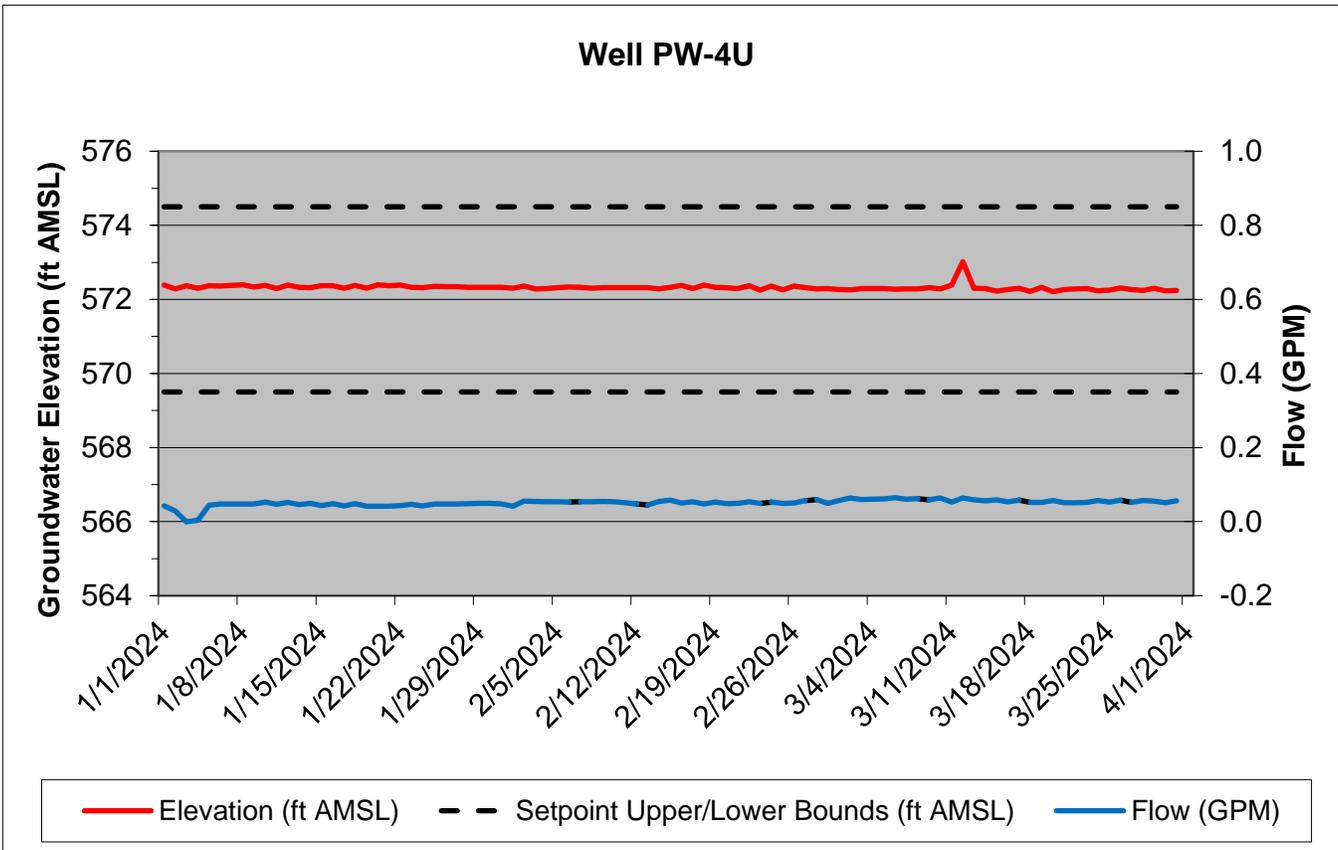
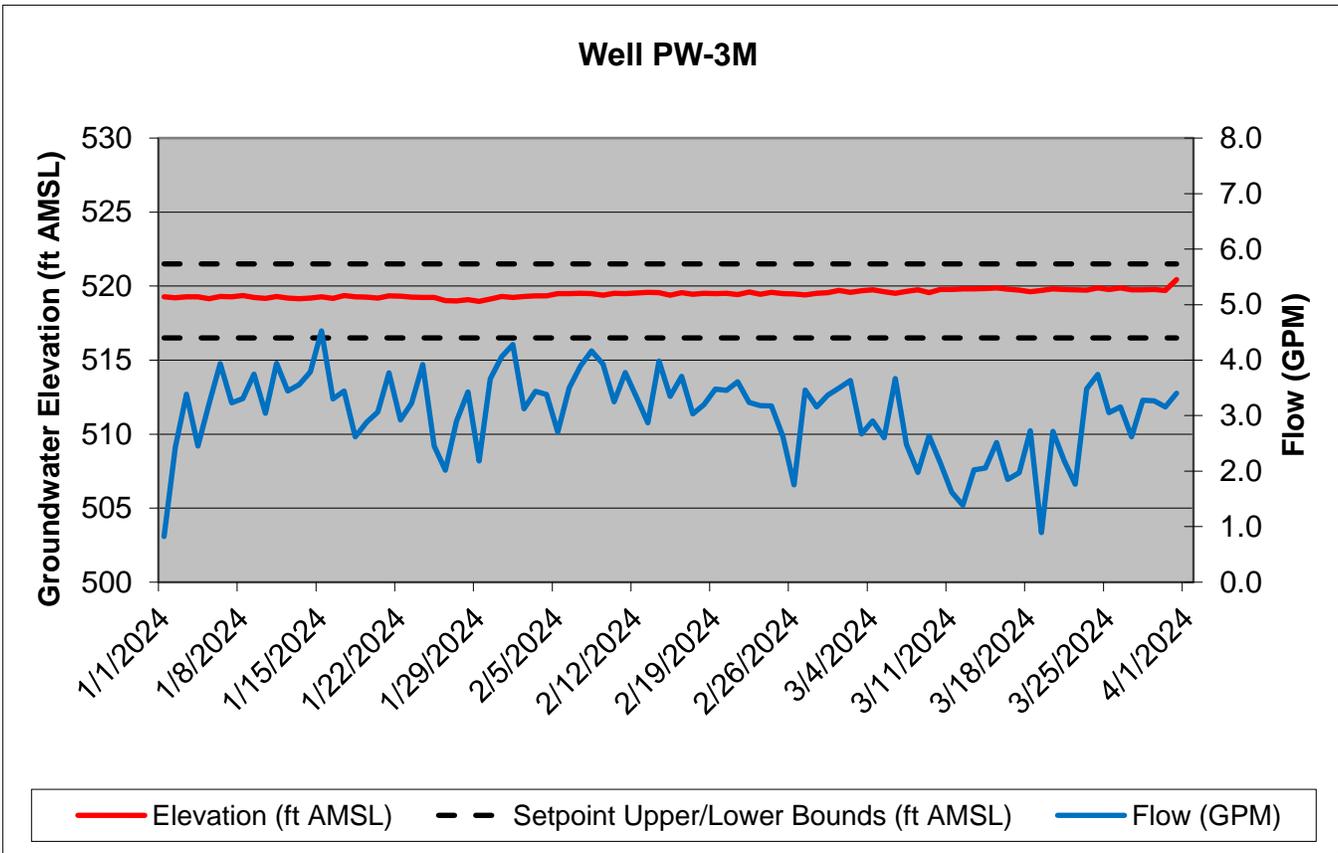
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



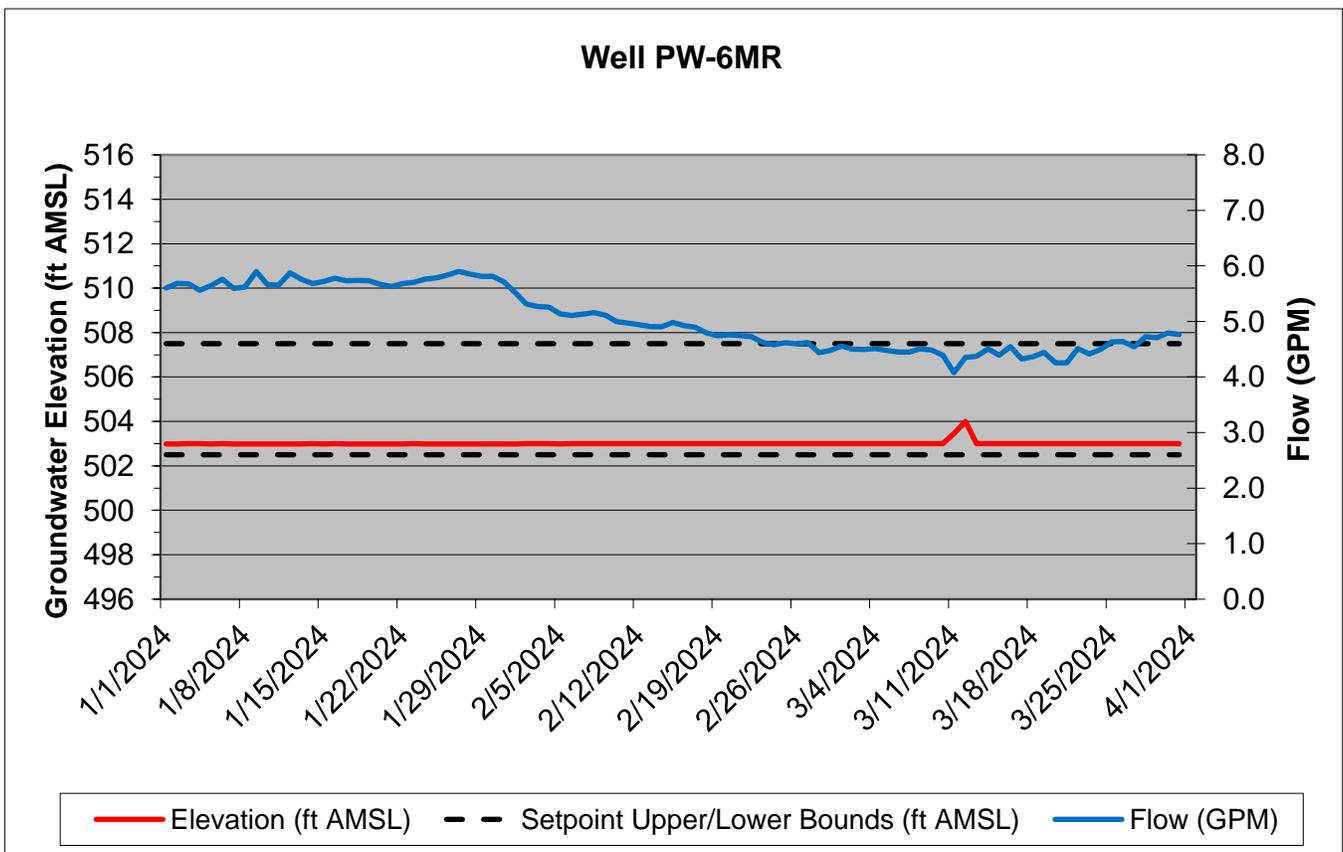
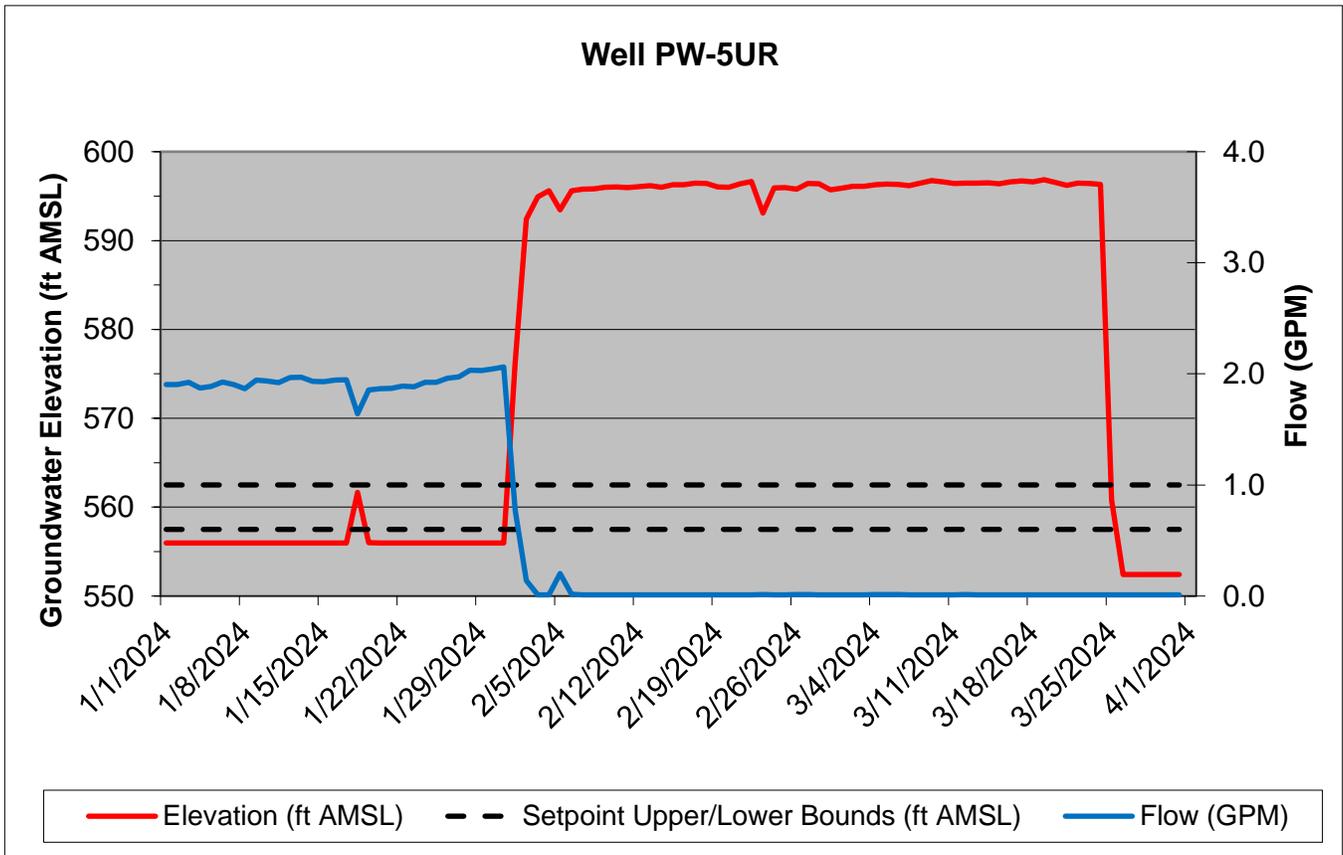
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



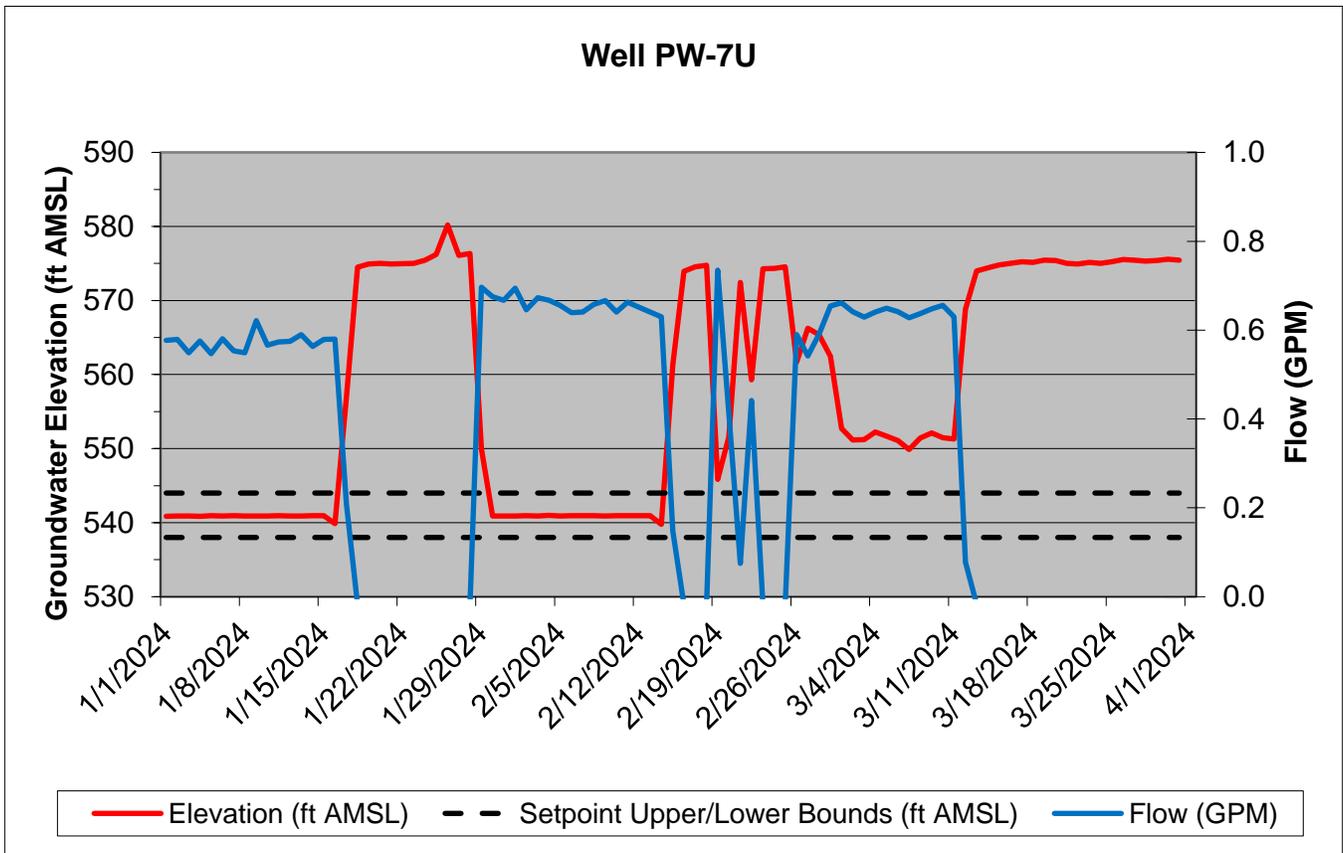
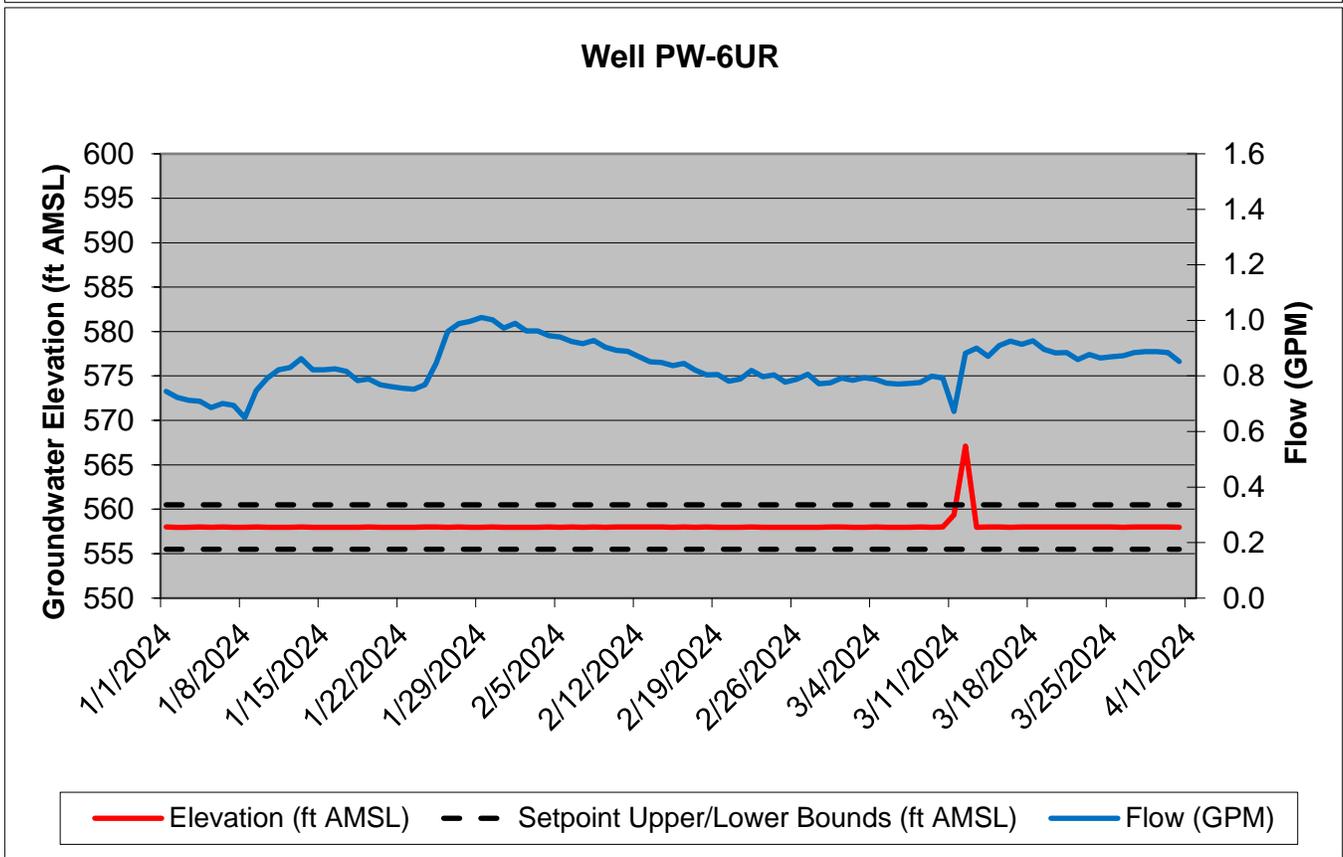
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



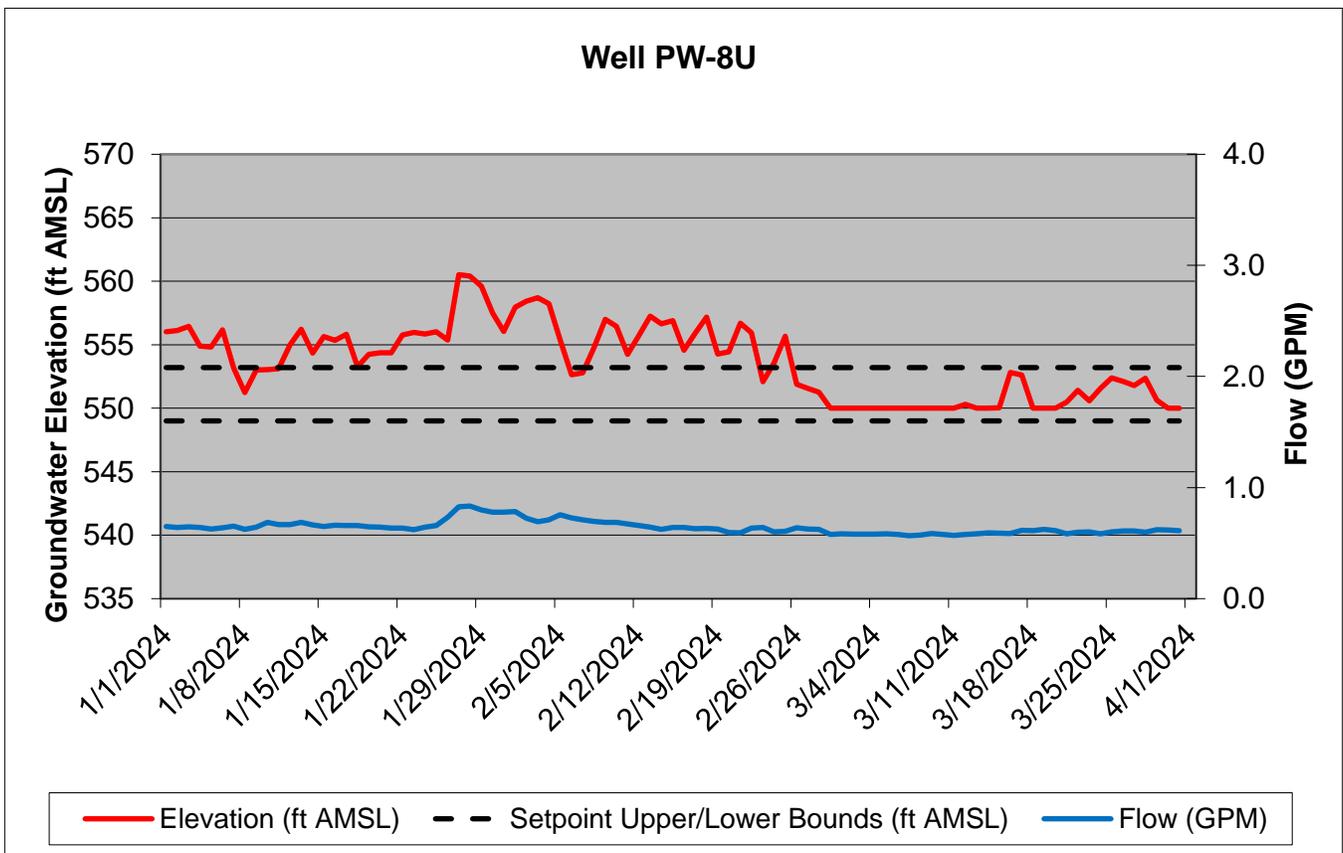
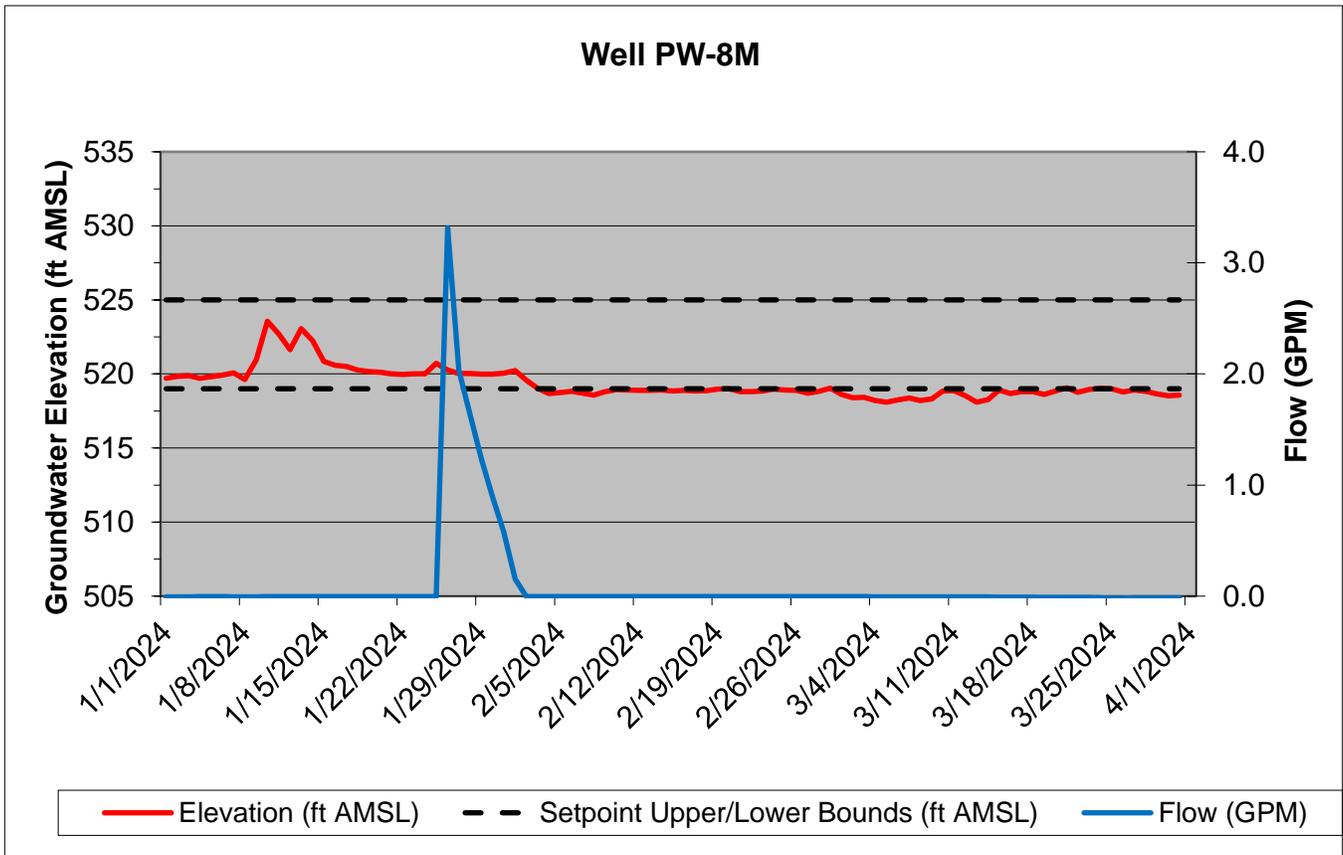
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



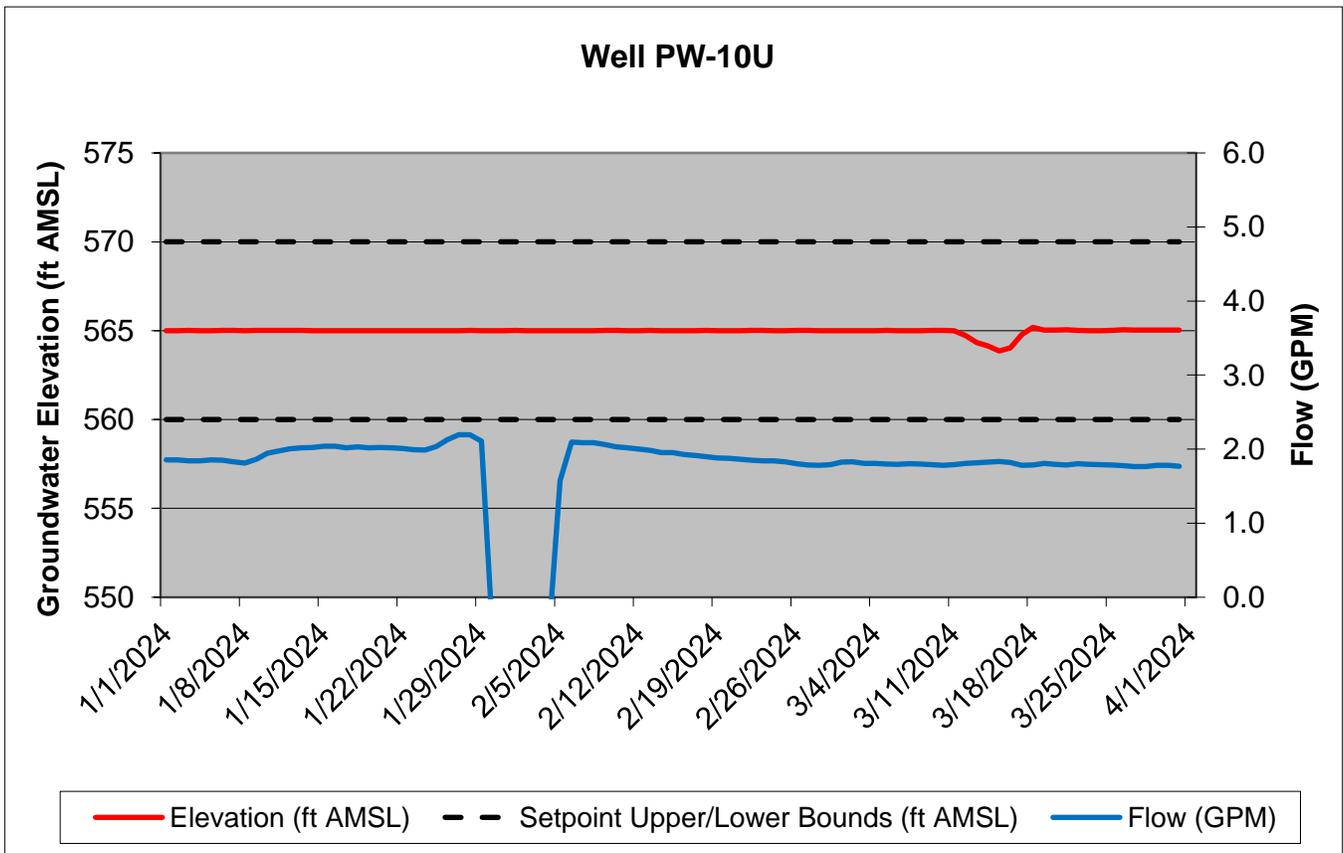
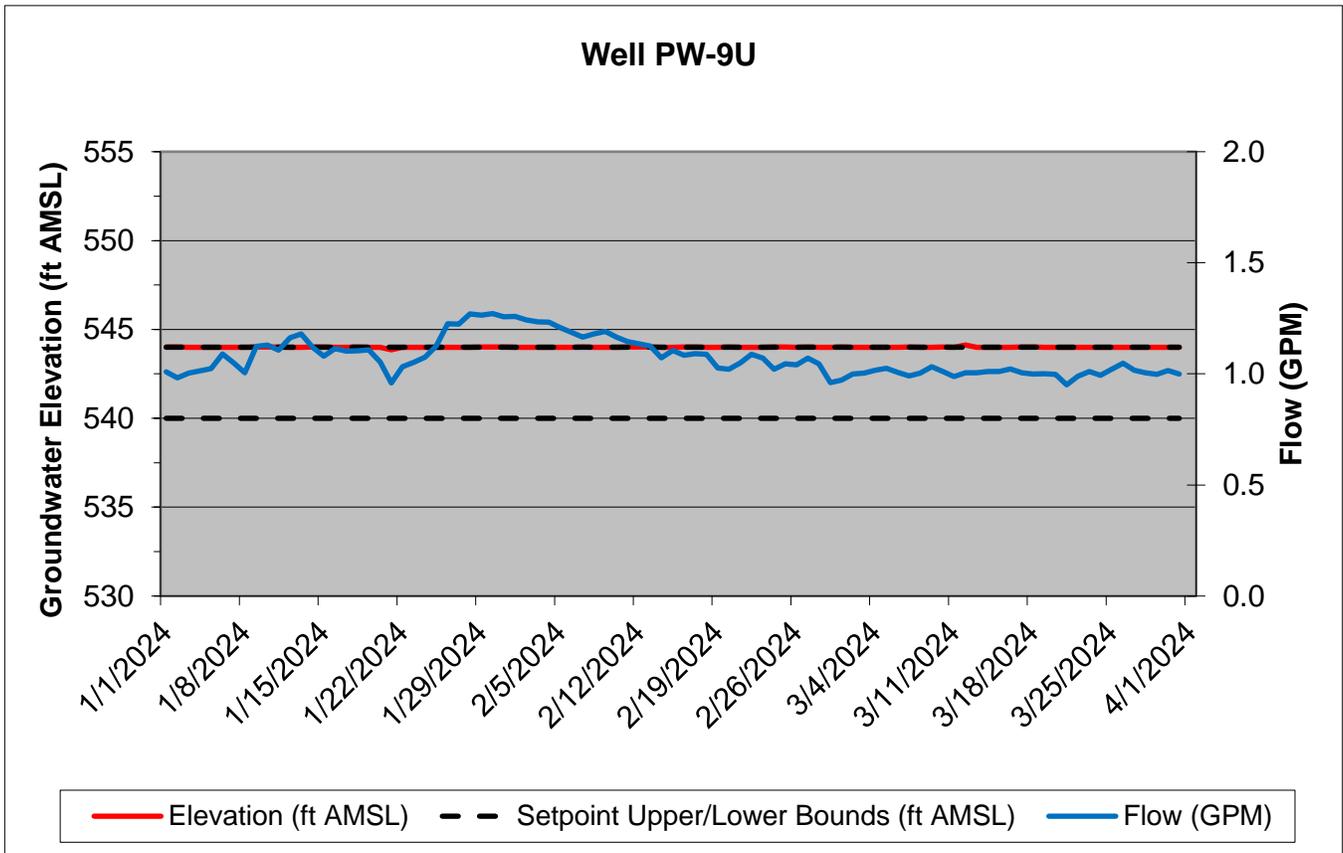
FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



FIRST QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK





# Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

---

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

---

---

7601 Old Channel Trail  
Montague, MI 49437

---

July 31, 2024

Reference No. 11230216

Ms. Maeve Wurtz  
USEPA Region II  
290 Broadway, 20th Floor  
New York, NY 10007-1866

Mr. Andrew Zwack  
NYSDEC  
700 Delaware Avenue  
Buffalo, NY 14209

Dear Ms. Wurtz and Mr. Zwack:

**Re: Quarterly Operations Report - Second Quarter 2024  
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 April 1, 2024 through June 30, 2024. A total of 6.3 million gallons of APL were collected, treated, and discharged in compliance with the Site's City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial User (SIU) Wastewater Discharge Permit #49. Two drums (approximately 1,400 pounds) of non-aqueous phase liquid (NAPL) and four drums (approximately 600 pounds) of personal protective equipment (PPE) and debris 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: Groundwater 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 groundwater elevations for the flow zone 9 piezometer PMW-1M-09 for the second quarter 2024 are presented on Figure 10. These groundwater elevations were less than 526 feet above mean sea level (AMSL) through the entire quarter, indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated throughout the entire quarter.

The pumping wells were operational and functioning as designed during the second quarter 2024, with the exception of the downtime periods discussed below. 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. It should be noted that the no flow or water elevation data were recorded between May 23<sup>rd</sup> and May 28<sup>th</sup> due to a data logging issue.

- 2 -

The water level in PW-7U exceeded setpoint range from April 1 through the end of the quarter due to a variable frequency drive (VFD) fault. Troubleshooting of the VFD indicated that was malfunctioning and could not be repaired. A new VFD was ordered and will be installed in the third quarter 2024.

The water level in PW-8U exceeded setpoint range from April 12 through the end of the quarter as the pump is awaiting replacement.

The water level in APW-1 exceeded setpoint range from May 28 through the end of the quarter as the pump is awaiting replacement.

The following minor operational and setpoint issues were investigated and resolved during the second quarter of 2024:

- The water level in APW-2 exceeded setpoint range from April 1 through June 4 while awaiting a pump replacement. The pump was replaced on June 5 and the water level returned to within setpoint range the same day.
- The water level in PW-2M exceeded setpoint range from April 4 through May 20 and from May 29 through June 11 due programmable logic controller (PLC) outages. The outages were repaired, and the water level returned to within setpoint range on May 21 and June 12, respectively.
- The water level in PW-2UR exceeded setpoint range from April 23 through May 23 while awaiting repair for a pump fault. The repair was completed, and the water level returned to within setpoint range on May 24.
- The water levels in the following wells exceeded setpoint range during the indicated periods due to heavy rain:
  - APW-1: April 2 through April 19. Returned to within setpoint range on April 20.
  - PW-1L: April 3. Returned to within setpoint range on April 4.
  - PW-1U, PW-2L, PW-2UR, PW-4U, PW-8U, PW-9U, and PW-10U: April 3 and 4. Returned to within setpoint range on April 5.
  - PW-3L: April 3 and April 5 through April 9. Returned to within setpoint range on April 4 and April 10, respectively.
  - PW-3M: April 3 through April 8. Returned to within setpoint range on April 9.
  - PW-5UR: April 3 through April 7. Returned to within setpoint range on April 8.
  - PW-6MR: April 3 through April 9. Returned to within setpoint range on April 10.
  - PW-6UR: April 3 through April 5. Returned to within setpoint range on April 6.
  - PW-8U: April 8 and April 9. Returned to within setpoint range on April 10.

If you have any questions, please feel free to contact me at (231) 670-6809 or by email at [joseph\\_branch@oxy.com](mailto:joseph_branch@oxy.com).

July 31, 2024

Reference No. 11230216

- 3 -

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.

A handwritten signature in cursive script that reads "JBranch".

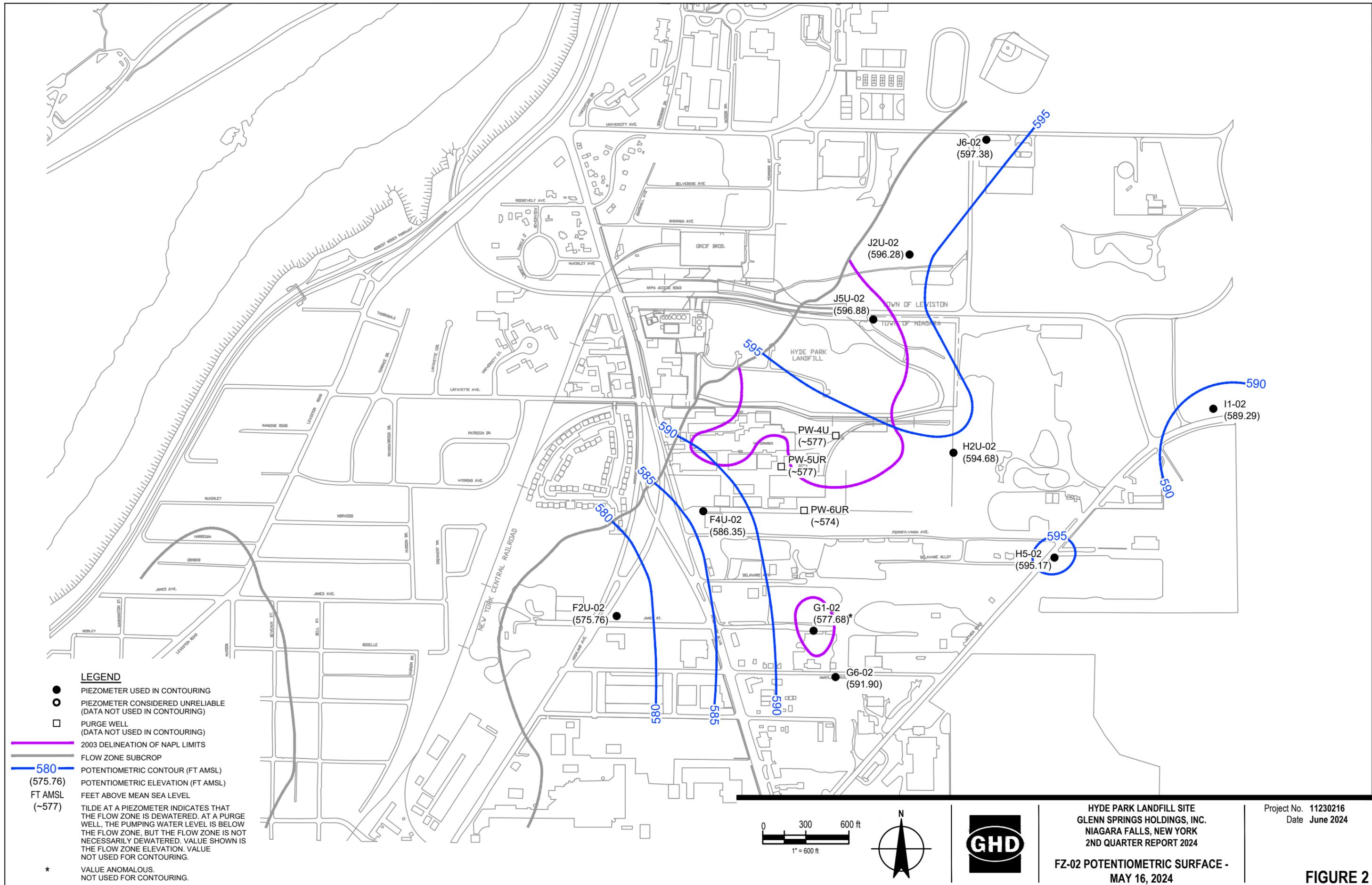
Joe Branch  
Project Manager  
231-670-6809 Cell

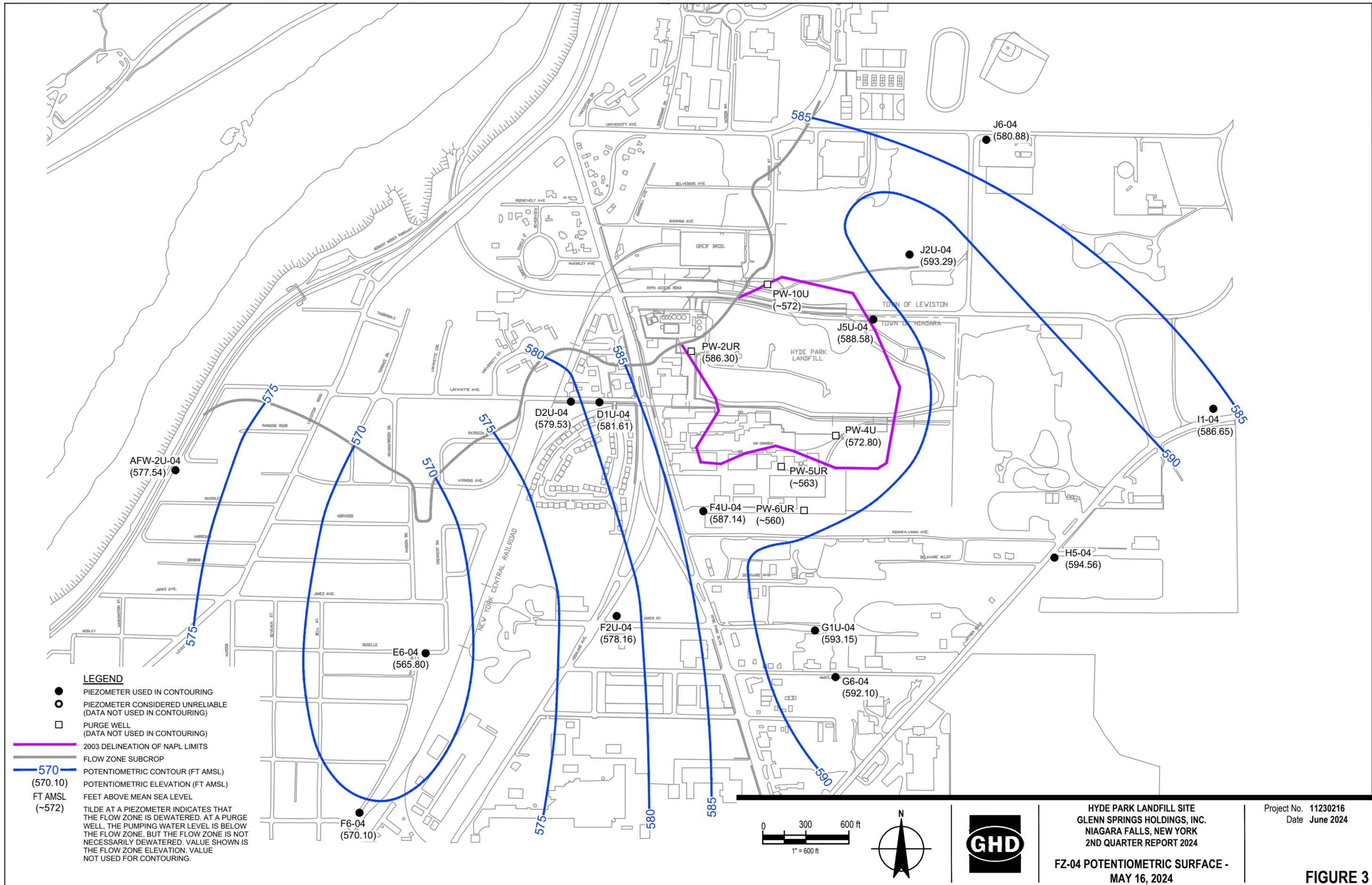
JB/12  
Encl.

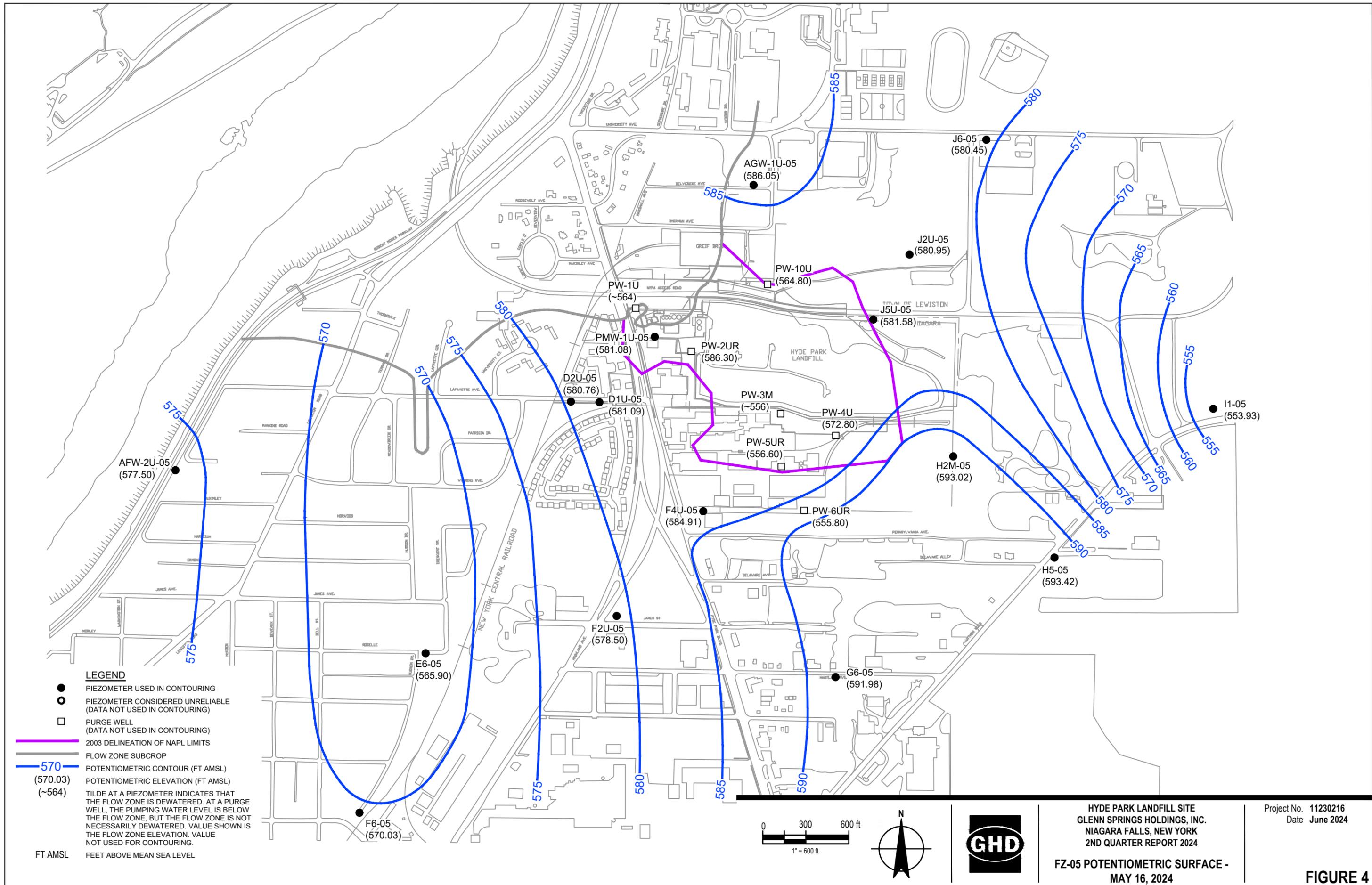
cc: B. McPherson, NYSDEC  
J. Robinson, NYSDOH

J. Pentilchuk, GHD  
M. Popek, GHD

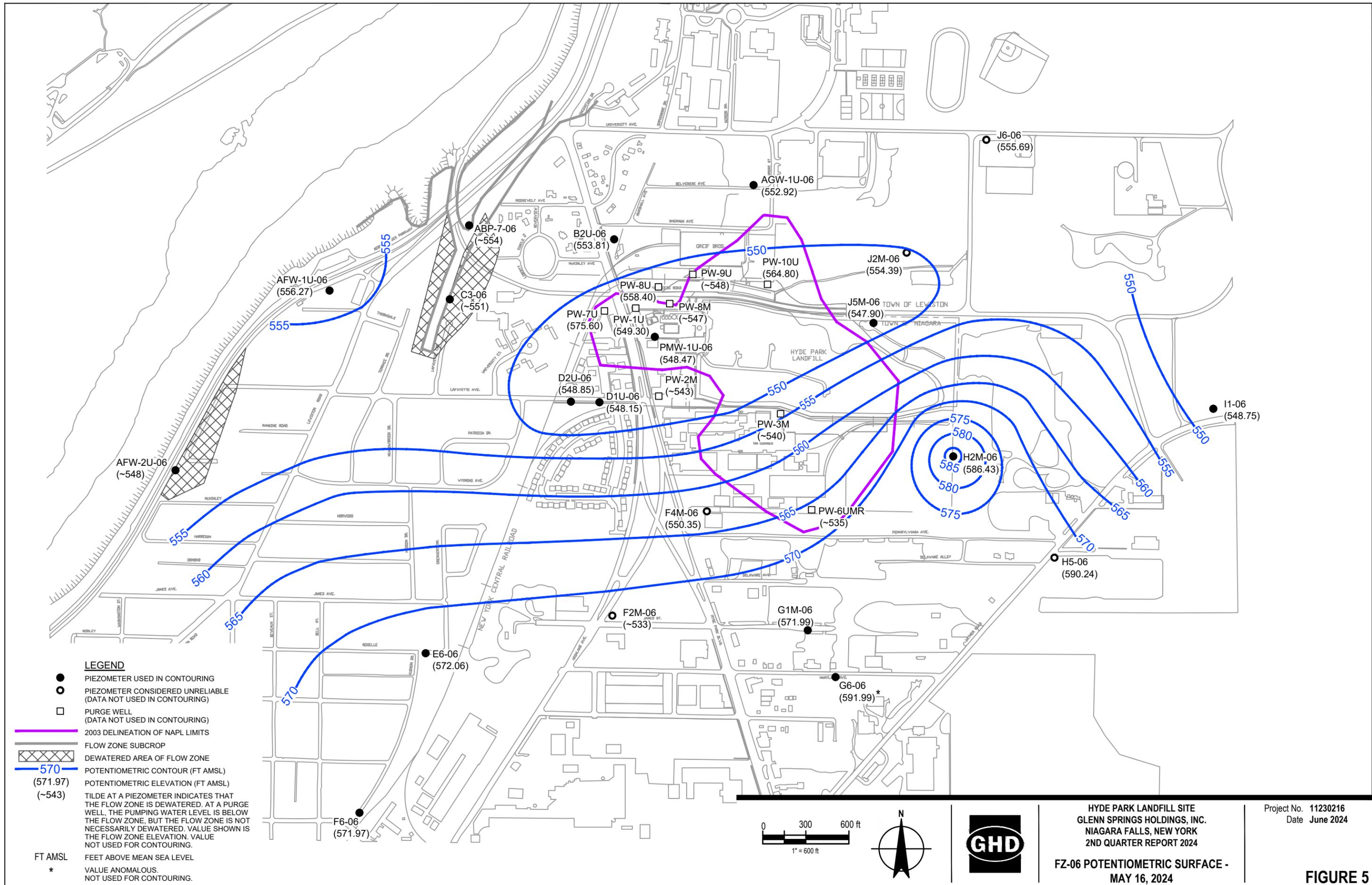


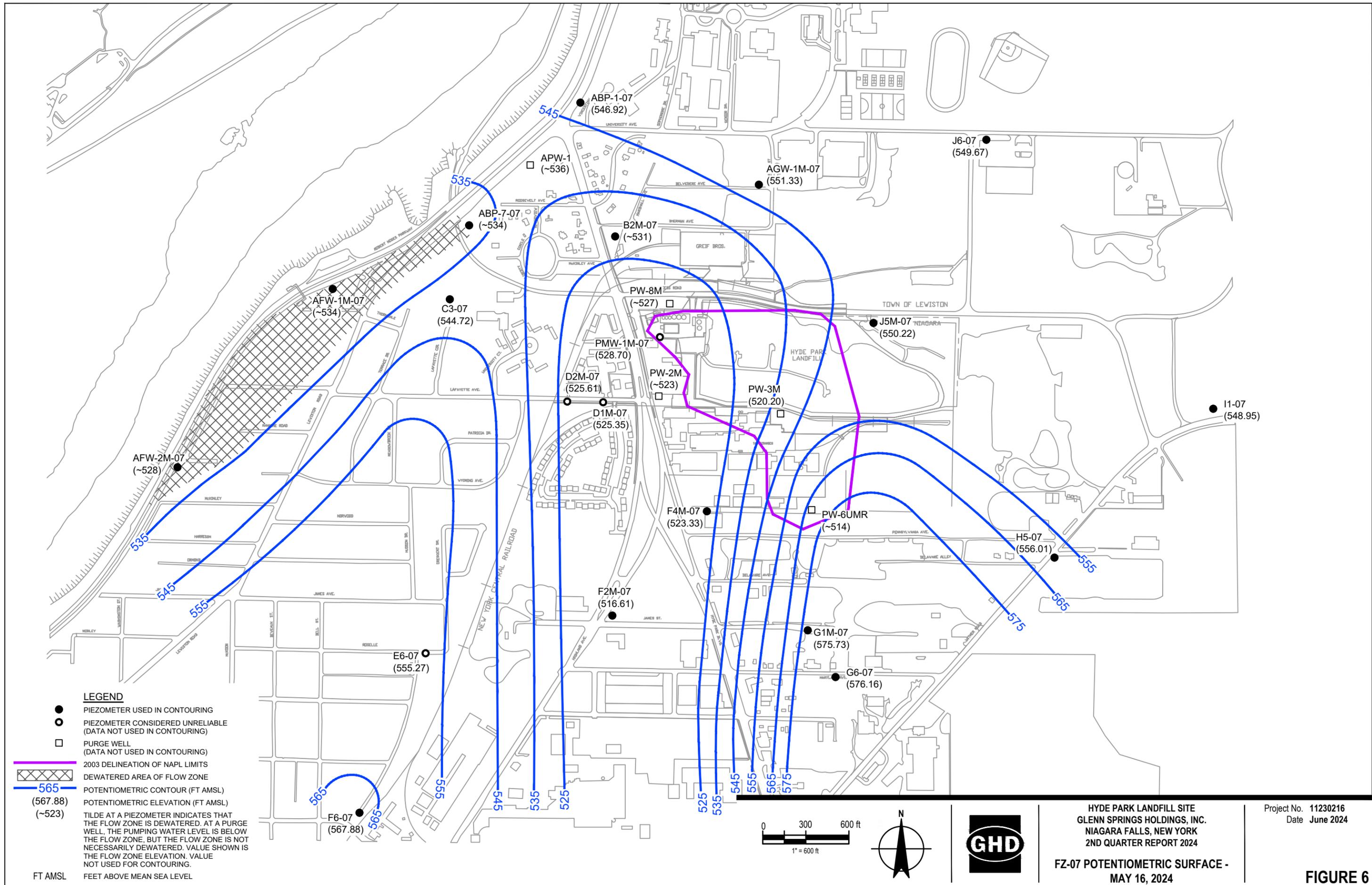


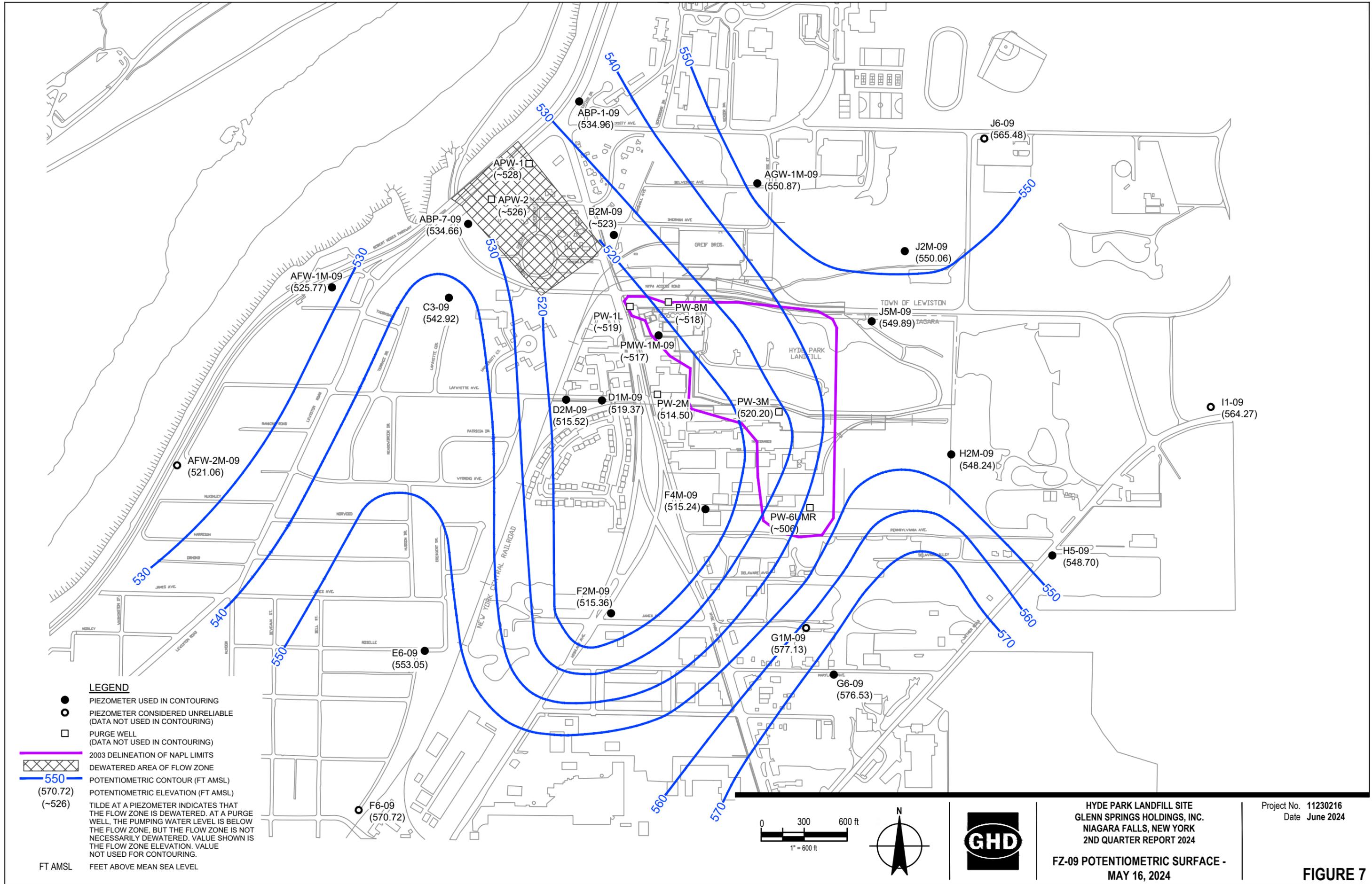




**FIGURE 4**

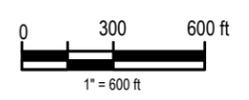






**LEGEND**

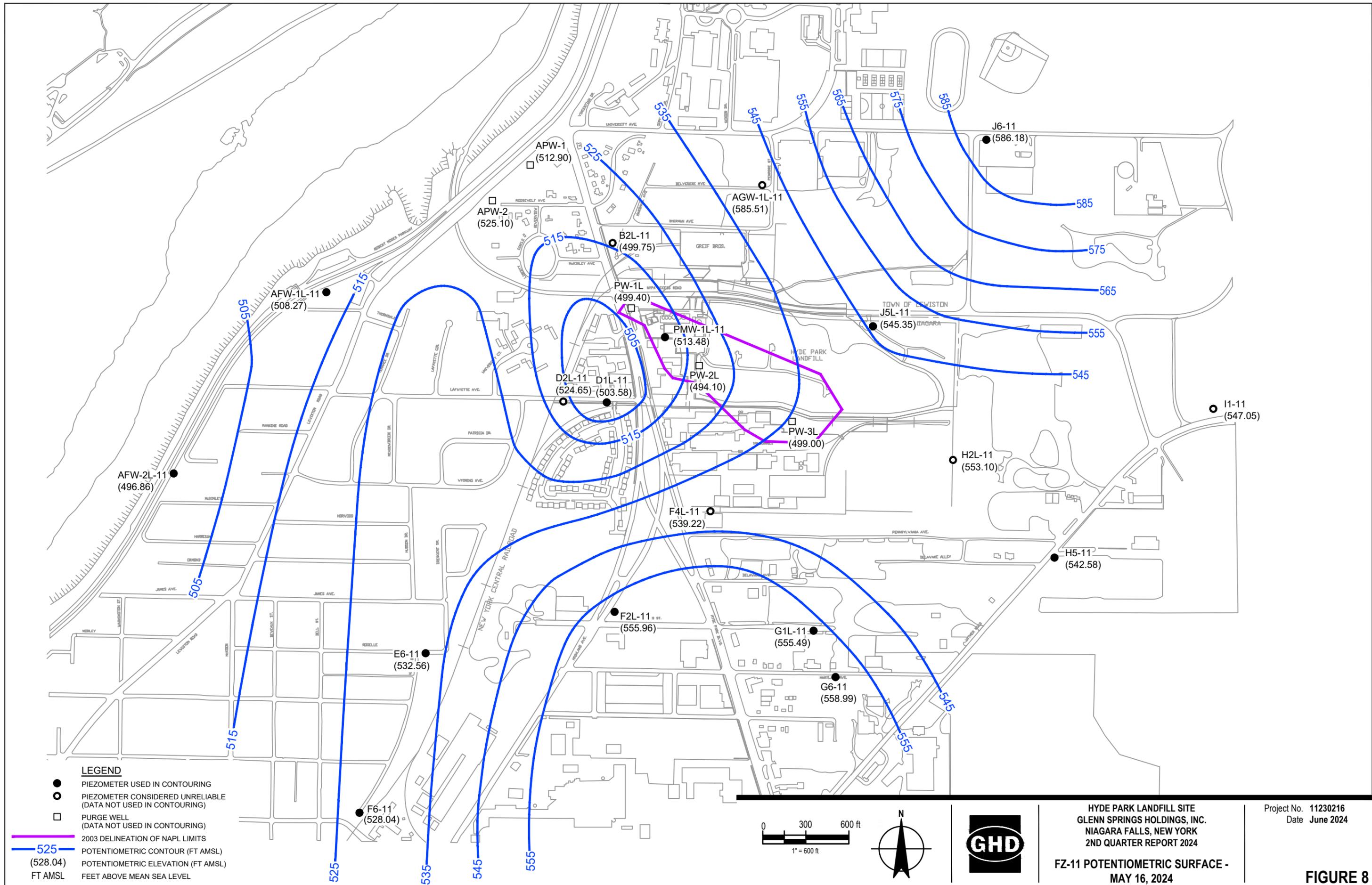
- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- ▨ 2003 DELINEATION OF NAPL LIMITS
- 550 — DEWATERED AREA OF FLOW ZONE
- 570.72 — POTENTIOMETRIC CONTOUR (FT AMSL)
- (~526) POTENTIOMETRIC ELEVATION (FT AMSL)
- TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.
- FT AMSL FEET ABOVE MEAN SEA LEVEL



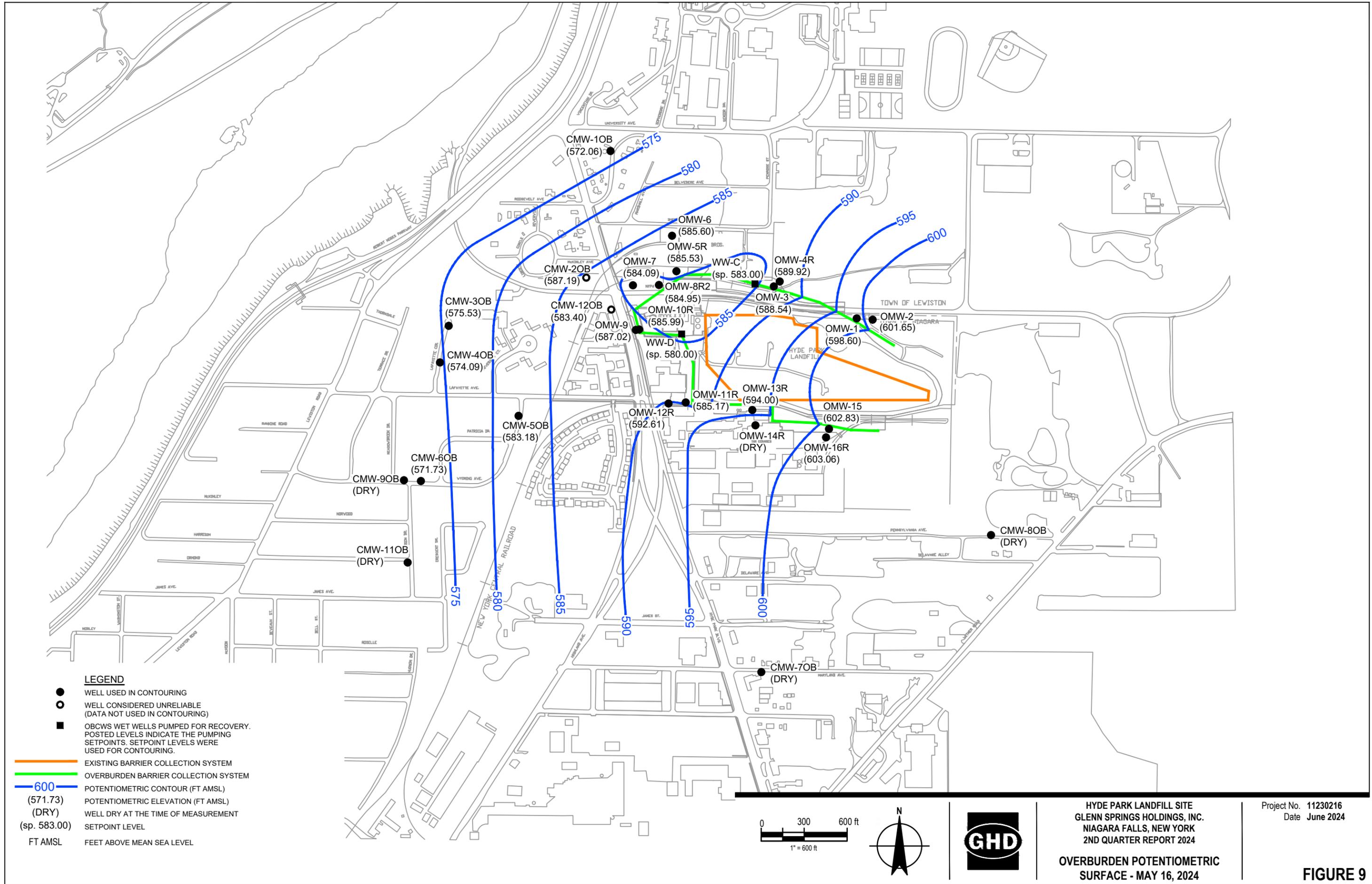
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 2ND QUARTER REPORT 2024  
**FZ-09 POTENTIOMETRIC SURFACE -  
 MAY 16, 2024**

Project No. 11230216  
 Date June 2024

**FIGURE 7**

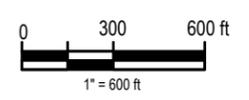


**FIGURE 8**



**LEGEND**

- 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.
- EXISTING BARRIER COLLECTION SYSTEM
- OVERBURDEN BARRIER COLLECTION SYSTEM
- 600 POTENTIOMETRIC CONTOUR (FT AMSL)
- (571.73) POTENTIOMETRIC ELEVATION (FT AMSL)
- (DRY) WELL DRY AT THE TIME OF MEASUREMENT
- (sp. 583.00) SETPOINT LEVEL
- FT AMSL FEET ABOVE MEAN SEA LEVEL



HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 2ND QUARTER REPORT 2024

**OVERBURDEN POTENTIOMETRIC SURFACE - MAY 16, 2024**

Project No. 11230216  
 Date June 2024

**FIGURE 9**

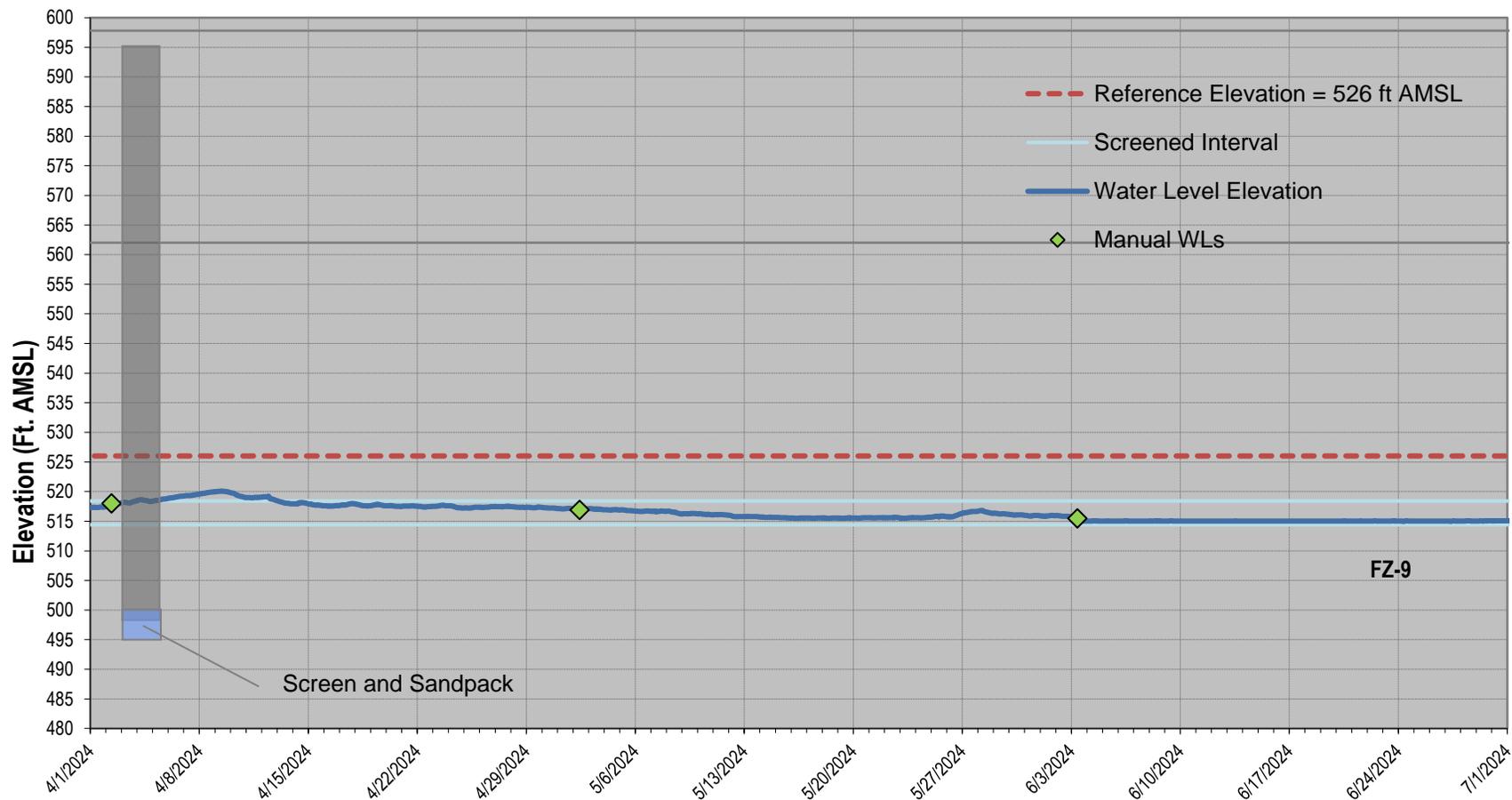


figure 10

PMW-1M-09 2nd Quarter 2024 - Hourly Water Level Elevation  
 2nd Quarter Report  
 Hyde Park Landfill Site  
 Glenn Springs Holdings, Inc.

**Groundwater Elevation Summary  
Second Quarter - 2024  
Hyde Park RRT Program**

| Well              | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|-------------------|----------------------------------|------------------------|------------------------------------|
| <b>Overburden</b> |                                  |                        |                                    |
| CMW-2OB           | 590.79                           | 3.60                   | 587.19                             |
| CMW-3OB           | 582.13                           | 6.60                   | 575.53                             |
| CMW-4OB           | 574.28                           | 0.19                   | 574.09                             |
| CMW-5OB           | 583.43                           | 0.25                   | 583.18                             |
| CMW-6OB           | 571.89                           | 0.16                   | 571.73                             |
| CMW-7OB           | 611.00                           | Dry                    | -                                  |
| CMW-8OB           | 616.11                           | Dry                    | -                                  |
| CMW-9OB           | 571.76                           | Dry                    | -                                  |
| CMW-1OB           | 576.80                           | 4.74                   | 572.06                             |
| CMW-11OB          | 572.85                           | Dry                    | -                                  |
| CMW-12OB          | 594.74                           | 11.34                  | 583.40                             |
| MH20              | 605.87                           | 4.60                   | 601.27                             |
| MH21              | 599.77                           | 6.02                   | 593.75                             |
| MH22              | 593.37                           | Dry                    | -                                  |
| MH23              | 587.05                           | Dry                    | -                                  |
| MH24              | 582.57                           | 5.98                   | 576.59                             |
| MH25              | 583.82                           | 5.62                   | 578.20                             |
| MH26              | 584.48                           | 7.15                   | 577.33                             |
| MH27              | 586.12                           | 10.42                  | 575.70                             |
| MH28              | 585.23                           | 16.16                  | 569.07                             |
| MH29              | 604.58                           | 14.92                  | 589.66                             |
| MH30              | 599.49                           | Dry                    | -                                  |
| MH31              | 590.10                           | Dry                    | -                                  |
| MH32              | 592.01                           | 9.65                   | 582.36                             |
| MH33              | 592.51                           | 8.75                   | 583.76                             |
| MH34              | 598.34                           | 7.18                   | 591.16                             |
| MH35              | 605.69                           | 6.55                   | 599.14                             |
| MH35A             | 605.69                           | 7.19                   | 598.50                             |
| OMW-1             | 605.28                           | 6.68                   | 598.60                             |
| OMW-2             | 605.99                           | 4.34                   | 601.65                             |
| OMW-3             | 598.63                           | 10.09                  | 588.54                             |
| OMW-4R            | 601.17                           | 11.25                  | 589.92                             |
| OMW-5R            | 591.31                           | 5.78                   | 585.53                             |
| OMW-6             | 587.62                           | 2.02                   | 585.60                             |
| OMW-7             | 592.74                           | 8.65                   | 584.09                             |
| OMW-8R2           | 594.67                           | 9.72                   | 584.95                             |
| OMW-9             | 595.27                           | 8.25                   | 587.02                             |
| OMW-10R           | 595.13                           | 9.14                   | 585.99                             |
| OMW-11R           | 597.52                           | 12.35                  | 585.17                             |
| OMW-12R           | 596.71                           | 4.10                   | 592.61                             |
| OMW-13R           | 601.50                           | 7.50                   | 594.00                             |
| OMW-14R           | 599.64                           | Dry                    | -                                  |
| OMW-15            | 607.48                           | 4.65                   | 602.83                             |
| OMW-16R           | 607.62                           | 4.56                   | 603.06                             |
| SC-2              | 625.61                           | 21.97                  | 603.64                             |
| SC-3              | 638.72                           | 39.81                  | 598.91                             |
| SC-4              | 639.35                           | 39.89                  | 599.46                             |
| SC-5              | 634.07                           | 31.66                  | 602.41                             |
| SC-6              | 631.15                           | 21.36                  | 609.79                             |

**Groundwater Elevation Summary  
Second Quarter - 2024  
Hyde Park RRT Program**

| Well                   | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|------------------------|----------------------------------|------------------------|------------------------------------|
| <b>Shallow Bedrock</b> |                                  |                        |                                    |
| CMW-1SH                | 576.11                           | 12.50                  | 563.61                             |
| CMW-2SH                | 590.51                           | 17.02                  | 573.49                             |
| CMW-3SH                | 581.91                           | 27.64                  | 554.27                             |
| CMW-4SH                | 574.16                           | 7.04                   | 567.12                             |
| CMW-5SH                | 583.36                           | 7.47                   | 575.89                             |
| CMW-6SH                | 572.05                           | 10.14                  | 561.91                             |
| CMW-7SH                | 610.58                           | 12.00                  | 598.58                             |
| CMW-8SH                | 615.95                           | 6.60                   | 609.35                             |
| CMW-9SH                | 571.96                           | 12.10                  | 559.86                             |
| CMW-11SH               | 573.21                           | 8.10                   | 565.11                             |
| CMW-12SH               | 597.02                           | 22.54                  | 574.48                             |
| <b>Flow Zone 1</b>     |                                  |                        |                                    |
| G1U-01                 | 617.08                           | Dry                    | -                                  |
| G6-01                  | 609.24                           | 5.80                   | 603.44                             |
| H2U-01                 | 620.92                           | 11.28                  | 609.64                             |
| H5-01                  | 617.61                           | 12.91                  | 604.70                             |
| I1-01                  | 625.58                           | 24.12                  | 601.46                             |
| <b>Flow Zone 2</b>     |                                  |                        |                                    |
| F2U-02                 | 599.89                           | 24.13                  | 575.76                             |
| F4U-02                 | 602.32                           | 15.97                  | 586.35                             |
| G1-02                  | 616.86                           | 39.18                  | 577.68                             |
| G6-02                  | 608.65                           | 16.75                  | 591.90                             |
| H2U-02                 | 620.88                           | 26.20                  | 594.68                             |
| H5-02                  | 617.47                           | 22.30                  | 595.17                             |
| I1-02                  | 625.47                           | 36.18                  | 589.29                             |
| J2U-02                 | 609.66                           | 13.38                  | 596.28                             |
| J5U-02                 | 606.21                           | 9.33                   | 596.88                             |
| J6-02                  | 609.23                           | 11.85                  | 597.38                             |
| <b>Flow Zone 4</b>     |                                  |                        |                                    |
| AFW-2U-04              | 593.48                           | 15.94                  | 577.54                             |
| D1U-04                 | 593.77                           | 12.16                  | 581.61                             |
| D2U-04                 | 590.65                           | 11.12                  | 579.53                             |
| E6-04                  | 578.23                           | 12.43                  | 565.80                             |
| F2U-04                 | 599.76                           | 21.60                  | 578.16                             |
| F4U-04                 | 602.19                           | 15.05                  | 587.14                             |
| F6-04                  | 588.06                           | 17.96                  | 570.10                             |
| G1U-04                 | 616.96                           | 23.81                  | 593.15                             |
| G6-04                  | 609.15                           | 17.05                  | 592.10                             |
| H5-04                  | 617.40                           | 22.84                  | 594.56                             |
| I1-04                  | 625.30                           | 38.65                  | 586.65                             |
| J2U-04                 | 609.42                           | 16.13                  | 593.29                             |
| J5U-04                 | 606.05                           | 17.47                  | 588.58                             |
| J6-04                  | 609.12                           | 28.24                  | 580.88                             |

**Groundwater Elevation Summary  
Second Quarter - 2024  
Hyde Park RRT Program**

| Well               | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|--------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 5</b> |                                  |                        |                                    |
| AFW-2U-05          | 593.33                           | 15.83                  | 577.50                             |
| AGW-1U-05          | 591.80                           | 5.75                   | 586.05                             |
| D1U-05             | 593.51                           | 12.42                  | 581.09                             |
| D2U-05             | 590.56                           | 9.80                   | 580.76                             |
| E6-05              | 578.04                           | 12.14                  | 565.90                             |
| F2U-05             | 599.64                           | 21.14                  | 578.50                             |
| F4U-05             | 602.06                           | 17.15                  | 584.91                             |
| F6-05              | 587.85                           | 17.82                  | 570.03                             |
| G6-05              | 609.13                           | 17.15                  | 591.98                             |
| H2M-05             | 621.59                           | 28.57                  | 593.02                             |
| H5-05              | 617.31                           | 23.89                  | 593.42                             |
| I1-05              | 625.25                           | 71.32                  | 553.93                             |
| J2U-05             | 609.30                           | 28.35                  | 580.95                             |
| J5U-05             | 605.87                           | 24.29                  | 581.58                             |
| J6-05              | 609.02                           | 28.57                  | 580.45                             |
| PMW-1U-05          | 598.00                           | 16.92                  | 581.08                             |
| <b>Flow Zone 6</b> |                                  |                        |                                    |
| ABP-7-06           | 575.78                           | Dry                    | -                                  |
| AFW-1U-06          | 571.83                           | 15.56                  | 556.27                             |
| AFW-2U-06          | 593.22                           | 48.01                  | 545.21                             |
| AGW-1U-06          | 591.66                           | 38.74                  | 552.92                             |
| B2U-06             | 589.29                           | 35.48                  | 553.81                             |
| C3-06              | 585.78                           | Dry                    | -                                  |
| D1U-06             | 593.25                           | 45.10                  | 548.15                             |
| D2U-06             | 590.38                           | 41.53                  | 548.85                             |
| E6-06              | 577.99                           | 5.93                   | 572.06                             |
| F2M-06             | 599.06                           | Dry                    | -                                  |
| F4M-06             | 602.05                           | 51.70                  | 550.35                             |
| F6-06              | 587.84                           | 15.87                  | 571.97                             |
| G1M-06             | 616.75                           | 44.76                  | 571.99                             |
| G6-06              | 609.09                           | 17.10                  | 591.99                             |
| H2M-06             | 621.42                           | 34.99                  | 586.43                             |
| H5-06              | 617.17                           | 26.93                  | 590.24                             |
| I1-06              | 625.15                           | 76.40                  | 548.75                             |
| J2M-06             | 608.94                           | 54.55                  | 554.39                             |
| J5M-06             | 606.22                           | 58.32                  | 547.90                             |
| J6-06              | 608.93                           | 53.24                  | 555.69                             |
| PMW-1U-06          | 597.92                           | 49.45                  | 548.47                             |

**Groundwater Elevation Summary  
Second Quarter - 2024  
Hyde Park RRT Program**

| Well               | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|--------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 7</b> |                                  |                        |                                    |
| ABP-1-07           | 575.20                           | 28.28                  | 546.92                             |
| ABP-7-07           | 575.73                           | 42.33                  | 533.40                             |
| AFW-1M-07          | 571.41                           | Dry                    | -                                  |
| AFW-2M-07          | 593.44                           | 66.74                  | 526.70                             |
| AGW-1M-07          | 592.91                           | 41.58                  | 551.33                             |
| B2M-07             | 589.52                           | 59.13                  | 530.39                             |
| C3-07              | 585.62                           | 40.90                  | 544.72                             |
| D1M-07             | 594.15                           | 68.80                  | 525.35                             |
| D2M-07             | 590.77                           | 65.16                  | 525.61                             |
| E6-07              | 577.91                           | 22.64                  | 555.27                             |
| F2M-07             | 598.91                           | 82.30                  | 516.61                             |
| F4M-07             | 601.91                           | 78.58                  | 523.33                             |
| F6-07              | 587.68                           | 19.80                  | 567.88                             |
| G1M-07             | 616.68                           | 40.95                  | 575.73                             |
| G6-07              | 609.06                           | 32.90                  | 576.16                             |
| H5-07              | 617.05                           | 61.04                  | 556.01                             |
| I1-07              | 625.14                           | 76.19                  | 548.95                             |
| J5M-07             | 606.07                           | 55.85                  | 550.22                             |
| J6-07              | 608.85                           | 59.18                  | 549.67                             |
| PMW-1M-07          | 598.50                           | 69.80                  | 528.70                             |
| <b>Flow Zone 9</b> |                                  |                        |                                    |
| ABP-1-09           | 575.19                           | 40.23                  | 534.96                             |
| ABP-7-09           | 575.67                           | 41.01                  | 534.66                             |
| AFW-1M-09          | 571.12                           | 45.35                  | 525.77                             |
| AFW-2M-09          | 593.32                           | 72.26                  | 521.06                             |
| AGW-1M-09          | 592.75                           | 41.88                  | 550.87                             |
| B2M-09             | 589.34                           | Dry                    | -                                  |
| C3-09              | 585.00                           | 42.08                  | 542.92                             |
| D1M-09             | 594.02                           | 74.65                  | 519.37                             |
| D2M-09             | 590.66                           | 75.14                  | 515.52                             |
| E6-09              | 577.82                           | 24.77                  | 553.05                             |
| F2M-09             | 598.71                           | 83.35                  | 515.36                             |
| F4M-09             | 601.79                           | 86.55                  | 515.24                             |
| F6-09              | 587.53                           | 16.81                  | 570.72                             |
| G1M-09             | 616.58                           | 39.45                  | 577.13                             |
| G6-09              | 608.98                           | 32.45                  | 576.53                             |
| H2M-09             | 621.32                           | 73.08                  | 548.24                             |
| H5-09              | 616.93                           | 68.23                  | 548.70                             |
| I1-09              | 624.91                           | 60.64                  | 564.27                             |
| J2M-09             | 608.77                           | 58.71                  | 550.06                             |
| J5M-09             | 605.82                           | 55.93                  | 549.89                             |
| J6-09              | 608.76                           | 43.28                  | 565.48                             |
| PMW-1M-09          | 598.34                           | Dry                    | -                                  |

**Groundwater Elevation Summary  
Second Quarter - 2024  
Hyde Park RRT Program**

| Well                | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|---------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 11</b> |                                  |                        |                                    |
| AFW-1L-11           | 572.10                           | 63.83                  | 508.27                             |
| AFW-2L-11           | 593.43                           | 96.57                  | 496.86                             |
| AGW-1L-11           | 592.71                           | 7.20                   | 585.51                             |
| B2L-11              | 589.65                           | 89.90                  | 499.75                             |
| D1L-11              | 593.80                           | 90.22                  | 503.58                             |
| D2L-11              | 590.21                           | 65.56                  | 524.65                             |
| E6-11               | 577.72                           | 45.16                  | 532.56                             |
| F2L-11              | 598.94                           | 42.98                  | 555.96                             |
| F4L-11              | 602.22                           | 63.00                  | 539.22                             |
| F6-11               | 587.40                           | 59.36                  | 528.04                             |
| G1L-11              | 616.84                           | 61.35                  | 555.49                             |
| G6-11               | 608.89                           | 49.90                  | 558.99                             |
| H2L-11              | 620.73                           | 67.63                  | 553.10                             |
| H5-11               | 616.81                           | 74.23                  | 542.58                             |
| I1-11               | 624.75                           | 77.70                  | 547.05                             |
| J5L-11              | 607.20                           | 61.85                  | 545.35                             |
| J6-11               | 608.68                           | 22.50                  | 586.18                             |
| PMW-1L-11           | 598.84                           | 85.36                  | 513.48                             |
| <b>Purge Wells</b>  |                                  |                        |                                    |
| APW-1               | 564.98                           | 52.08                  | 512.90                             |
| APW-2               | 569.89                           | 44.79                  | 525.10                             |
| PW-1L               | 593.16                           | 93.76                  | 499.40                             |
| PW-1U               | 593.50                           | 44.20                  | 549.30                             |
| PW-2L               | 597.29                           | 103.19                 | 494.10                             |
| PW-2M               | 596.61                           | 82.11                  | 514.50                             |
| PW-2UR              | 594.75                           | 8.45                   | 586.30                             |
| PW-3L               | 599.05                           | 100.05                 | 499.00                             |
| PW-3M               | 597.79                           | 77.59                  | 520.20                             |
| PW-4M               | 606.93                           | 82.63                  | 524.30                             |
| PW-4U               | 604.85                           | 32.05                  | 572.80                             |
| PW-5UR              | 601.31                           | 44.71                  | 556.60                             |
| PW-6UMR             | 609.31                           | 105.21                 | 504.10                             |
| PW-6UR              | 608.47                           | 52.67                  | 555.80                             |
| PW-7U               | 592.47                           | 16.87                  | 575.60                             |
| PW-8M               | 592.67                           | 74.67                  | 518.00                             |
| PW-8U               | 589.27                           | 30.87                  | 558.40                             |
| PW-9U               | 587.47                           | 42.87                  | 544.60                             |
| 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

**Leachate Treatment System Daily Effluent Monitoring Data  
Second Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 04/01/24 |            |               |
| 04/02/24 | 7.7        | 159,000       |
| 04/03/24 | 7.7        | 155,000       |
| 04/04/24 | 7.7        | 37,000        |
| 04/05/24 |            |               |
| 04/06/24 |            |               |
| 04/07/24 |            |               |
| 04/08/24 | 7.7        | 148,000       |
| 04/09/24 | 7.8        | 100,000       |
| 04/10/24 | 7.7        | 222,000       |
| 04/11/24 | 7.7        | 211,000       |
| 04/12/24 | 7.6        | 211,000       |
| 04/13/24 |            |               |
| 04/14/24 |            |               |
| 04/15/24 | 7.5        | 169,000       |
| 04/16/24 | 7.5        | 183,000       |
| 04/17/24 | 7.6        | 179,000       |
| 04/18/24 | 7.6        | 170,000       |
| 04/19/24 | 7.6        | 23,000        |
| 04/20/24 |            |               |
| 04/21/24 |            |               |
| 04/22/24 | 7.6        | 160,000       |
| 04/23/24 | 7.7        | 198,000       |
| 04/24/24 | 7.7        | 185,000       |
| 04/25/24 | 7.7        | 32,000        |
| 04/26/24 | 7.7        | 174,000       |
| 04/27/24 |            |               |
| 04/28/24 |            |               |
| 04/29/24 |            |               |
| 04/30/24 | 7.6        | 170,000       |
| 05/01/24 | 7.6        | 178,000       |
| 05/02/24 | 7.2        | 157,000       |
| 05/03/24 |            |               |
| 05/04/24 |            |               |
| 05/05/24 |            |               |
| 05/06/24 | 7.4        | 152,000       |
| 05/07/24 | 7.6        | 160,000       |

**Leachate Treatment System Daily Effluent Monitoring Data  
Second Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 05/08/24 |            |               |
| 05/09/24 |            |               |
| 05/10/24 |            |               |
| 05/11/24 |            |               |
| 05/12/24 |            |               |
| 05/13/24 | 7.5        | 171,000       |
| 05/14/24 | 7.6        | 169,000       |
| 05/15/24 | 7.6        | 33,000        |
| 05/16/24 |            |               |
| 05/17/24 |            |               |
| 05/18/24 |            |               |
| 05/19/24 |            |               |
| 05/20/24 |            |               |
| 05/21/24 | 7.8        | 158,000       |
| 05/22/24 | 7.6        | 160,000       |
| 05/23/24 | 7.7        | 25,000        |
| 05/24/24 | 7.8        | 37,000        |
| 05/25/24 |            |               |
| 05/26/24 |            |               |
| 05/27/24 |            |               |
| 05/28/24 | 7.6        | 69,000        |
| 05/29/24 | 7.7        | 194,000       |
| 05/30/24 |            |               |
| 05/31/24 |            |               |
| 06/01/24 |            |               |
| 06/02/24 |            |               |
| 06/03/24 |            |               |
| 06/04/24 | 8.0        | 194,000       |
| 06/05/24 | 7.6        | 48,000        |
| 06/06/24 | 7.8        | 38,000        |
| 06/07/24 |            |               |
| 06/08/24 |            |               |
| 06/09/24 |            |               |
| 06/10/24 | 7.4        | 203,000       |
| 06/11/24 | 7.6        | 201,000       |
| 06/12/24 | 7.7        | 41,000        |
| 06/13/24 | 7.7        | 30,000        |

**Leachate Treatment System Daily Effluent Monitoring Data  
Second Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent     |                  |
|----------|--------------|------------------|
|          | pH<br>(su)   | Flow<br>(gal)    |
| 06/14/24 |              |                  |
| 06/15/24 |              |                  |
| 06/16/24 |              |                  |
| 06/17/24 |              |                  |
| 06/18/24 | 7.5          | 129,000          |
| 06/19/24 | 7.6          | 209,000          |
| 06/20/24 | 7.6          | 210,000          |
| 06/21/24 |              |                  |
| 06/22/24 |              |                  |
| 06/23/24 |              |                  |
| 06/24/24 |              |                  |
| 06/25/24 | 7.6          | 144,000          |
| 06/26/24 | 7.7          | 157,000          |
| 06/27/24 | 7.6          | 22,000           |
| 06/28/24 | 7.9          | 166,000          |
| 06/29/24 |              |                  |
| 06/30/24 |              |                  |
|          | <b>Total</b> | <b>6,341,000</b> |

Notes:

- su - Standard Unit
- gal - Gallons

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Second Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 04/03/2024 | 04/10/2024 | 04/17/2024 | 04/24/2024 | 05/01/2024 | 05/08/2024 | 05/15/2024 | 05/22/2024 | 05/29/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 0.22 J     | 0.23 J     | 0.31 J     | 0.34 J     | 0.22 J     | 0.32 J     | 0.32 J     | 1.0 U      | 0.24 J     |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.40 J     | 0.43 J     | 0.60 J     | 0.50 J     | 0.42 J     | 0.38 J     | 0.49 J     | 0.34 J     | 0.42 J     |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 2.9        | 3.0        | 2.9        | 2.7        | 2.5        | 2.7        | 3.2        | 3.2        | 3.8        |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 8.2        | 8.6        | 9.6        | 9.3        | 8.9        | 9.5        | 9.8        | 9.9        | 11         |
|                          | 1,2-Dichloropropane              | µg/L  | 0.88 J     | 0.85 J     | 0.95 J     | 0.96 J     | 0.96 J     | 0.98 J     | 1.0        | 1.0        | 0.93 J     |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      | 0.31 J     |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | Benzene                          | µg/L  | 31         | 30         | 45         | 47         | 44         | 43         | 46         | 40         | 36         |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      | 0.27 J     | 0.33 J     | 0.29 J     | 0.28 J     | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 0.77 J     | 1.1        | 1.3        | 1.5        | 1.2        | 2.0        | 2.5        | 1.0 U      | 2.6        |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 3.3        | 3.0        | 3.5        | 3.2        | 2.6        | 2.4        | 3.1        | 2.3        | 2.1        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 2.1        | 2.0        | 2.1        | 2.3        | 2.4        | 2.3        | 2.5        | 2.5        | 2.6        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 1.0 U      | 1.0 U      | 0.23 J     | 1.0 U      | 0.21 J     | 0.20 J     | 0.20 J     | 0.27 J     | 0.22 J     |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 0.21 J     | 1.0 U      | 0.31 J     | 0.46 J     | 0.42 J     | 0.38 J     | 0.36 J     | 0.35 J     | 0.24 J     |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 22         | 21         | 19         | 18         | 18         | 18         | 22         | 22         | 25         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0055     | 0.0048 J   | 0.0054     | 0.0102     | 0.0049 J   | 0.0035 J   | 0.0044 J   | 0.0050 U   | 0.0048 J   |

## Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Second Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 06/05/2024 | 06/12/2024 | 06/19/2024 | 06/26/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 1.0 U      | 0.29 J     | 1.0 U      | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.35 J     | 0.51 J     | 0.49 J     | 0.49 J     |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 2.9        | 3.6        | 3.4        | 3.0        |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 11         | 12         | 13         | 12         |
|                          | 1,2-Dichloropropane              | µg/L  | 0.99 J     | 1.2        | 1.1        | 1.1        |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Benzene                          | µg/L  | 44         | 55         | 42         | 43         |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 1.9        | 2.8        | 2.2        | 1.4        |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 3.2        | 4.5        | 2.7        | 2.6        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 2.4        | 2.9        | 3.1        | 2.9        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      | 2.0 U      | 2.0 U      | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      | 0.23 J     | 1.0 U      | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 0.20 J     | 0.28 J     | 0.22 J     | 0.24 J     |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 0.28 J     | 0.43 J     | 0.78 J     | 0.29 J     |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      | 2.0 U      | 2.0 U      | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 20         | 25         | 26         | 22         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0263     | 0.0203     | 0.0084     | 0.0097     |

## 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**  
**Second Quarter - 2024**  
**Hyde Park RRT Program**

|                         |                     |
|-------------------------|---------------------|
| <b>Sample Location:</b> | <b>EFFLUENT</b>     |
| <b>Sample ID:</b>       | <b>HP 61924 EFF</b> |
| <b>Sample Date:</b>     | <b>6/19/2024</b>    |

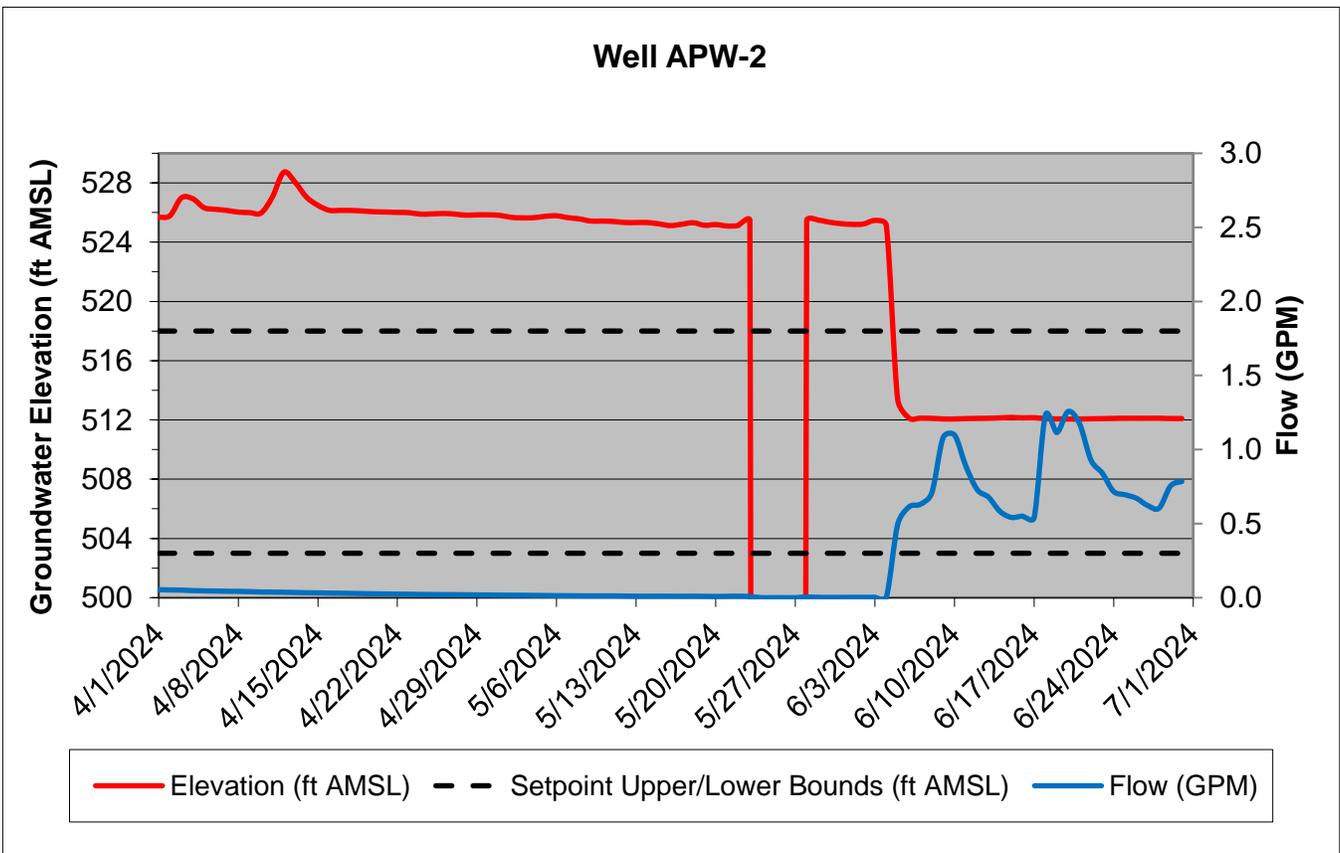
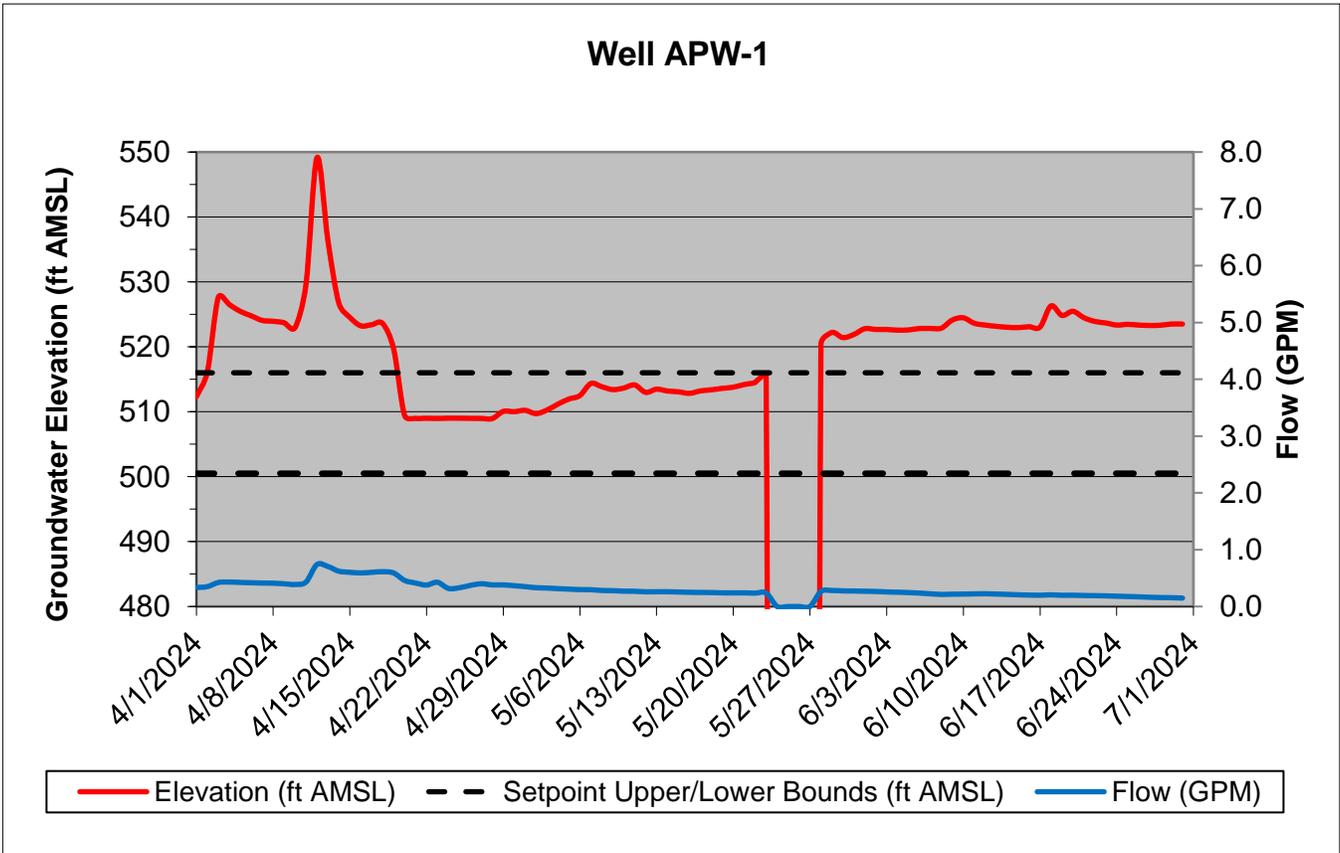
| <b>Parameters</b>                 | <b>Units</b> |       |
|-----------------------------------|--------------|-------|
| <b>Volatile Organic Compounds</b> |              |       |
| Vinyl chloride                    | µg/L         | 27.4  |
| <b>General Chemistry</b>          |              |       |
| Phosphorus                        | mg/L         | 0.337 |

## Notes:

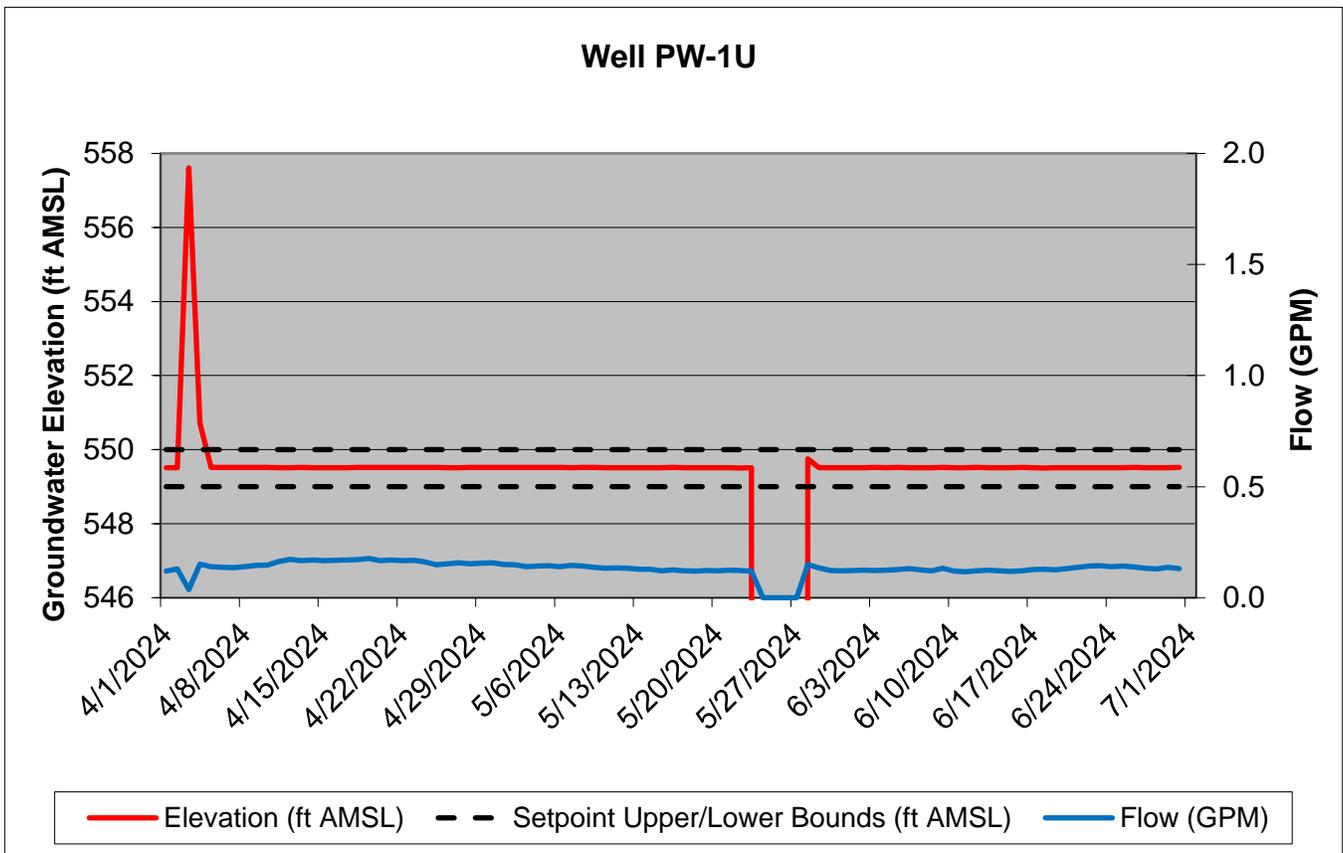
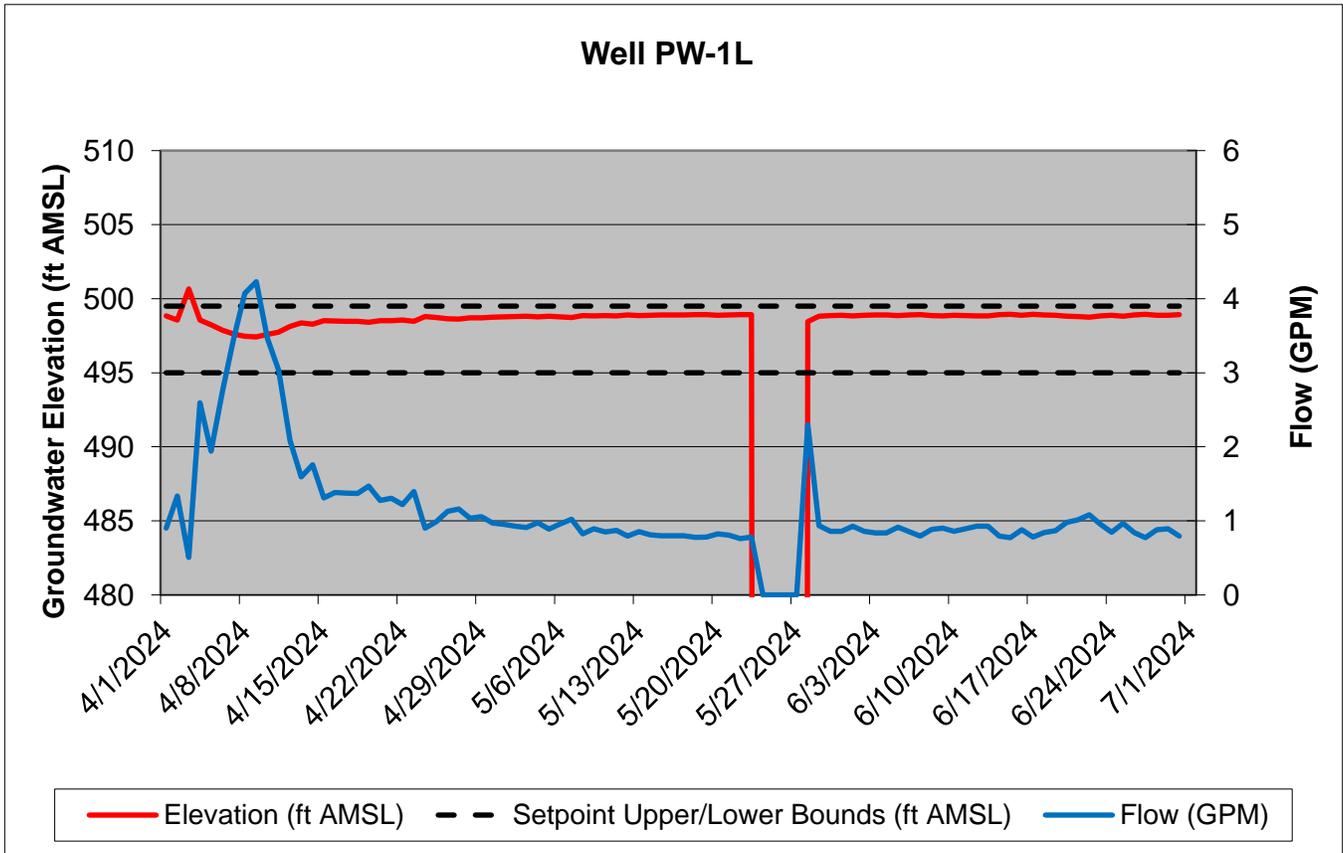
mg/L - Milligrams per liter

µg/L - Micrograms per liter

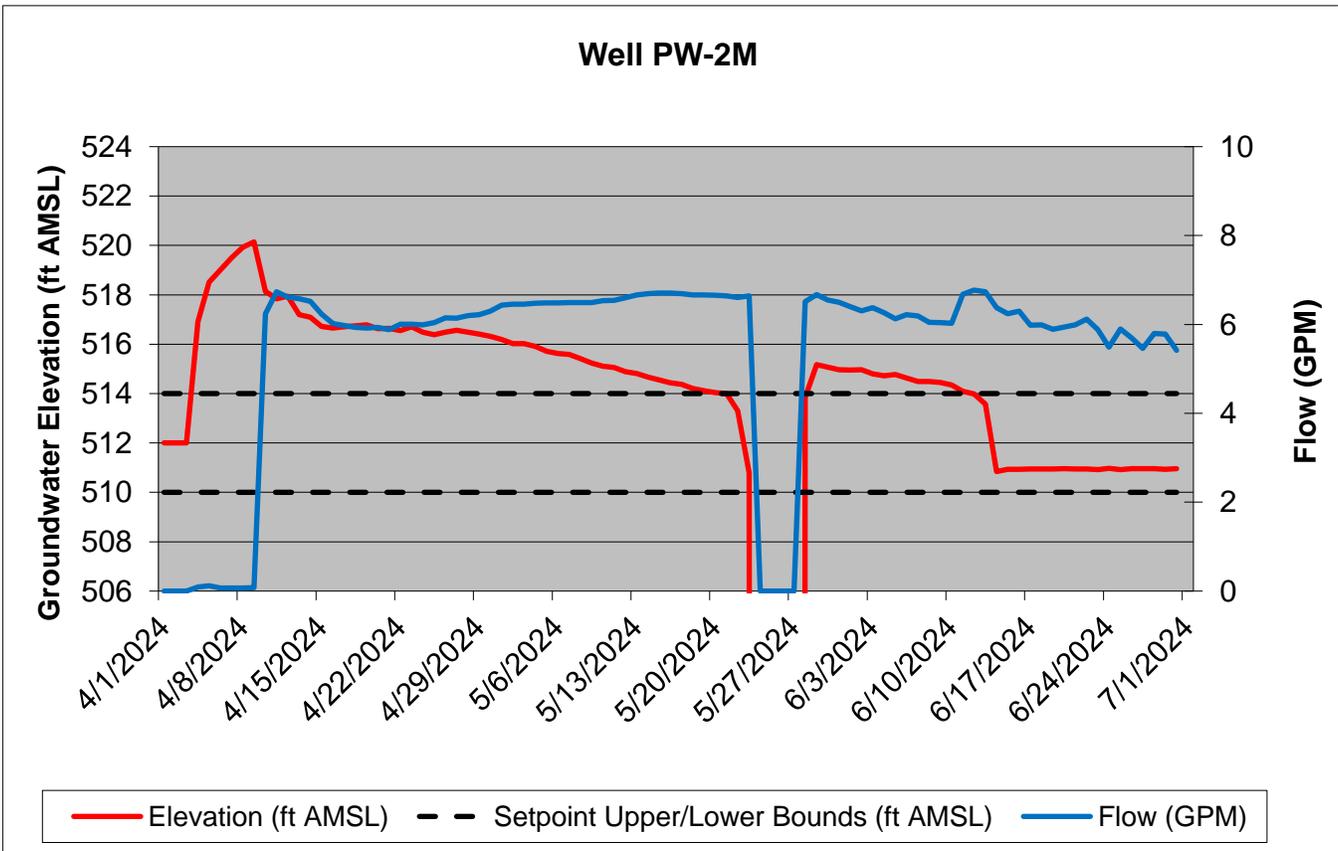
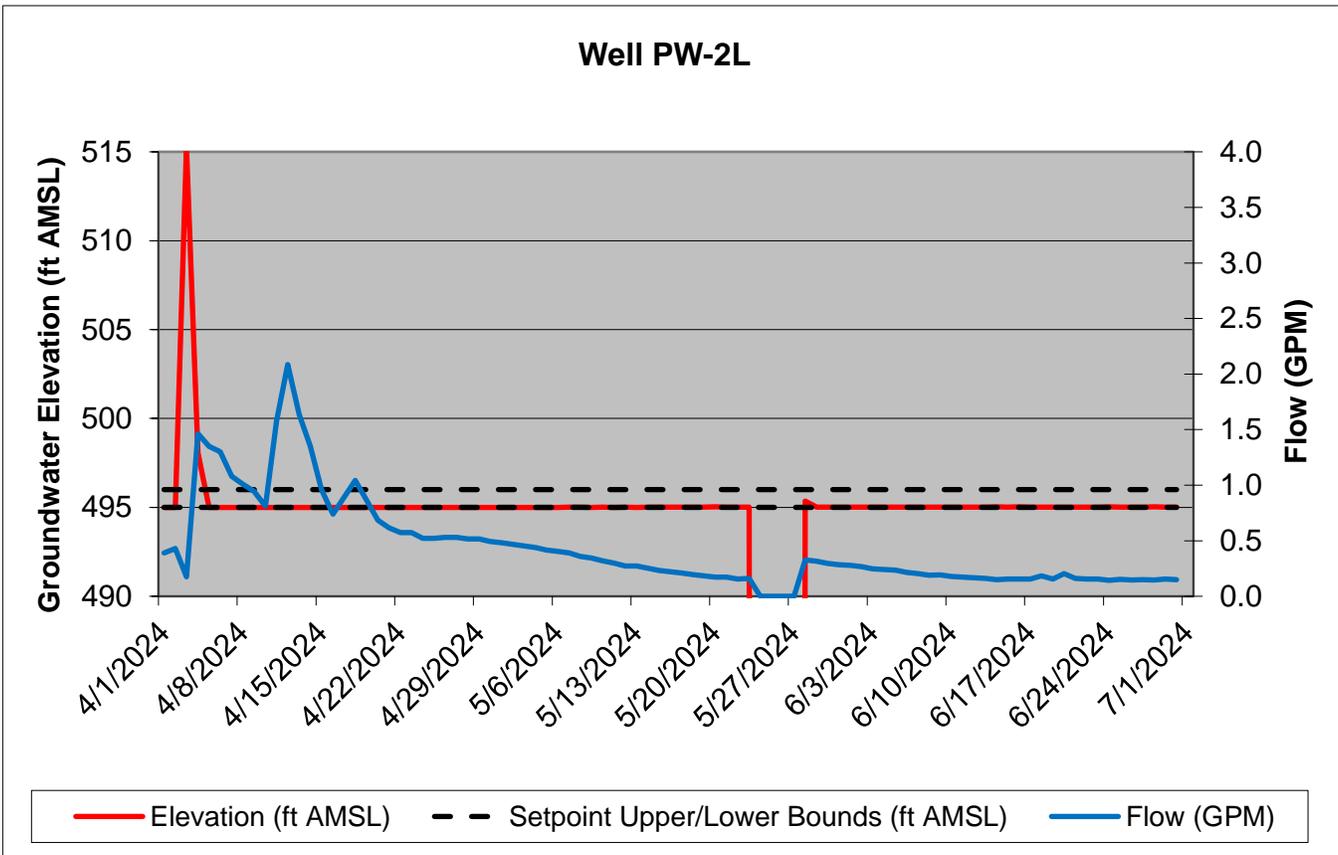
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



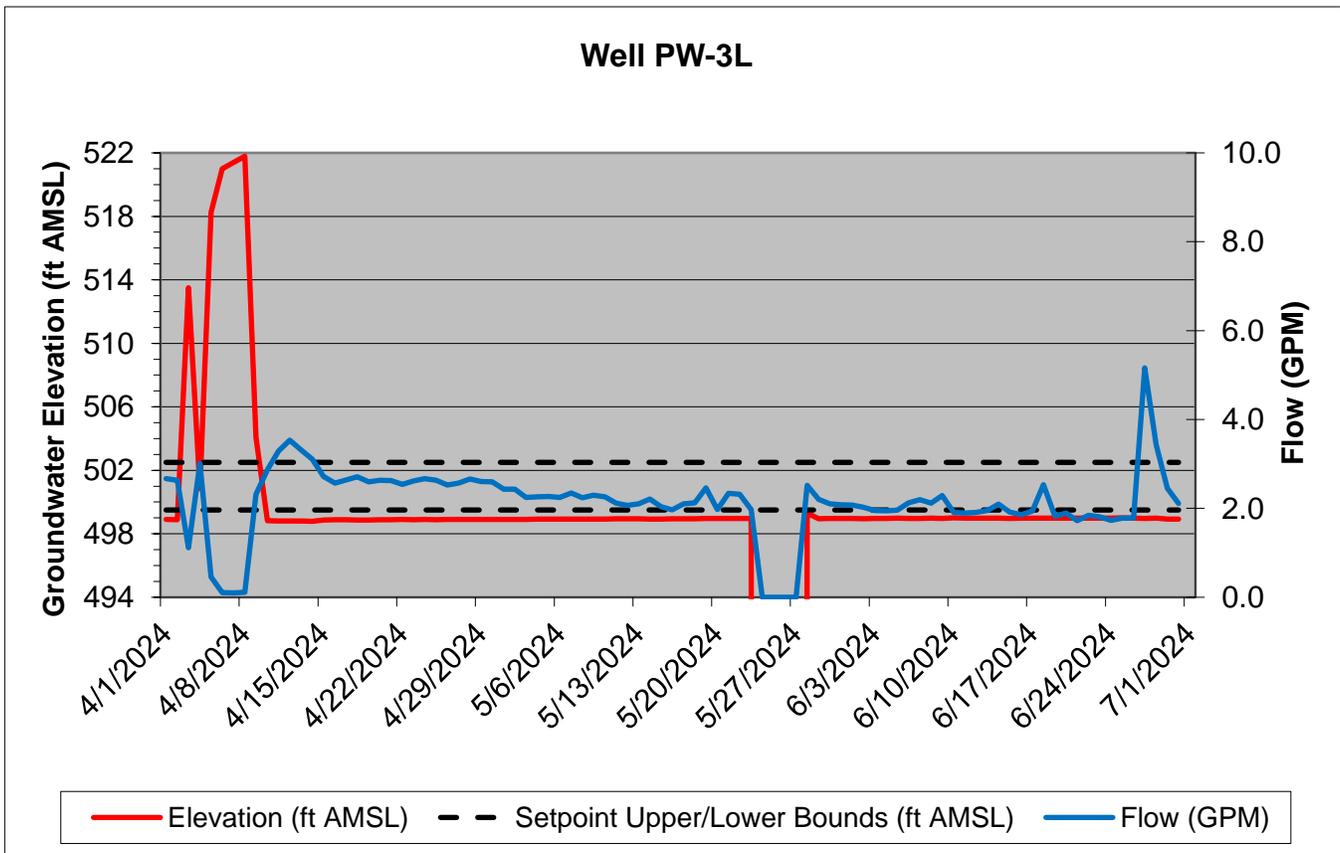
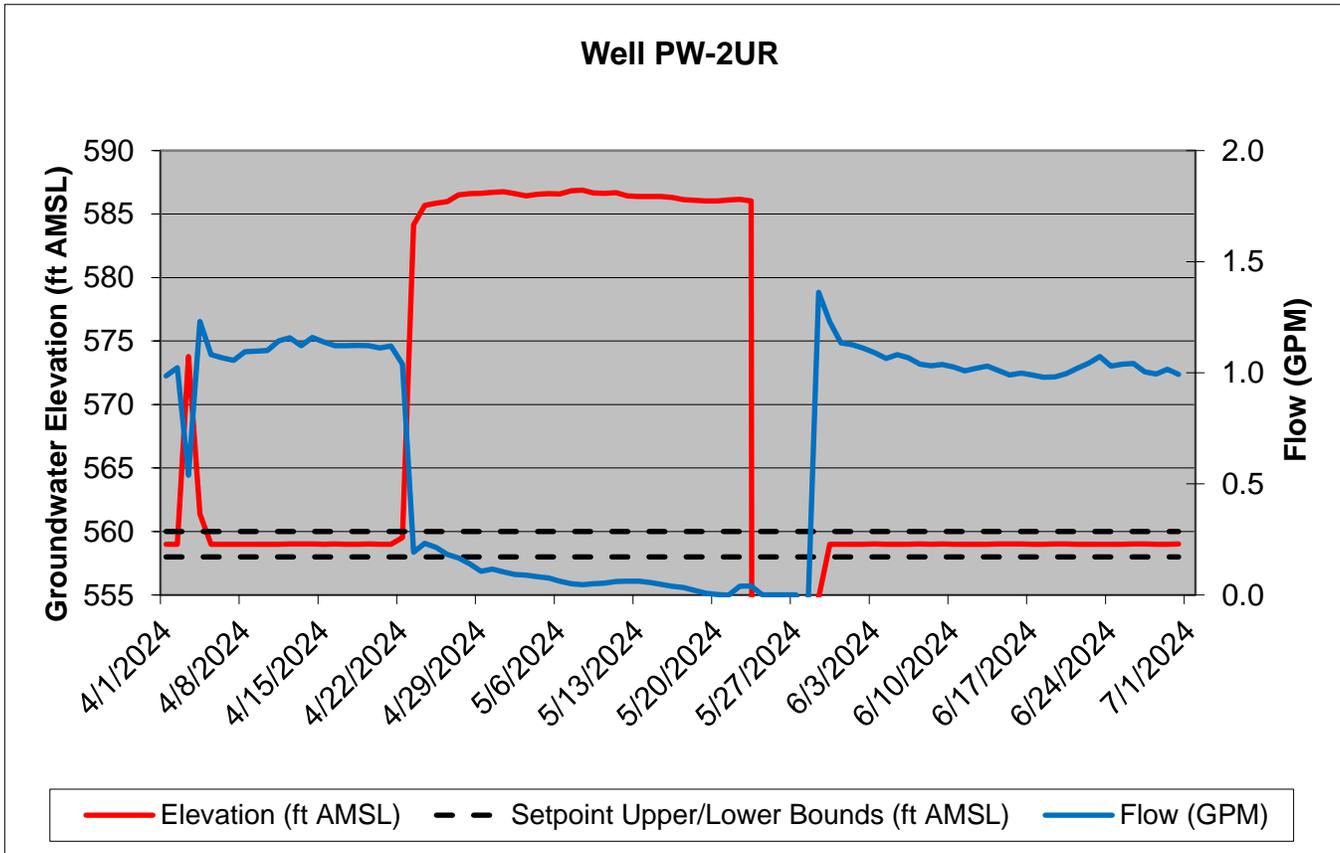
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



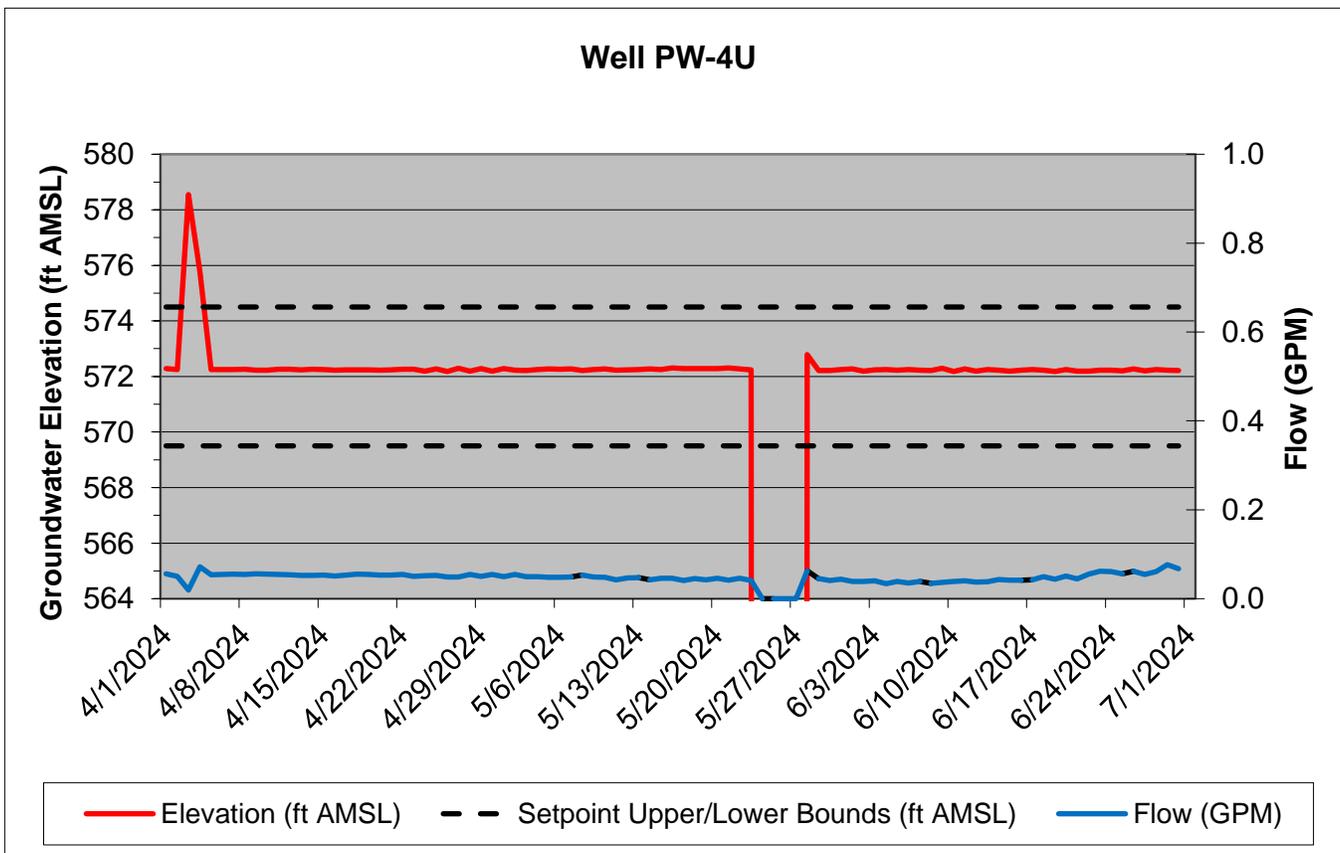
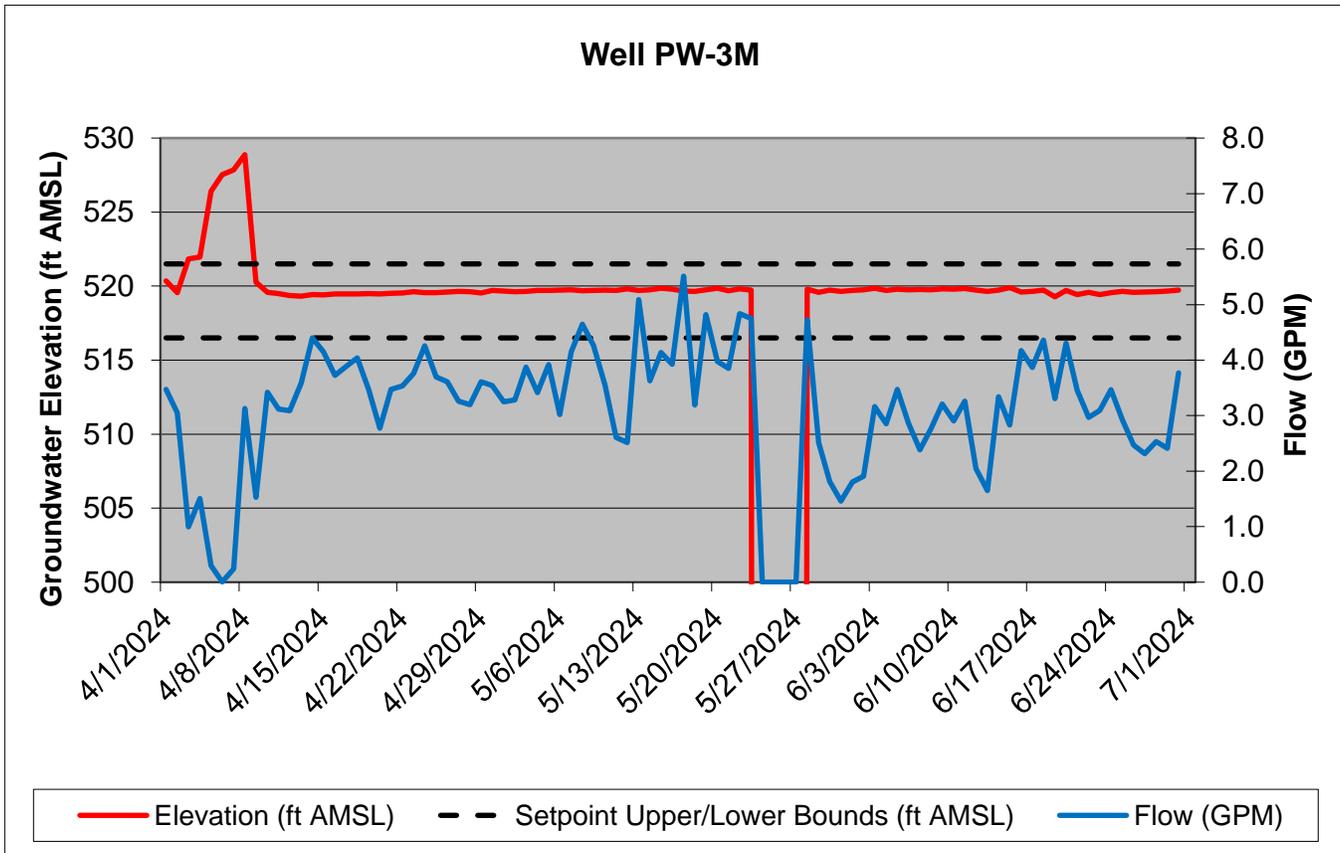
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



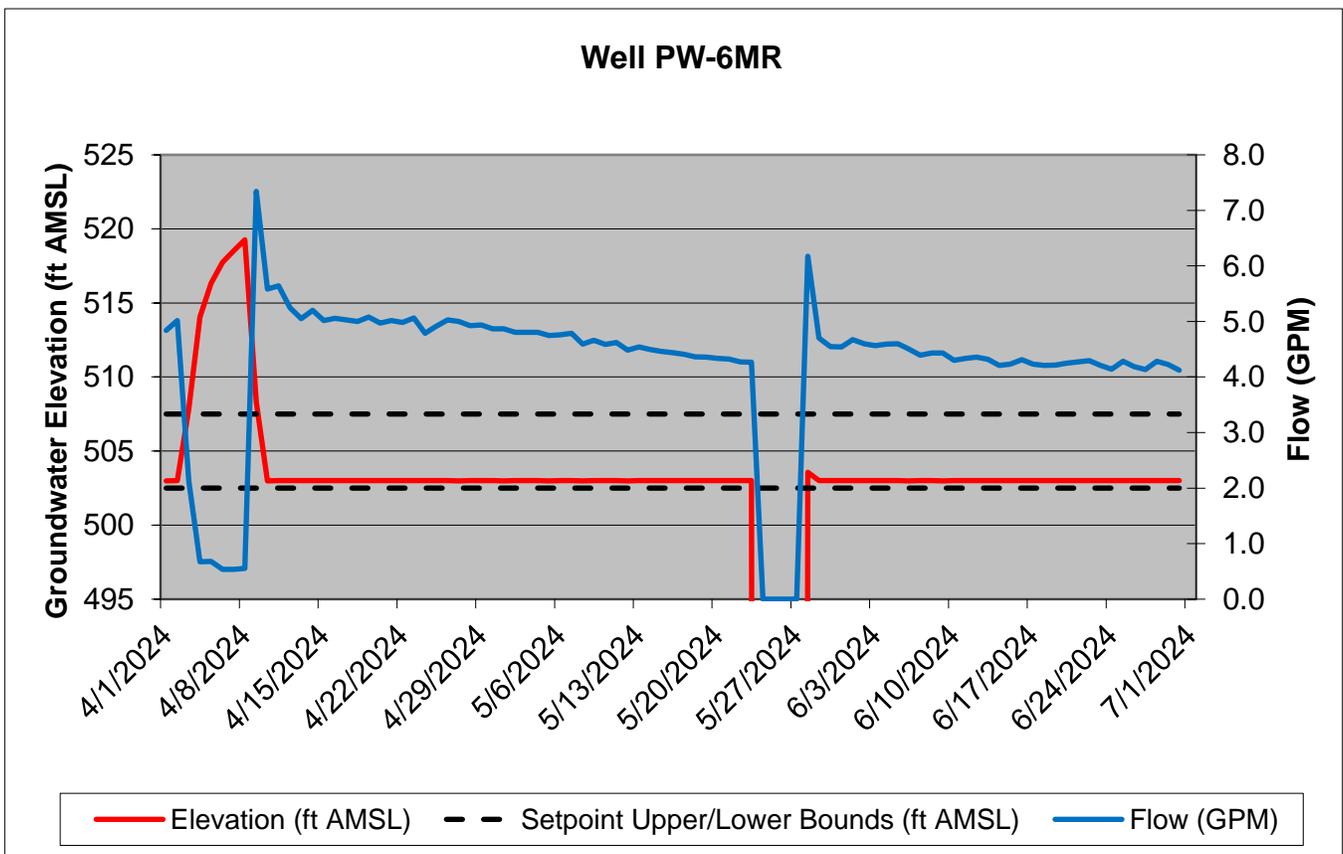
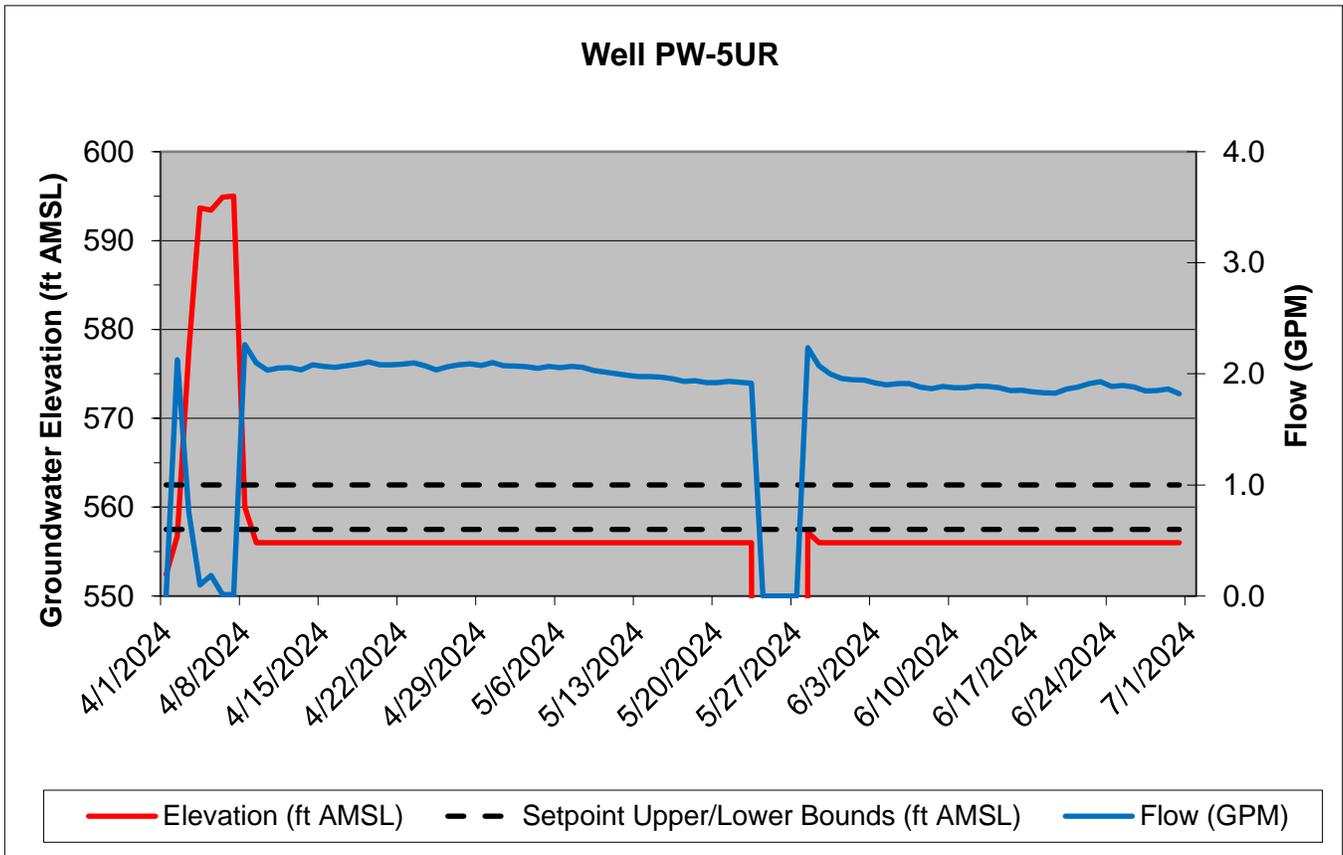
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



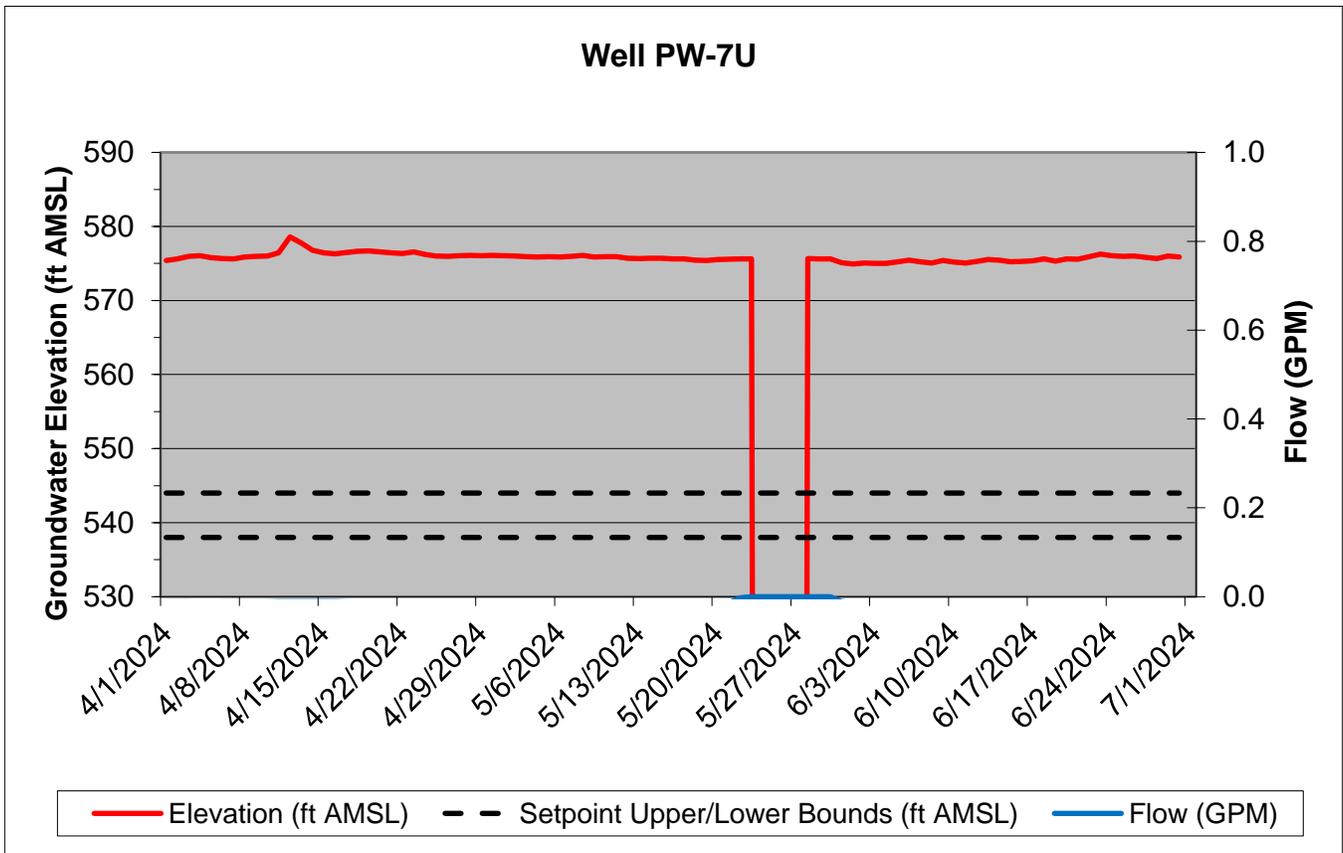
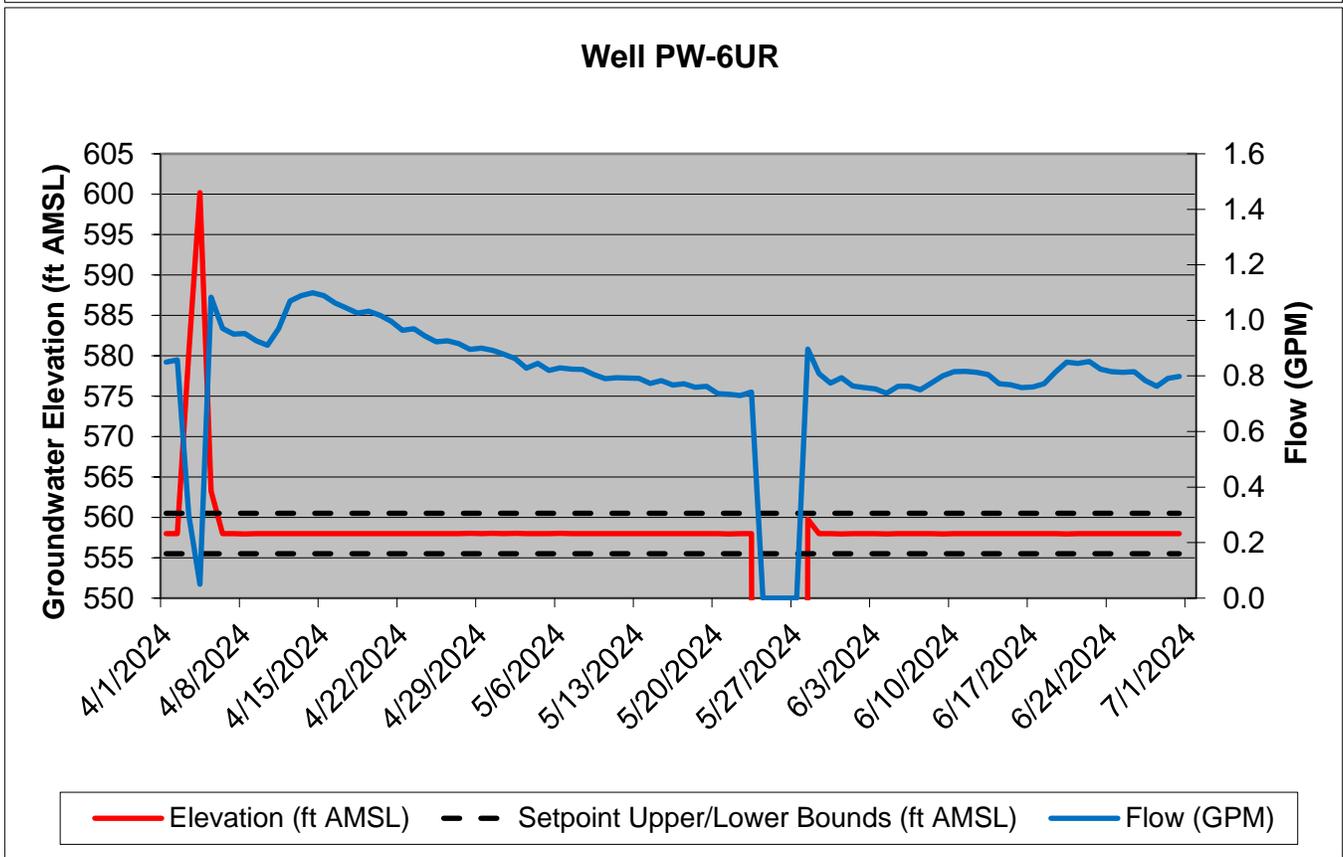
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



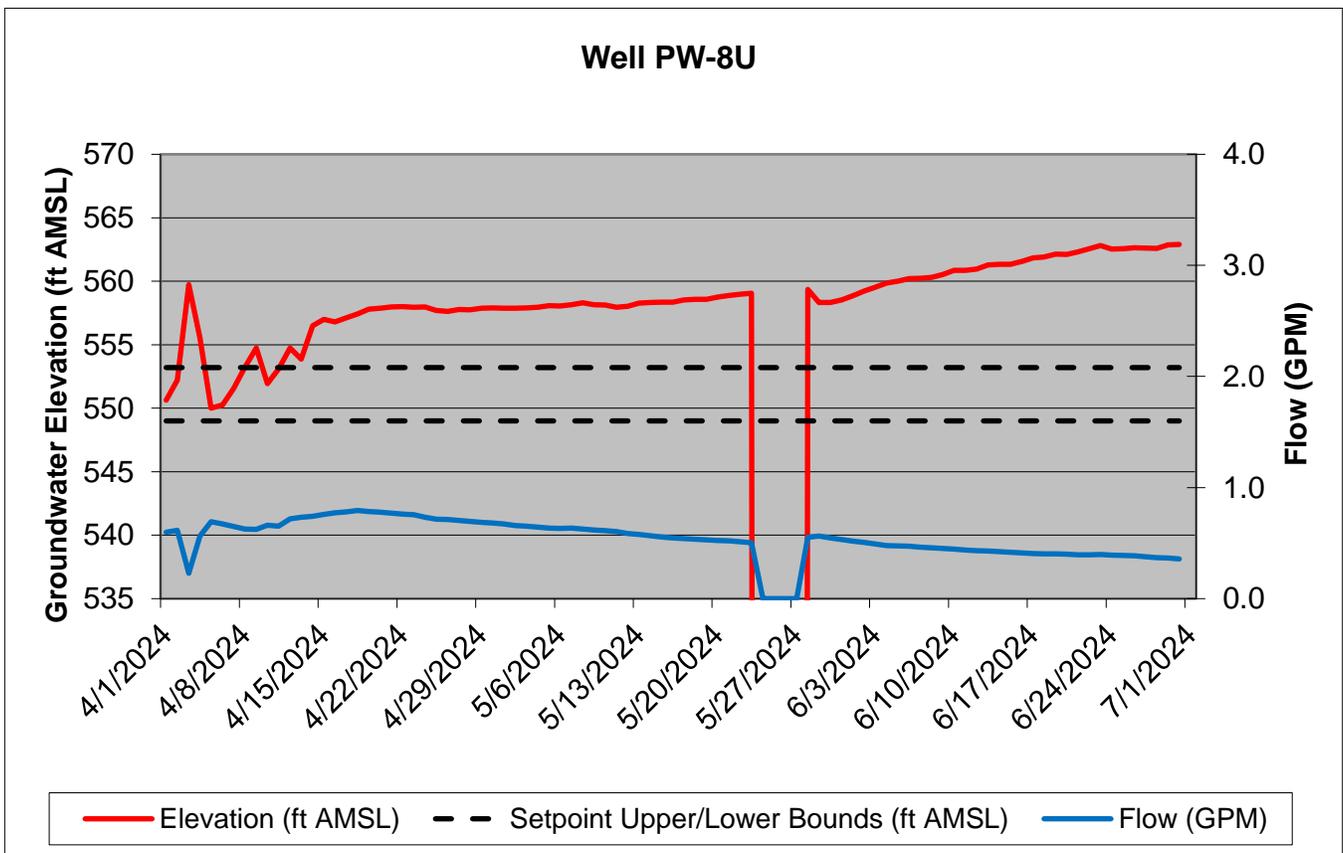
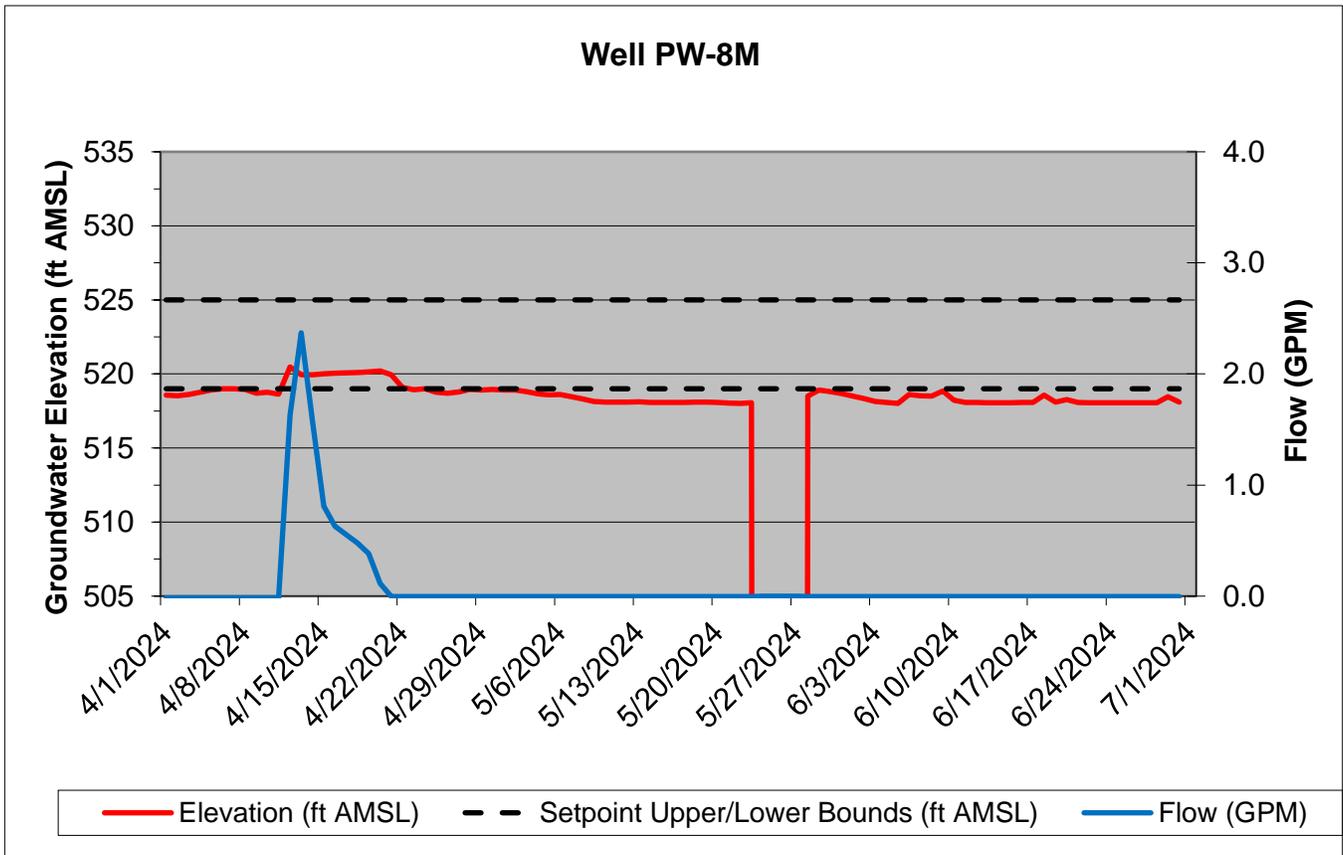
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



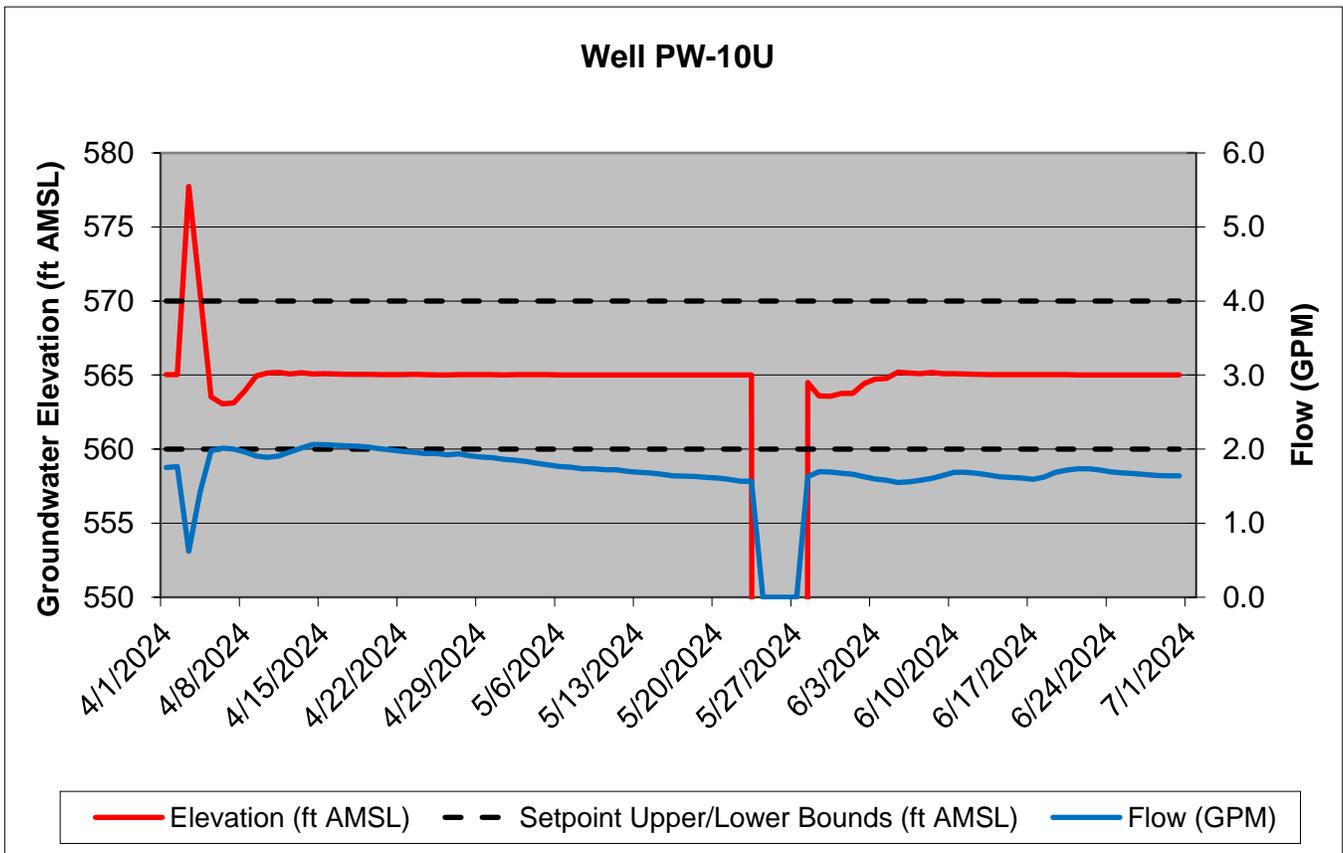
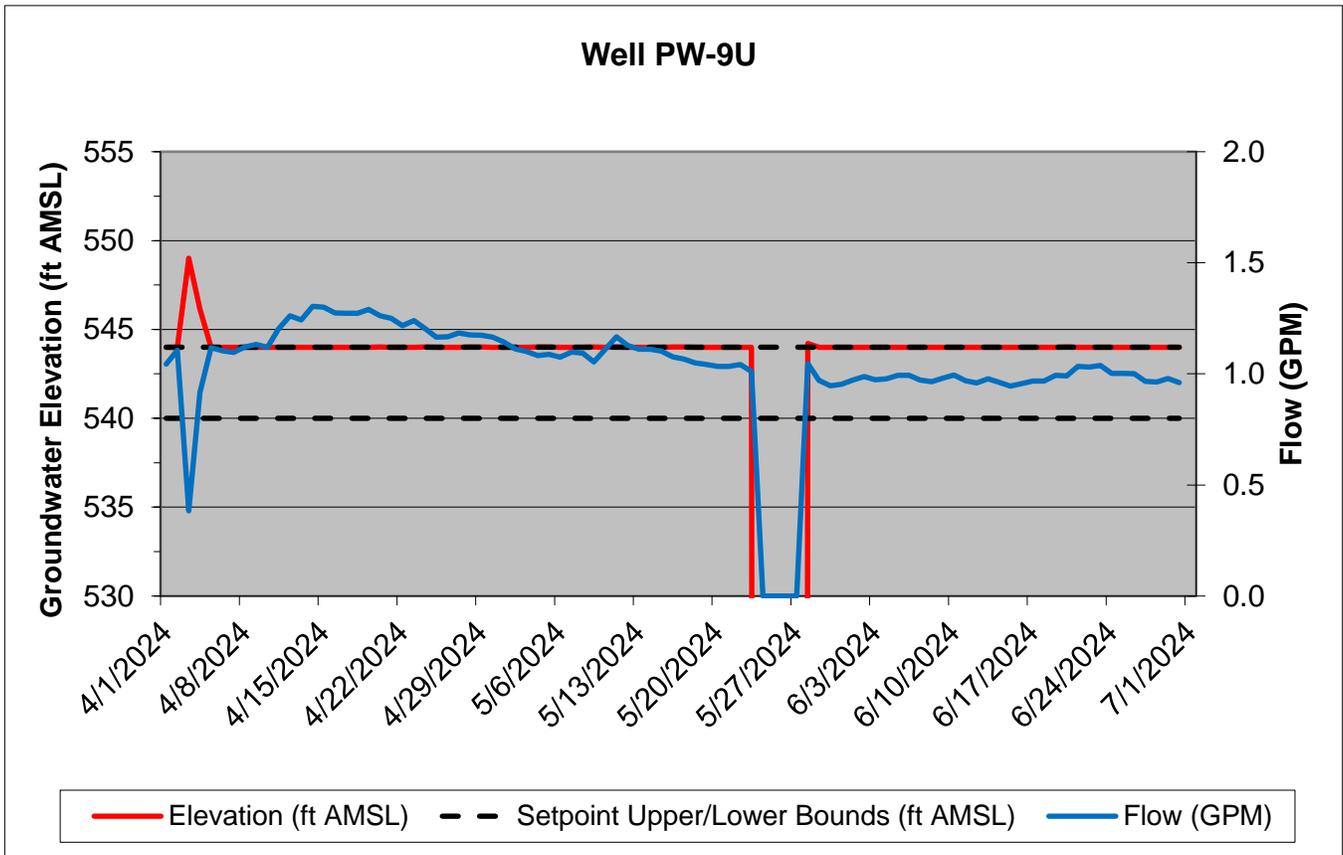
SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



SECOND QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK





# Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

---

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

---

7601 Old Channel Trail  
Montague, MI 49437

---

October 30, 2024

Reference No. 11230216

Ms. Maeve Wurtz  
USEPA Region II  
290 Broadway, 20th Floor  
New York, NY 10007-1866

Mr. Andrew Zwack  
NYSDEC  
700 Delaware Avenue  
Buffalo, NY 14209

Dear Ms. Wurtz and Mr. Zwack:

**Re: Quarterly Operations Report - Third Quarter 2024  
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 July 1, 2024 through September 30, 2024. A total of 3.9 million gallons of APL were collected, treated, and discharged in compliance with the Site's City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial User (SIU) Wastewater Discharge Permit #49. No waste was 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: Groundwater 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 groundwater elevations for the flow zone 9 piezometer PMW-1M-09 for the third quarter 2024 are presented on Figure 10. These groundwater elevations were less than 526 feet above mean sea level (AMSL) through the entire quarter, indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated throughout the entire quarter.

The pumping wells were operational and functioning as designed during the third quarter 2024, with the exception of the downtime periods discussed below. 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.

- 2 -

The water level in PW-7U exceeded setpoint range from July 1 through the end of the quarter while awaiting the delivery of a new pump and motor.

The following minor operational and setpoint issues were investigated and resolved during the third quarter of 2024:

- The water level in PW-8U exceeded setpoint range from July 1 through July 26 and from August 13 through August 20 due to a wiring issue with the pump. The issue was resolved and the water level returned to within setpoint range on July 27 and August 21, respectively.
- The water level in APW-1 exceeded setpoint range from July 1 through August 26 while awaiting a pump replacement. The pump was replaced on August 26 and the water level returned to within setpoint range on August 27.
- The water levels in the following wells exceeded setpoint range during the indicated periods due to a site-wide power outage that occurred on September 7 and September 8:
  - PW-1L, PW-4U, PW-5UR, PW-9U: September 9. Returned to within setpoint range on September 10.
  - PW-1U, PW-2L, PW-6UR: September 9 and 10. Returned to within setpoint range on September 11.
  - PW-2UR, PW-10U: September 9 through September 11. Returned to within setpoint range on September 12
  - PW-2M: September 10 through September 18. Returned to within setpoint range on September 19.
  - PW-6MR: September 10. Returned to within setpoint range on September 11.
  - PW-3L: September 6 through the end of the quarter. The pump did not reset following the power outage and will be replaced.
- The water levels in the following wells exceeded setpoint range during the indicated periods due to a site-wide power outage that occurred on September 25:
  - PW-1U, PW-1L, PW-2UR, PW-2M, PW-2L, PW-3M, PW-4U, PW-6MR: September 27 through the end of the quarter. These wells were pumping down during this period.
  - PW-5UR, PW-6UR, PW-9U, PW-10U: September 26 through the end of the quarter. These wells were pumping down during this period.

If you have any questions, please feel free to contact me at (231) 670-6809 or by email at [joseph\\_branch@oxy.com](mailto:joseph_branch@oxy.com).

Very truly yours,

October 30, 2024

Reference No. 11230216

- 3 -

GLENN SPRINGS HOLDINGS, INC.

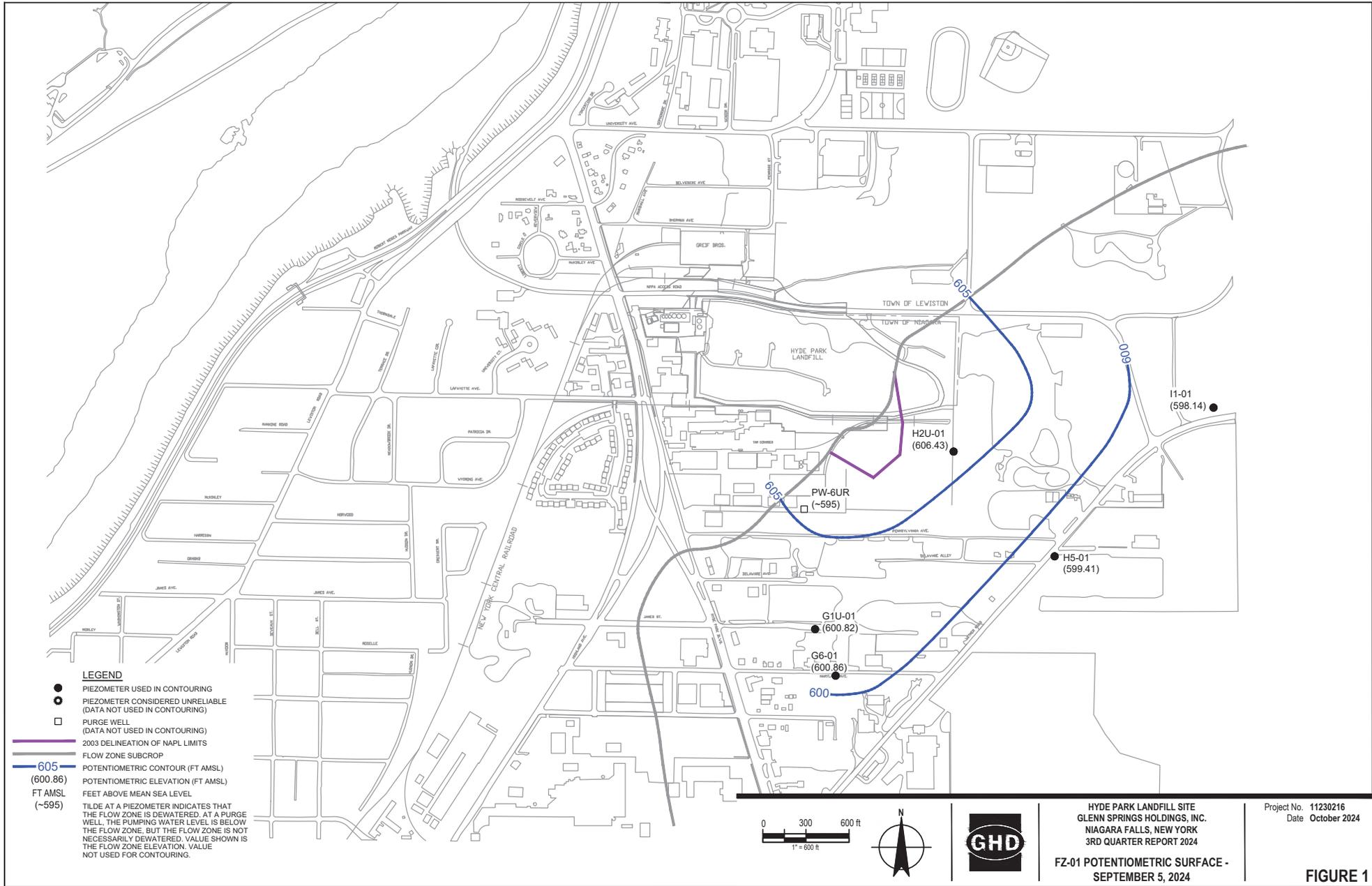
A handwritten signature in cursive script that reads "Joe Branch".

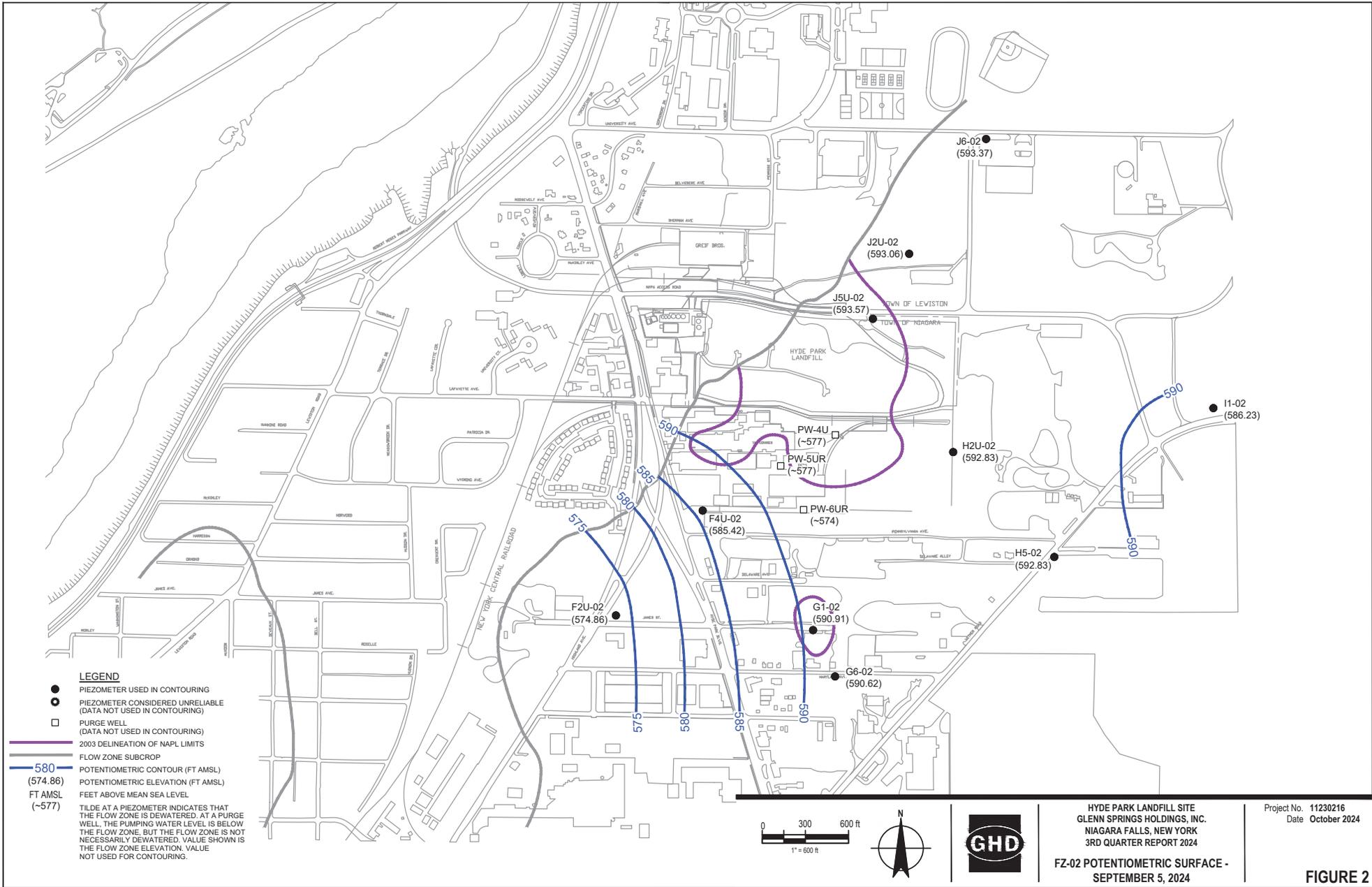
Joe Branch  
Project Manager  
231-670-6809 Cell

JB/13  
Encl.

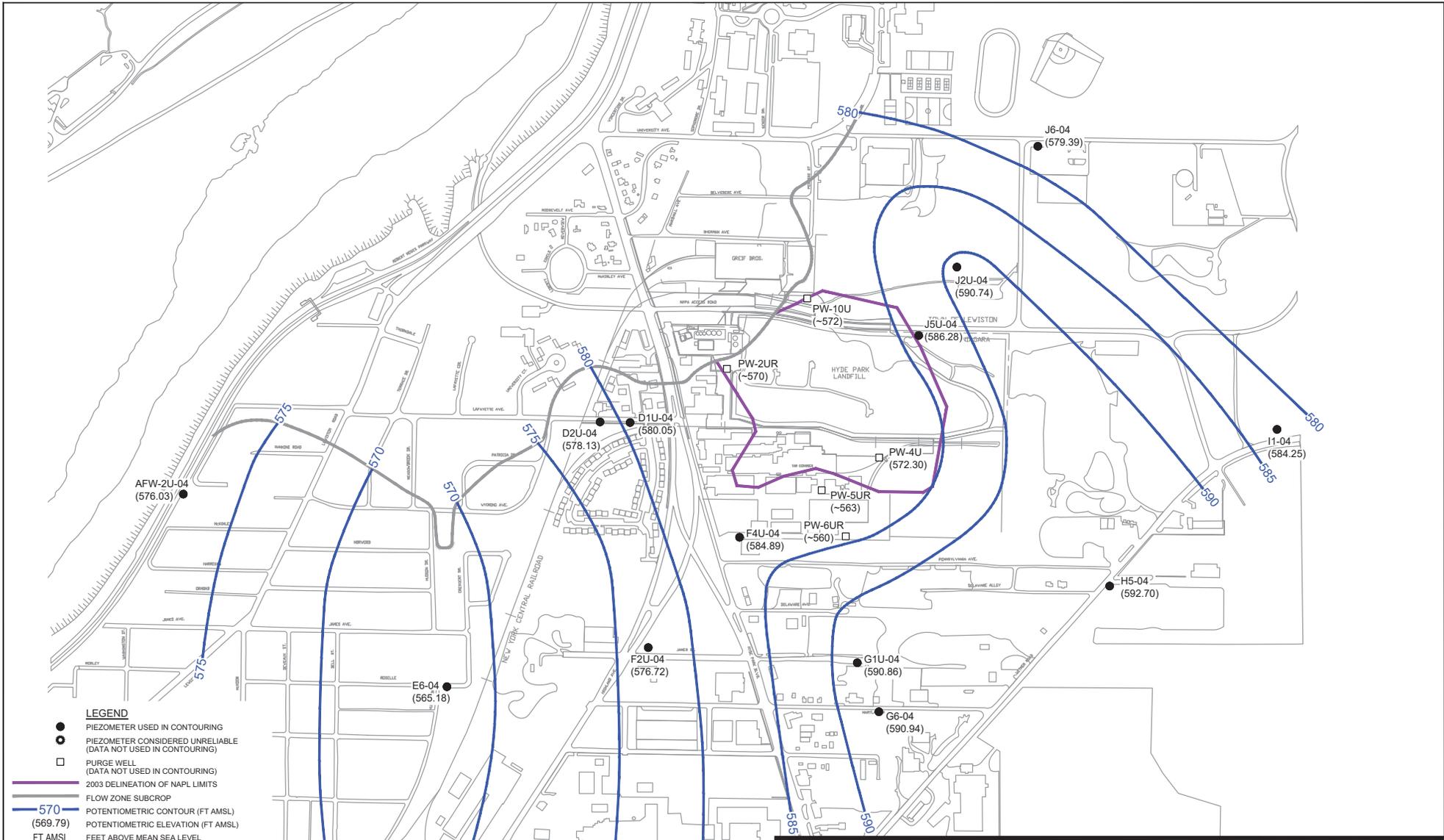
cc: B. McPherson, NYSDEC  
J. Robinson, NYSDOH

J. Pentilchuk, GHD  
M. Popek, GHD





Filename: I:\ghd\efg\US\Niagara Falls\Projects\564\11230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zwada05\11230216-GHD-00-00-LTR-EN-D102\_WA-Wurtz-Zwada05.dwg  
Plot Date: 04 October 2024 10:13 AM



**LEGEND**

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- 570 POTENTIOMETRIC CONTOUR (FT AMSL) (569.79)
- POTENTIOMETRIC ELEVATION (FT AMSL) FEET ABOVE MEAN SEA LEVEL
- ~ TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.

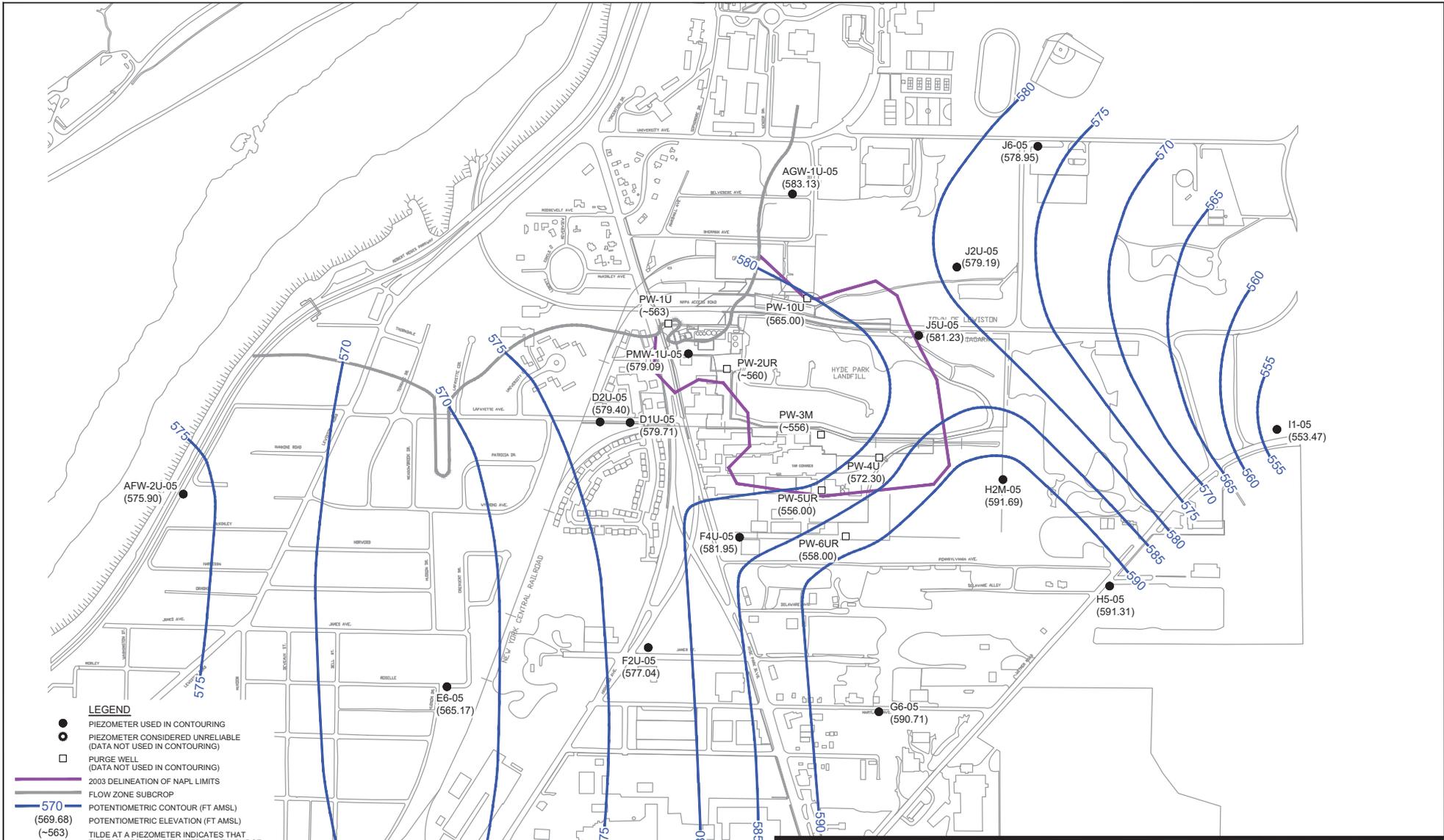


HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 3RD QUARTER REPORT 2024  
**FZ-04 POTENTIOMETRIC SURFACE -**  
**SEPTEMBER 5, 2024**

Project No. 11230216  
 Date October 2024

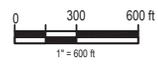
**FIGURE 3**

Filename: I:\ghd\light\US\Niagara Falls\Projects\564\11230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zwead\0511230216-GHD-00-00-LTR-EN-D103\_WA-Wurtz-Zwead\005.dwg  
 Plot Date: 04 October 2024 10:36 AM



**LEGEND**

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- 570 POTENTIOMETRIC CONTOUR (FT AMSL)
- (569.68) POTENTIOMETRIC ELEVATION (FT AMSL)
- (~563)
- TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.
- FT AMSL FEET ABOVE MEAN SEA LEVEL

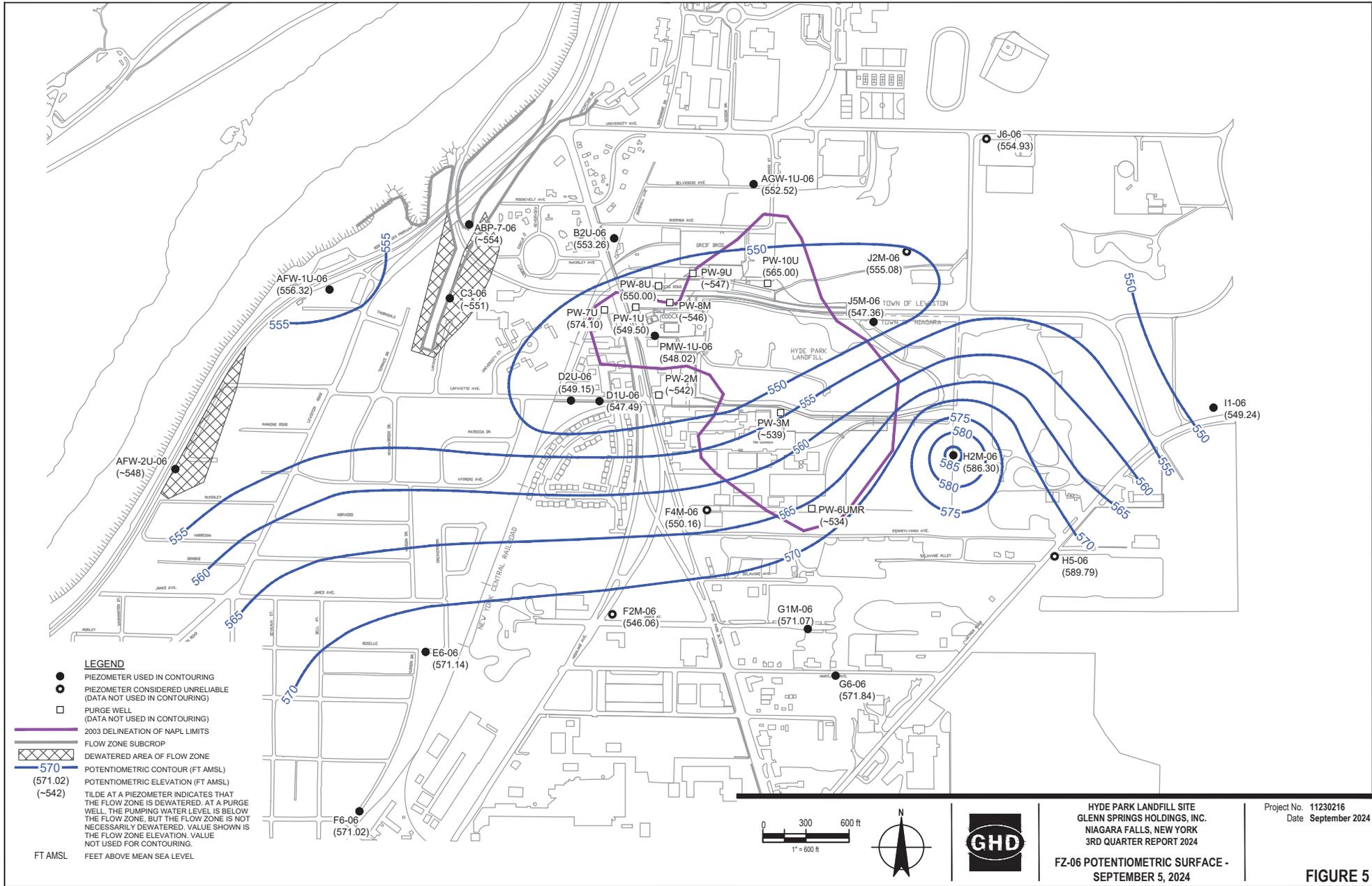


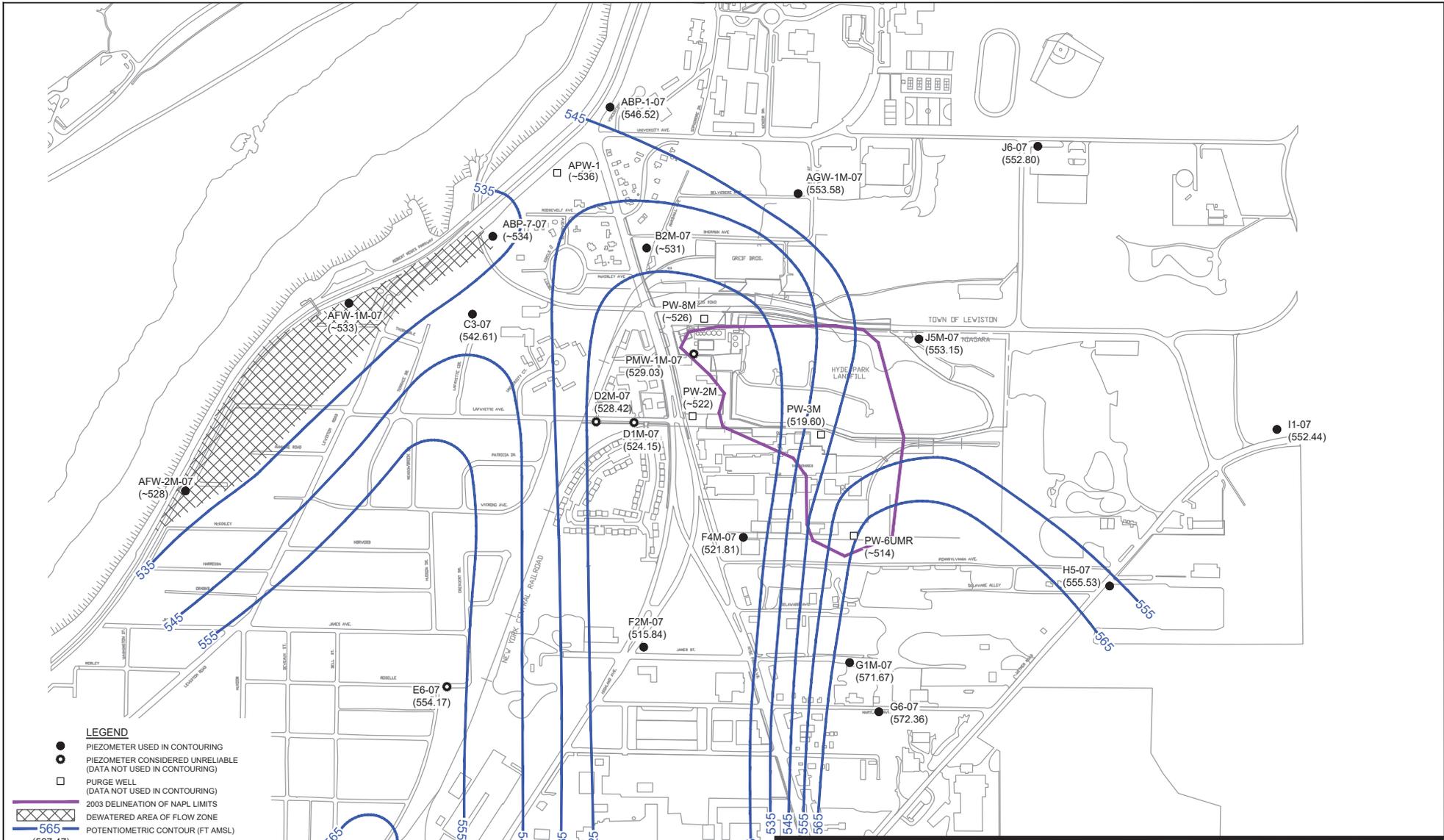
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 3RD QUARTER REPORT 2024  
**FZ-05 POTENTIOMETRIC SURFACE -**  
**SEPTEMBER 5, 2024**

Project No. 11230216  
 Date October 2024

**FIGURE 4**

Filename: I:\ghd\light\US\Niagara Falls\Projects\564\11230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zeaco\0511230216-GHD-00-00-LTR-EN-D104\_WA-Wurtz-Zeaco\005.dwg  
 Plot Date: 04 October 2024 1:14 PM



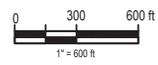


**LEGEND**

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- ▨ 2003 DELINEATION OF NAPL LIMITS
- ▨ DEWATERED AREA OF FLOW ZONE
- 565 POTENTIOMETRIC CONTOUR (FT AMSL)
- 567.47 POTENTIOMETRIC ELEVATION (FT AMSL)
- 526 POTENTIOMETRIC CONTOUR (FT AMSL)

TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.

FT AMSL FEET ABOVE MEAN SEA LEVEL.



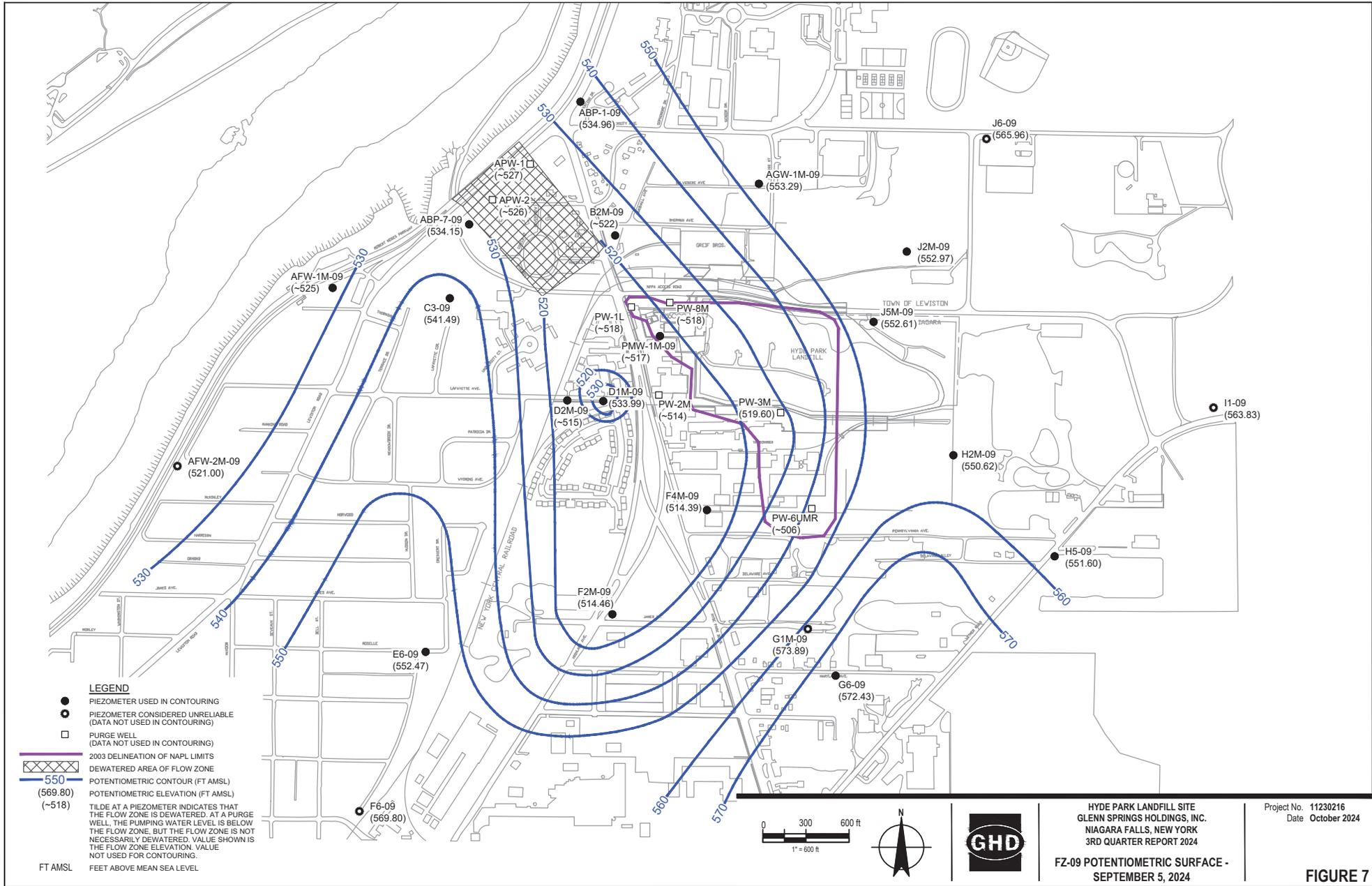
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 3RD QUARTER REPORT 2024

Project No. 11230216  
 Date October 2024

**FZ-07 POTENTIOMETRIC SURFACE -  
 SEPTEMBER 5, 2024**

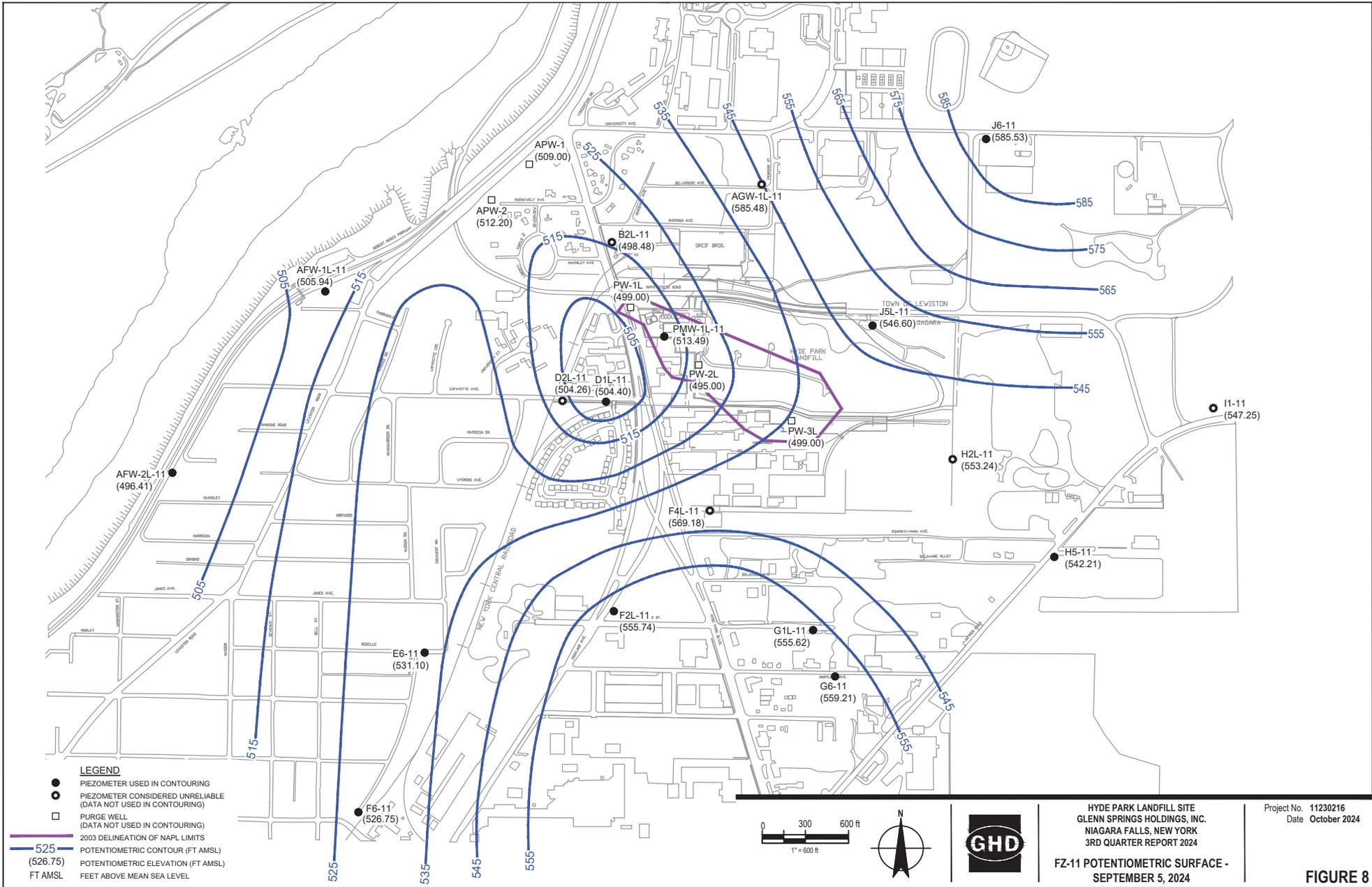
**FIGURE 6**

Filename: Ighd\flight\US\Niagara Falls\Projects\564\11230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zeas005\11230216-GHD-00-00-LTR-EN-D106\_WA-Wurtz-Zeas005.dwg  
 Plot Date: 04 October 2024 1:29 PM



Filename: I:\ghd\I\US\Niagara Falls\Projects\564\11230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zeas005\11230216-GHD-00-00-LTR-EN-D107\_WA-Wurtz-Zeas005.dwg  
 Plot Date: 25 October 2024 11:40 AM

**FIGURE 7**

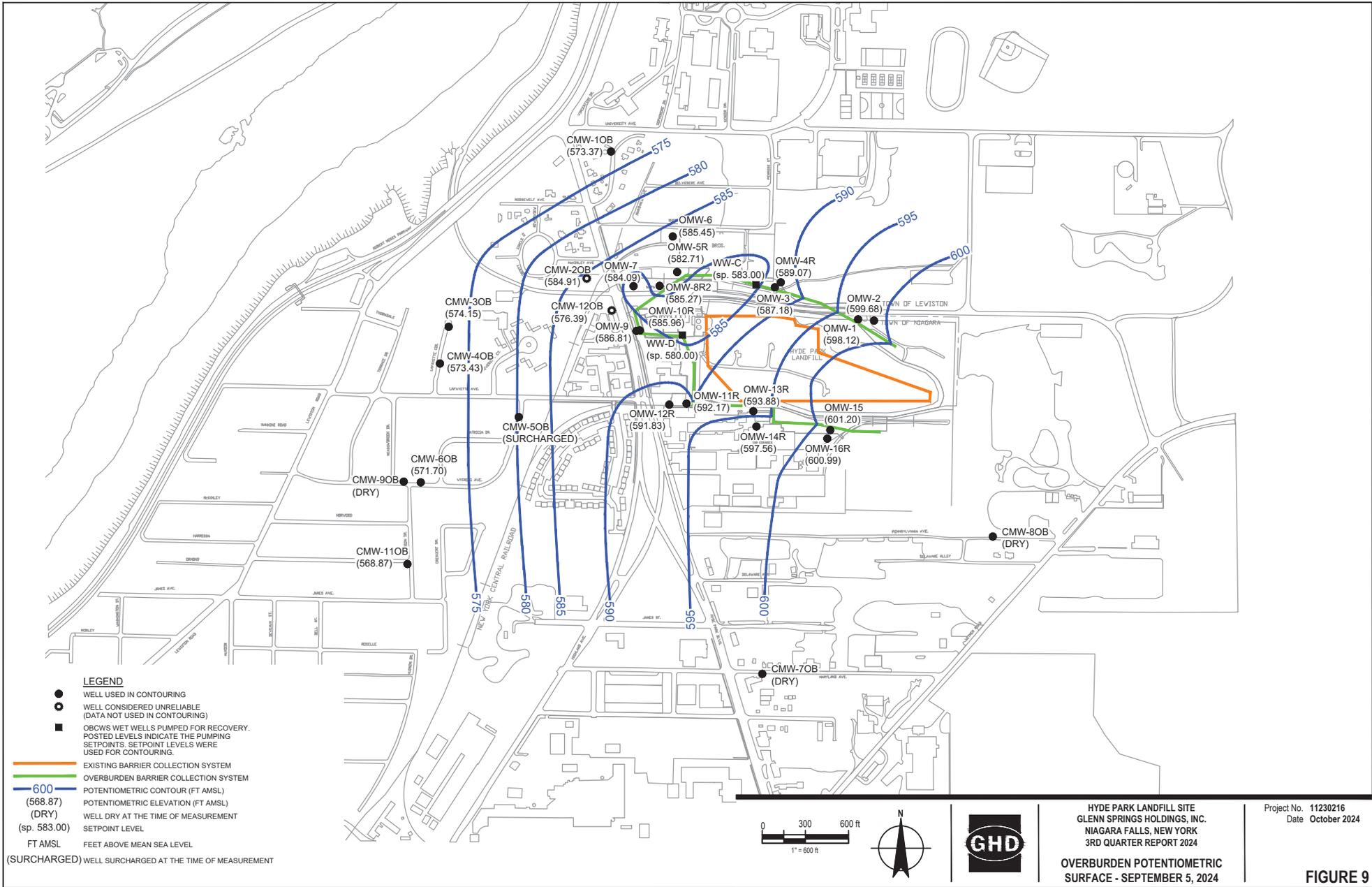


Filename: I:\ghd\light\US\Niagara Falls\Projects\564\11230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zwao005\11230216-GHD-00-00-LTR-EN-D108\_WA-Wurtz-Zwao005.dwg  
 Plot Date: 04 October 2024 1:55 PM

Project No. 11230216  
 Date October 2024

HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 3RD QUARTER REPORT 2024  
**FZ-11 POTENTIOMETRIC SURFACE -  
 SEPTEMBER 5, 2024**

**FIGURE 8**



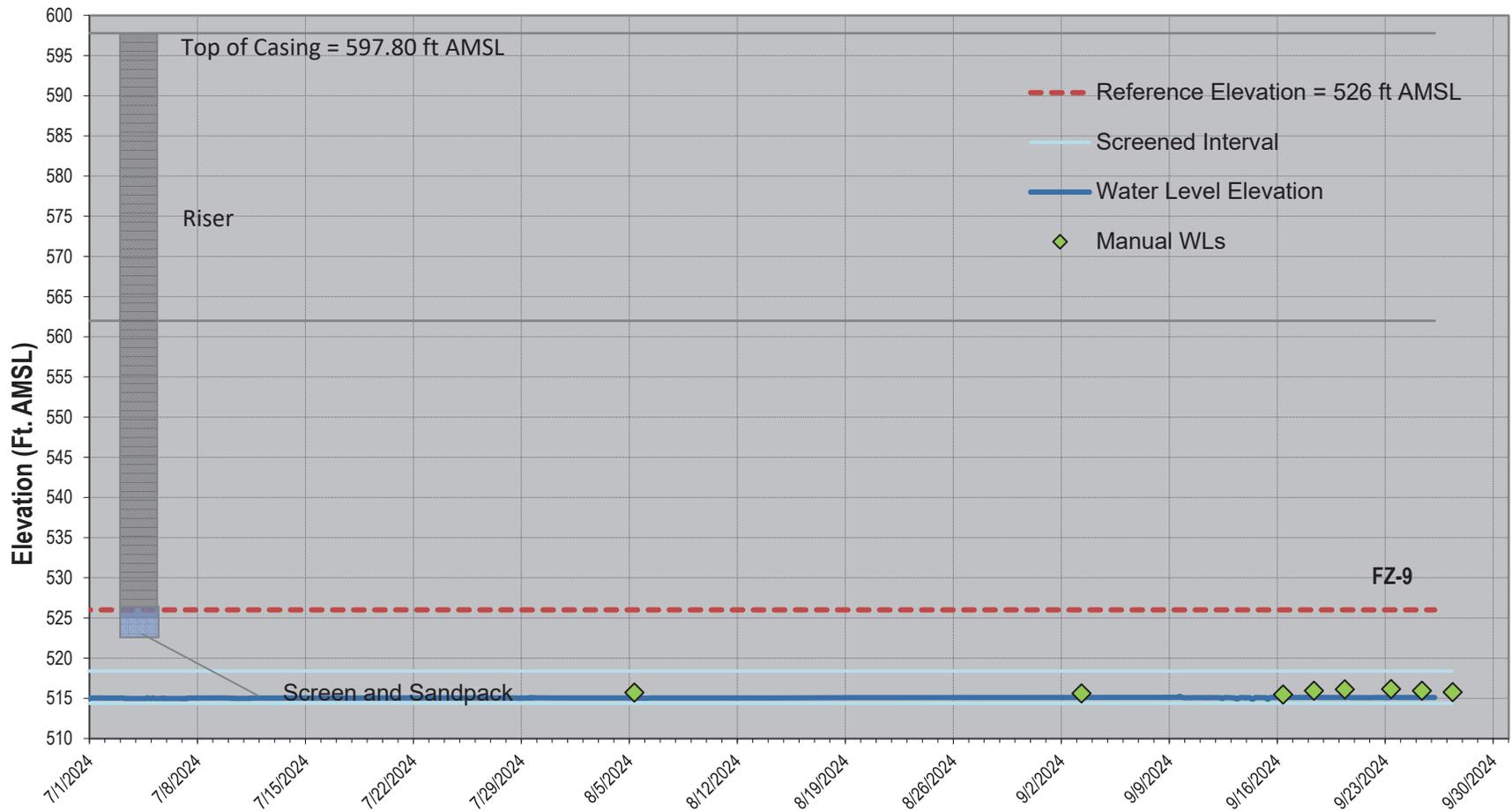


figure 10

PMW-1M-09 3rd Quarter 2024 - Hourly Water Level Elevation

3rd Quarter Report

Hyde Park Landfill Site

Glenn Springs Holdings, Inc.



**Glenn Springs Holdings, Inc.**

A subsidiary of Occidental Petroleum

**Groundwater Elevation Summary  
Third Quarter - 2024  
Hyde Park RRT Program**

| Well              | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|-------------------|----------------------------------|------------------------|------------------------------------|
| <b>Overburden</b> |                                  |                        |                                    |
| CMW-2OB           | 590.79                           | 5.88                   | 584.91                             |
| CMW-3OB           | 582.13                           | 7.98                   | 574.15                             |
| CMW-4OB           | 574.28                           | 0.85                   | 573.43                             |
| CMW-5OB           | 583.43                           | Surcharged             | -                                  |
| CMW-6OB           | 571.89                           | 0.19                   | 571.70                             |
| CMW-7OB           | 611.00                           | Dry                    | -                                  |
| CMW-8OB           | 616.11                           | Dry                    | -                                  |
| CMW-9OB           | 571.76                           | Dry                    | -                                  |
| CMW-1OB           | 576.80                           | 3.43                   | 573.37                             |
| CMW-11OB          | 572.85                           | 3.98                   | 568.87                             |
| CMW-12OB          | 594.74                           | 18.35                  | 576.39                             |
| MH20              | 605.87                           | 4.67                   | 601.20                             |
| MH21              | 599.77                           | 6.17                   | 593.60                             |
| MH22              | 593.37                           | Dry                    | -                                  |
| MH23              | 587.05                           | Dry                    | -                                  |
| MH24              | 582.57                           | 8.26                   | 574.31                             |
| MH25              | 583.82                           | 7.85                   | 575.97                             |
| MH26              | 584.48                           | 8.98                   | 575.50                             |
| MH27              | 586.12                           | 10.61                  | 575.51                             |
| MH28              | 585.23                           | 16.12                  | 569.11                             |
| MH29              | 604.58                           | 15.03                  | 589.55                             |
| MH30              | 599.49                           | 10.00                  | 589.49                             |
| MH31              | 590.10                           | 9.56                   | 580.54                             |
| MH32              | 592.01                           | 9.64                   | 582.37                             |
| MH33              | 592.51                           | 8.72                   | 583.79                             |
| MH34              | 598.34                           | 7.15                   | 591.19                             |
| MH35              | 605.69                           | 7.48                   | 598.21                             |
| MH35A             | 605.69                           | 6.58                   | 599.11                             |
| OMW-1             | 605.28                           | 7.16                   | 598.12                             |
| OMW-2             | 605.99                           | 6.31                   | 599.68                             |
| OMW-3             | 598.63                           | 11.45                  | 587.18                             |
| OMW-4R            | 601.17                           | 12.10                  | 589.07                             |
| OMW-5R            | 591.31                           | 8.60                   | 582.71                             |
| OMW-6             | 587.62                           | 2.17                   | 585.45                             |
| OMW-7             | 592.74                           | 8.65                   | 584.09                             |
| OMW-8R2           | 594.67                           | 9.40                   | 585.27                             |
| OMW-9             | 595.27                           | 8.46                   | 586.81                             |
| OMW-10R           | 595.13                           | 9.17                   | 585.96                             |
| OMW-11R           | 597.52                           | 5.35                   | 592.17                             |
| OMW-12R           | 596.71                           | 4.88                   | 591.83                             |
| OMW-13R           | 601.50                           | 7.62                   | 593.88                             |
| OMW-14R           | 599.64                           | 2.08                   | 597.56                             |
| OMW-15            | 607.48                           | 6.28                   | 601.20                             |
| OMW-16R           | 607.62                           | 6.63                   | 600.99                             |
| SC-2              | 625.61                           | 22.49                  | 603.12                             |
| SC-3              | 638.72                           | 39.97                  | 598.75                             |
| SC-4              | 639.35                           | 39.35                  | 600.00                             |
| SC-5              | 634.07                           | Dry                    | -                                  |
| SC-6              | 631.15                           | 21.76                  | 609.39                             |

**Groundwater Elevation Summary  
Third Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>            | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|------------------------|--|--------------------------------|--|
| <b>Shallow Bedrock</b> |  |                                |  |
| CMW-1SH                | 576.11                                   | 12.87                          | 563.24                                     |
| CMW-2SH                | 590.51                                   | 17.90                          | 572.61                                     |
| CMW-3SH                | 581.91                                   | 27.93                          | 553.98                                     |
| CMW-4SH                | 574.16                                   | 7.35                           | 566.81                                     |
| CMW-5SH                | 583.36                                   | 6.53                           | 576.83                                     |
| CMW-6SH                | 572.05                                   | 10.17                          | 561.88                                     |
| CMW-7SH                | 610.58                                   | 12.80                          | 597.78                                     |
| CMW-8SH                | 615.95                                   | 10.12                          | 605.83                                     |
| CMW-9SH                | 571.96                                   | 12.15                          | 559.81                                     |
| CMW-11SH               | 573.21                                   | 8.35                           | 564.86                                     |
| CMW-12SH               | 597.02                                   | 23.23                          | 573.79                                     |
| <b>Flow Zone 1</b>     |  |                                |  |
| G1U-01                 | 617.08                                   | 16.26                          | 600.82                                     |
| G6-01                  | 609.24                                   | 8.38                           | 600.86                                     |
| H2U-01                 | 620.92                                   | 14.49                          | 606.43                                     |
| H5-01                  | 617.61                                   | 18.20                          | 599.41                                     |
| I1-01                  | 625.58                                   | 27.44                          | 598.14                                     |
| <b>Flow Zone 2</b>     |  |                                |  |
| F2U-02                 | 599.89                                   | 25.03                          | 574.86                                     |
| F4U-02                 | 602.32                                   | 16.90                          | 585.42                                     |
| G1-02                  | 616.86                                   | 25.95                          | 590.91                                     |
| G6-02                  | 608.65                                   | 18.03                          | 590.62                                     |
| H2U-02                 | 620.88                                   | 28.05                          | 592.83                                     |
| H5-02                  | 617.47                                   | 24.64                          | 592.83                                     |
| I1-02                  | 625.47                                   | 39.24                          | 586.23                                     |
| J2U-02                 | 609.66                                   | 16.60                          | 593.06                                     |
| J5U-02                 | 606.21                                   | 12.64                          | 593.57                                     |
| J6-02                  | 609.23                                   | 15.86                          | 593.37                                     |
| <b>Flow Zone 4</b>     |  |                                |  |
| AFW-2U-04              | 593.48                                   | 17.45                          | 576.03                                     |
| D1U-04                 | 593.77                                   | 13.72                          | 580.05                                     |
| D2U-04                 | 590.65                                   | 12.52                          | 578.13                                     |
| E6-04                  | 578.23                                   | 13.05                          | 565.18                                     |
| F2U-04                 | 599.76                                   | 23.04                          | 576.72                                     |
| F4U-04                 | 602.19                                   | 17.30                          | 584.89                                     |
| F6-04                  | 588.06                                   | 18.27                          | 569.79                                     |
| G1U-04                 | 616.96                                   | 26.10                          | 590.86                                     |
| G6-04                  | 609.15                                   | 18.21                          | 590.94                                     |
| H5-04                  | 617.40                                   | 24.70                          | 592.70                                     |
| I1-04                  | 625.30                                   | 41.05                          | 584.25                                     |
| J2U-04                 | 609.42                                   | 18.68                          | 590.74                                     |
| J5U-04                 | 606.05                                   | 19.77                          | 586.28                                     |
| J6-04                  | 609.12                                   | 29.73                          | 579.39                                     |

**Groundwater Elevation Summary  
Third Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>        | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|--------------------|--|--------------------------------|--|
| <b>Flow Zone 5</b> |  |                                |  |
| AFW-2U-05          | 593.33                                   | 17.43                          | 575.90                                     |
| AGW-1U-05          | 591.80                                   | 8.67                           | 583.13                                     |
| D1U-05             | 593.51                                   | 13.80                          | 579.71                                     |
| D2U-05             | 590.56                                   | 11.16                          | 579.40                                     |
| E6-05              | 578.04                                   | 12.87                          | 565.17                                     |
| F2U-05             | 599.64                                   | 22.60                          | 577.04                                     |
| F4U-05             | 602.06                                   | 20.11                          | 581.95                                     |
| F6-05              | 587.85                                   | 18.17                          | 569.68                                     |
| G6-05              | 609.13                                   | 18.42                          | 590.71                                     |
| H2M-05             | 621.59                                   | 29.90                          | 591.69                                     |
| H5-05              | 617.31                                   | 26.00                          | 591.31                                     |
| I1-05              | 625.25                                   | 71.78                          | 553.47                                     |
| J2U-05             | 609.30                                   | 30.11                          | 579.19                                     |
| J5U-05             | 605.87                                   | 24.64                          | 581.23                                     |
| J6-05              | 609.02                                   | 30.07                          | 578.95                                     |
| PMW-1U-05          | 598.00                                   | 18.91                          | 579.09                                     |
| <b>Flow Zone 6</b> |  |                                |  |
| ABP-7-06           | 575.78                                   | Dry                            | -  |
| AFW-1U-06          | 571.83                                   | 15.56                          | 556.27                                     |
| AFW-2U-06          | 593.22                                   | 48.02                          | 545.20                                     |
| AGW-1U-06          | 591.66                                   | 39.14                          | 552.52                                     |
| B2U-06             | 589.29                                   | 36.03                          | 553.26                                     |
| C3-06              | 585.78                                   | Dry                            | -  |
| D1U-06             | 593.25                                   | 45.76                          | 547.49                                     |
| D2U-06             | 590.38                                   | 41.23                          | 549.15                                     |
| E6-06              | 577.99                                   | 6.85                           | 571.14                                     |
| F2M-06             | 599.06                                   | 53.00                          | 546.06                                     |
| F4M-06             | 602.05                                   | 51.89                          | 550.16                                     |
| F6-06              | 587.84                                   | 16.82                          | 571.02                                     |
| G1M-06             | 616.75                                   | 45.68                          | 571.07                                     |
| G6-06              | 609.09                                   | 37.25                          | 571.84                                     |
| H2M-06             | 621.42                                   | 35.12                          | 586.30                                     |
| H5-06              | 617.17                                   | 27.38                          | 589.79                                     |
| I1-06              | 625.15                                   | 75.91                          | 549.24                                     |
| J2M-06             | 608.94                                   | 53.86                          | 555.08                                     |
| J5M-06             | 606.22                                   | 58.86                          | 547.36                                     |
| J6-06              | 608.93                                   | 54.00                          | 554.93                                     |
| PMW-1U-06          | 597.92                                   | 49.90                          | 548.02                                     |

**Groundwater Elevation Summary  
Third Quarter - 2024  
Hyde Park RRT Program**

| Well               | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|--------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 7</b> |                                  |                        |                                    |
| ABP-1-07           | 575.20                           | 28.68                  | 546.52                             |
| ABP-7-07           | 575.73                           | 42.64                  | 533.09                             |
| AFW-1M-07          | 571.41                           | Dry                    | -                                  |
| AFW-2M-07          | 593.44                           | 66.83                  | 526.61                             |
| AGW-1M-07          | 592.91                           | 39.33                  | 553.58                             |
| B2M-07             | 589.52                           | Dry                    | -                                  |
| C3-07              | 585.62                           | 43.01                  | 542.61                             |
| D1M-07             | 594.15                           | 70.00                  | 524.15                             |
| D2M-07             | 590.77                           | 62.35                  | 528.42                             |
| E6-07              | 577.91                           | 23.74                  | 554.17                             |
| F2M-07             | 598.91                           | 83.07                  | 515.84                             |
| F4M-07             | 601.91                           | 80.10                  | 521.81                             |
| F6-07              | 587.68                           | 20.21                  | 567.47                             |
| G1M-07             | 616.68                           | 45.01                  | 571.67                             |
| G6-07              | 609.06                           | 36.70                  | 572.36                             |
| H5-07              | 617.05                           | 61.52                  | 555.53                             |
| I1-07              | 625.14                           | 72.70                  | 552.44                             |
| J5M-07             | 606.07                           | 52.92                  | 553.15                             |
| J6-07              | 608.85                           | 56.05                  | 552.80                             |
| PMW-1M-07          | 598.50                           | 69.47                  | 529.03                             |
| <b>Flow Zone 9</b> |                                  |                        |                                    |
| ABP-1-09           | 575.19                           | 40.23                  | 534.96                             |
| ABP-7-09           | 575.67                           | 41.52                  | 534.15                             |
| AFW-1M-09          | 571.12                           | 46.53                  | 524.59                             |
| AFW-2M-09          | 593.32                           | 72.32                  | 521.00                             |
| AGW-1M-09          | 592.75                           | 39.46                  | 553.29                             |
| B2M-09             | 589.34                           | Dry                    | -                                  |
| C3-09              | 585.00                           | 43.51                  | 541.49                             |
| D1M-09             | 594.02                           | 60.03                  | 533.99                             |
| D2M-09             | 590.66                           | 75.36                  | 515.30                             |
| E6-09              | 577.82                           | 25.35                  | 552.47                             |
| F2M-09             | 598.71                           | 83.35                  | 515.36                             |
| F4M-09             | 601.79                           | 87.40                  | 514.39                             |
| F6-09              | 587.53                           | 17.73                  | 569.80                             |
| G1M-09             | 616.58                           | 42.69                  | 573.89                             |
| G6-09              | 608.98                           | 36.55                  | 572.43                             |
| H2M-09             | 621.32                           | 70.70                  | 550.62                             |
| H5-09              | 616.93                           | 65.33                  | 551.60                             |
| I1-09              | 624.91                           | 61.08                  | 563.83                             |
| J2M-09             | 608.77                           | 55.80                  | 552.97                             |
| J5M-09             | 605.82                           | 53.21                  | 552.61                             |
| J6-09              | 608.76                           | 42.80                  | 565.96                             |
| PMW-1M-09          | 598.34                           | Dry                    | -                                  |

**Groundwater Elevation Summary  
Third Quarter - 2024  
Hyde Park RRT Program**

| Well                | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|---------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 11</b> |                                  |                        |                                    |
| AFW-1L-11           | 572.10                           | 66.16                  | 505.94                             |
| AFW-2L-11           | 593.43                           | 97.02                  | 496.41                             |
| AGW-1L-11           | 592.71                           | 7.23                   | 585.48                             |
| B2L-11              | 589.65                           | 91.17                  | 498.48                             |
| D1L-11              | 593.80                           | 89.40                  | 504.40                             |
| D2L-11              | 590.21                           | 85.95                  | 504.26                             |
| E6-11               | 577.72                           | 46.62                  | 531.10                             |
| F2L-11              | 598.94                           | 43.20                  | 555.74                             |
| F4L-11              | 602.22                           | 33.04                  | 569.18                             |
| F6-11               | 587.40                           | 60.65                  | 526.75                             |
| G1L-11              | 616.84                           | 61.22                  | 555.62                             |
| G6-11               | 608.89                           | 49.68                  | 559.21                             |
| H2L-11              | 620.73                           | 67.49                  | 553.24                             |
| H5-11               | 616.81                           | 74.60                  | 542.21                             |
| I1-11               | 624.75                           | 77.50                  | 547.25                             |
| J5L-11              | 607.20                           | 60.60                  | 546.60                             |
| J6-11               | 608.68                           | 23.15                  | 585.53                             |
| PMW-1L-11           | 598.84                           | 85.35                  | 513.49                             |
| <b>Purge Wells</b>  |                                  |                        |                                    |
| APW-1               | 564.98                           | 55.98                  | 509.00                             |
| APW-2               | 569.89                           | 57.69                  | 512.20                             |
| PW-1L               | 593.16                           | 94.16                  | 499.00                             |
| PW-1U               | 593.50                           | 44.00                  | 549.50                             |
| PW-2L               | 597.29                           | 102.29                 | 495.00                             |
| PW-2M               | 596.61                           | 85.61                  | 511.00                             |
| PW-2UR              | 594.75                           | 35.75                  | 559.00                             |
| PW-3L               | 599.05                           | 100.05                 | 499.00                             |
| PW-3M               | 597.79                           | 78.19                  | 519.60                             |
| PW-4M               | 606.93                           | 82.63                  | 524.30                             |
| PW-4U               | 604.85                           | 32.55                  | 572.30                             |
| PW-5UR              | 601.31                           | 45.31                  | 556.00                             |
| PW-6UMR             | 609.31                           | 106.31                 | 503.00                             |
| PW-6UR              | 608.47                           | 50.47                  | 558.00                             |
| PW-7U               | 592.47                           | 18.37                  | 574.10                             |
| PW-8M               | 592.67                           | 74.57                  | 518.10                             |
| PW-8U               | 589.27                           | 39.27                  | 550.00                             |
| PW-9U               | 587.47                           | 43.47                  | 544.00                             |
| PW-10U              | 593.54                           | 28.54                  | 565.00                             |

## Notes:

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

**Leachate Treatment System Daily Effluent Monitoring Data  
Third Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 07/01/24 | 7.6        | 174,000       |
| 07/02/24 | 7.6        | 168,000       |
| 07/03/24 |            |               |
| 07/04/24 |            |               |
| 07/05/24 |            |               |
| 07/06/24 |            |               |
| 07/07/24 |            |               |
| 07/08/24 |            |               |
| 07/09/24 | 7.7        | 151,000       |
| 07/10/24 | 7.6        | 83,000        |
| 07/11/24 | 7.6        | 189,000       |
| 07/12/24 |            |               |
| 07/13/24 |            |               |
| 07/14/24 |            |               |
| 07/15/24 | 7.7        | 192,000       |
| 07/16/24 | 7.6        | 189,000       |
| 07/17/24 | 7.7        | 191,000       |
| 07/18/24 |            |               |
| 07/19/24 |            |               |
| 07/20/24 |            |               |
| 07/21/24 |            |               |
| 07/22/24 |            |               |
| 07/23/24 | 7.5        | 172,000       |
| 07/24/24 | 7.6        | 172,000       |
| 07/25/24 | 7.7        | 21,000        |
| 07/26/24 |            |               |
| 07/27/24 |            |               |
| 07/28/24 |            |               |
| 07/29/24 |            |               |
| 07/30/24 | 7.6        | 120,000       |
| 07/31/24 | 7.7        | 159,000       |
| 08/01/24 |            |               |
| 08/02/24 |            |               |
| 08/03/24 |            |               |
| 08/04/24 |            |               |
| 08/05/24 |            |               |
| 08/06/24 | 7.6        | 150,000       |
| 08/07/24 | 7.8        | 143,000       |

**Leachate Treatment System Daily Effluent Monitoring Data  
Third Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 08/08/24 |            |               |
| 08/09/24 |            |               |
| 08/10/24 |            |               |
| 08/11/24 |            |               |
| 08/12/24 |            |               |
| 08/13/24 |            |               |
| 08/14/24 | 7.5        | 141,000       |
| 08/15/24 | 7.7        | 158,000       |
| 08/16/24 |            |               |
| 08/17/24 |            |               |
| 08/18/24 |            |               |
| 08/19/24 |            |               |
| 08/20/24 | 7.7        | 174,000       |
| 08/21/24 |            |               |
| 08/22/24 |            |               |
| 08/23/24 |            |               |
| 08/24/24 |            |               |
| 08/25/24 |            |               |
| 08/26/24 |            |               |
| 08/27/24 | 7.4        | 167,000       |
| 08/28/24 | 7.7        | 140,000       |
| 08/29/24 |            |               |
| 08/30/24 |            |               |
| 08/31/24 |            |               |
| 09/01/24 |            |               |
| 09/02/24 |            |               |
| 09/03/24 |            |               |
| 09/04/24 | 7.6        | 181,000       |
| 09/05/24 |            |               |
| 09/06/24 |            |               |
| 09/07/24 |            |               |
| 09/08/24 |            |               |
| 09/09/24 |            |               |
| 09/10/24 | 7.4        | 159,000       |
| 09/11/24 |            |               |
| 09/12/24 |            |               |
| 09/13/24 |            |               |
| 09/14/24 |            |               |

**Leachate Treatment System Daily Effluent Monitoring Data  
Third Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent     |               |
|----------|--------------|---------------|
|          | pH<br>(su)   | Flow<br>(gal) |
| 09/15/24 |              |               |
| 09/16/24 |              |               |
| 09/17/24 | 7.6          | 156,000       |
| 09/18/24 | 7.7          | 175,000       |
| 09/19/24 |              |               |
| 09/20/24 |              |               |
| 09/21/24 |              |               |
| 09/22/24 |              |               |
| 09/23/24 |              |               |
| 09/24/24 | 7.6          | 145,000       |
| 09/25/24 |              |               |
| 09/26/24 |              |               |
| 09/27/24 |              |               |
| 09/28/24 |              |               |
| 09/29/24 |              |               |
| 09/30/24 |              |               |
|          | <b>Total</b> | 3,870,000     |

Notes:

- su - Standard Unit
- gal - Gallons

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Third Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 07/03/2024 | 07/10/2024 | 07/17/2024 | 07/24/2024 | 07/31/2024 | 08/07/2024 | 08/14/2024 | 08/21/2024 | 08/28/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 0.23 J     | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.43 J     | 0.45 J     | 0.50 J     | 0.38 J     | 0.47 J     | 0.41 J     | 0.51 J     | 0.51 J     | 0.41 J     |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 3.2        | 3.3        | 3.1        | 3.3        | 3.3        | 3.4        | 3.7        | 3.6        | 3.4        |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 0.55 J     | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 11         | 12         | 12         | 12         | 13         | 13         | 13         | 13         | 13         |
|                          | 1,2-Dichloropropane              | µg/L  | 1.1        | 1.1        | 1.2        | 1.1        | 1.1        | 1.1        | 1.2        | 1.2        | 1.1        |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 0.63 J     | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | Benzene                          | µg/L  | 49         | 44         | 49         | 44         | 45         | 44         | 35         | 48         | 42         |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 3.8        | 3.3        | 2.6        | 1.5        | 1.0 U      | 1.3        | 1.0 U      | 2.0        | 1.9        |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 2.9        | 2.8        | 3.2        | 3.1        | 3.0        | 3.4        | 3.5        | 4.4        | 4.0        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 3.1        | 3.2        | 3.1        | 3.0        | 3.3        | 3.0        | 3.0        | 3.5        | 3.3        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      | 0.23 J     | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 0.27 J     | 0.30 J     | 0.23 J     | 0.28 J     | 0.29 J     | 0.30 J     | 0.25 J     | 0.29 J     | 0.29 J     |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 0.31 J     | 0.34 J     | 0.37 J     | 0.34 J     | 0.35 J     | 0.29 J     | 0.24 J     | 0.37 J     | 0.27 J     |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 21         | 25         | 20         | 23         | 25         | 25         | 28         | 28         | 29         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0127     | 0.0082     | 0.0177     | 0.0106     | 0.0067     | 0.0075     | 0.0084     | 0.0255     | 0.0151     |

## Notes:

J - Estimated concentration  
U - Not detected at the associated reporting limit  
mg/L - Milligrams per liter  
µg/L - Micrograms per liter

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Third Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 09/04/2024 | 09/11/2024 | 09/18/2024 | 09/25/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 1.0 U      | 0.29 J     | 1.0 U      | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.53 J     | 0.41 J     | 0.52 J     | 0.44 J     |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 3.6        | 3.4        | 4.0        | 3.1        |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 13         | 12         | 13         | 13         |
|                          | 1,2-Dichloropropane              | µg/L  | 1.1        | 1.1        | 1.4        | 0.98 J     |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Benzene                          | µg/L  | 34         | 40         | 43         | 36         |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 1.8        | 2.7        | 4.7        | 2.2        |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 3.7        | 4.2        | 4.8        | 4.9        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 3.2        | 3.0        | 3.4        | 3.0        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      | 2.0 U      | 2.0 U      | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 0.97 J     | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 0.28 J     | 0.29 J     | 0.30 J     | 0.25 J     |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 0.21 J     | 0.31 J     | 0.24 J     | 0.32 J     |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      | 2.0 U      | 2.0 U      | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 33         | 30         | 36         | 24         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0143     | 0.0335     | 0.0195     | 0.0200     |

## 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  
Third Quarter - 2024  
Hyde Park RRT Program**

|                         |                     |
|-------------------------|---------------------|
| <b>Sample Location:</b> | <b>EFFLUENT</b>     |
| <b>Sample ID:</b>       | <b>HP 92524 EFF</b> |
| <b>Sample Date:</b>     | <b>9/25/2024</b>    |

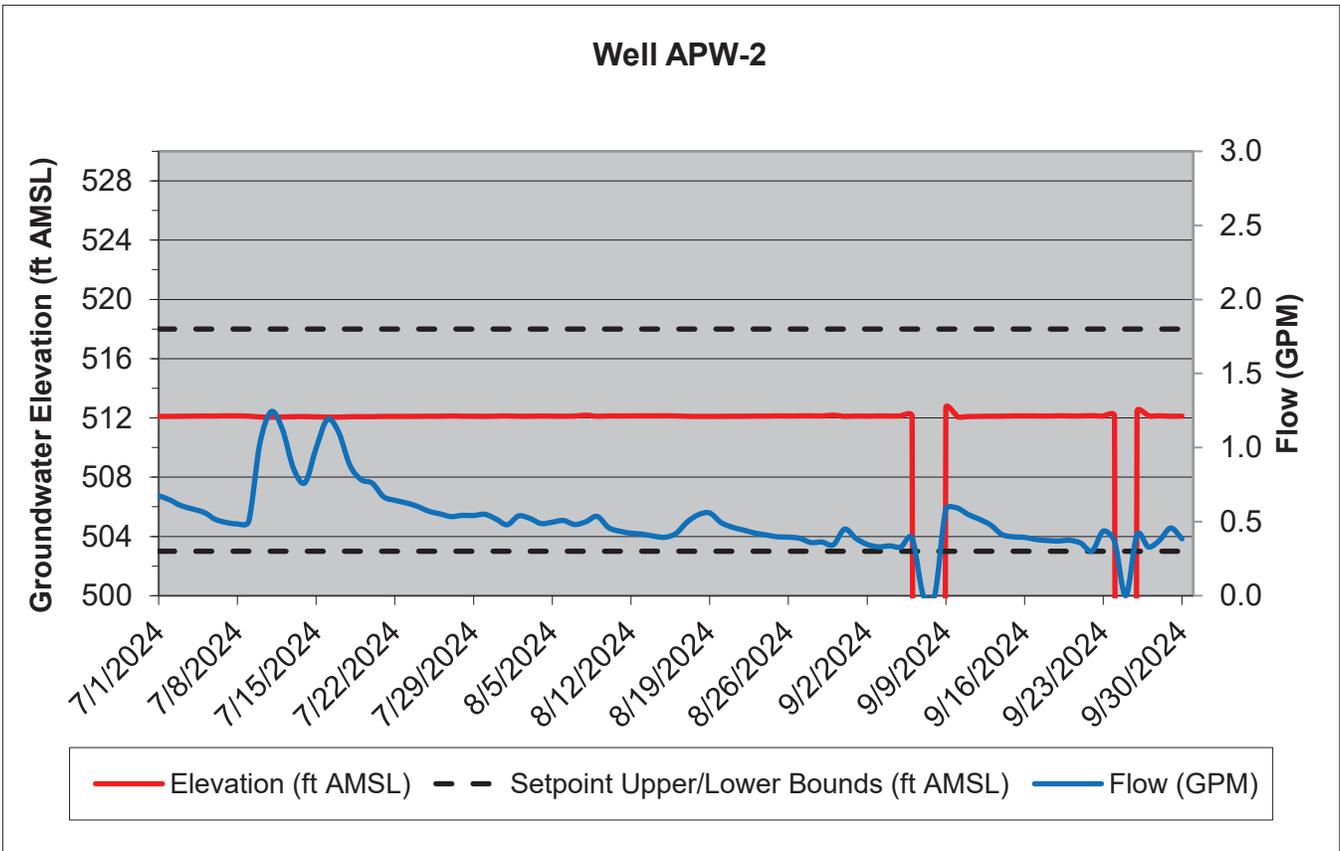
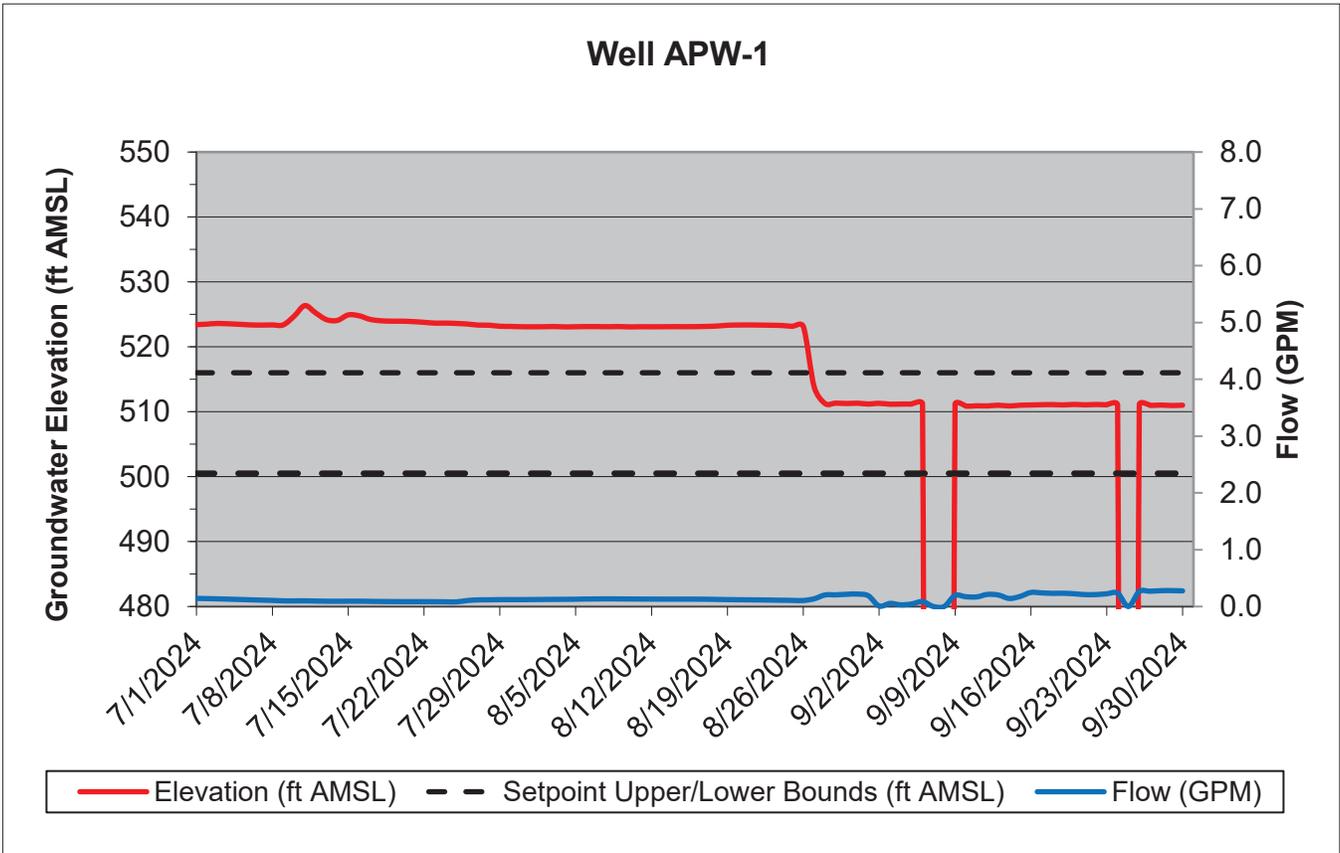
| <b>Parameters</b>                 | <b>Units</b> |       |
|-----------------------------------|--------------|-------|
| <b>Volatile Organic Compounds</b> |              |       |
| Vinyl chloride                    | µg/L         | 21.1  |
| <b>General Chemistry</b>          |              |       |
| Phosphorus                        | mg/L         | 0.256 |

**Notes:**

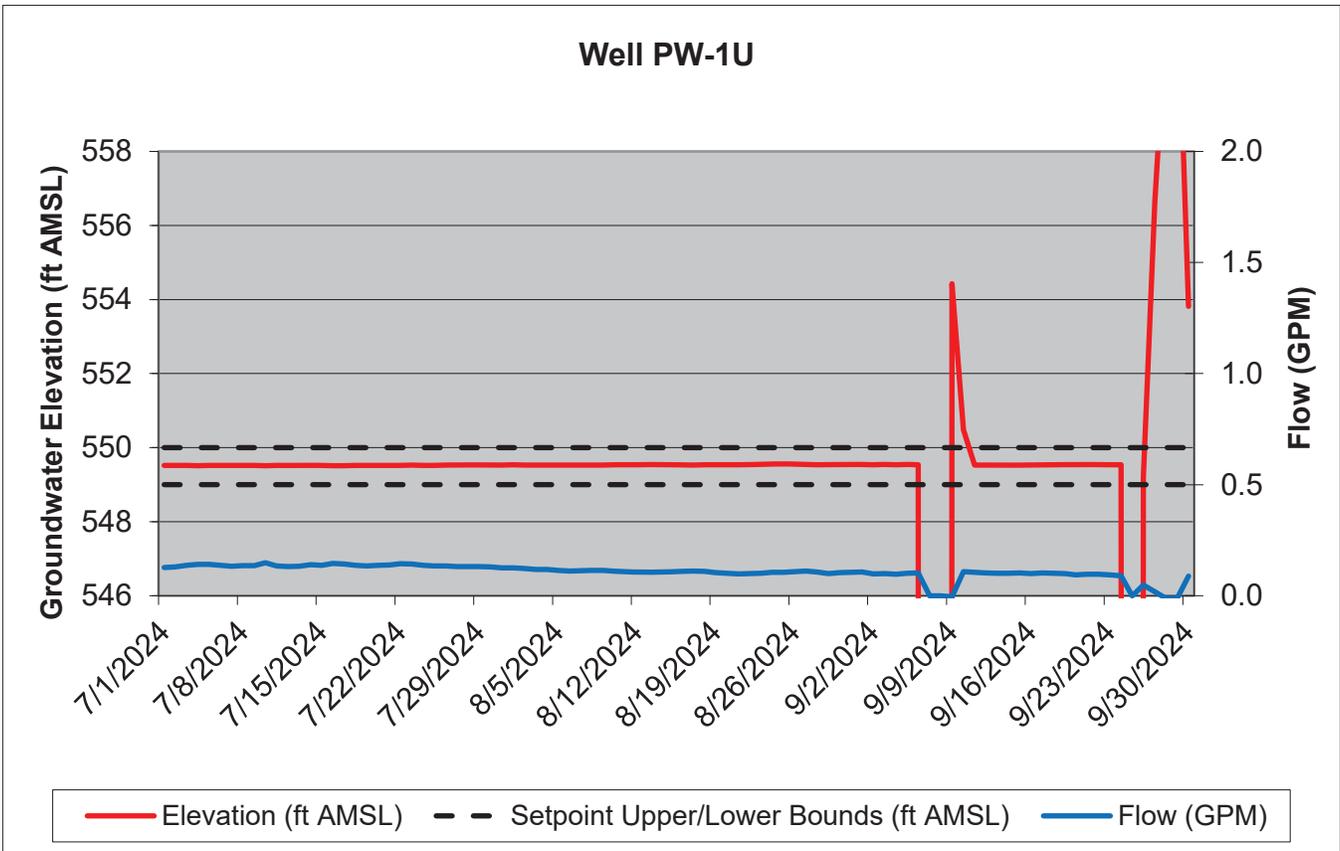
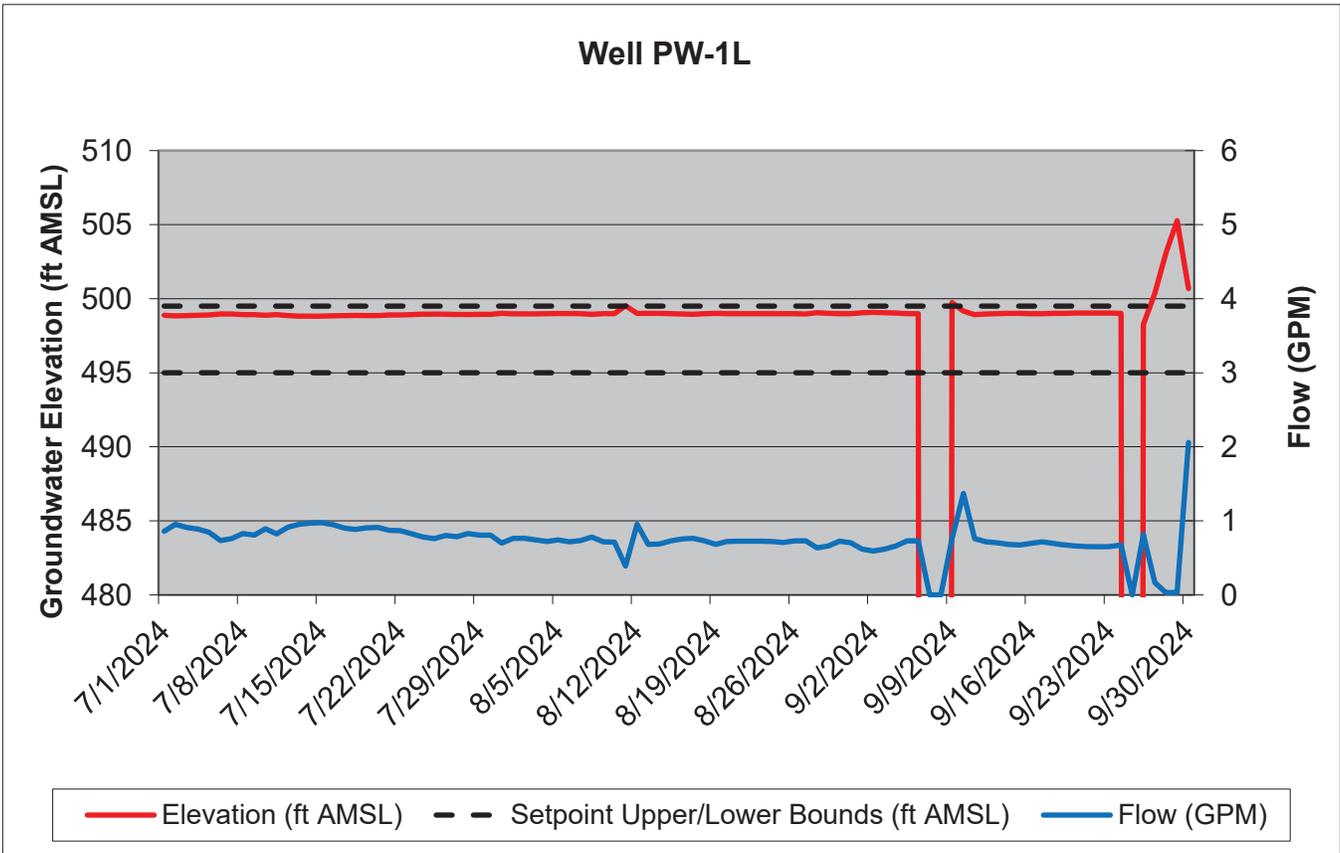
mg/L - Milligrams per liter

µg/L - Micrograms per liter

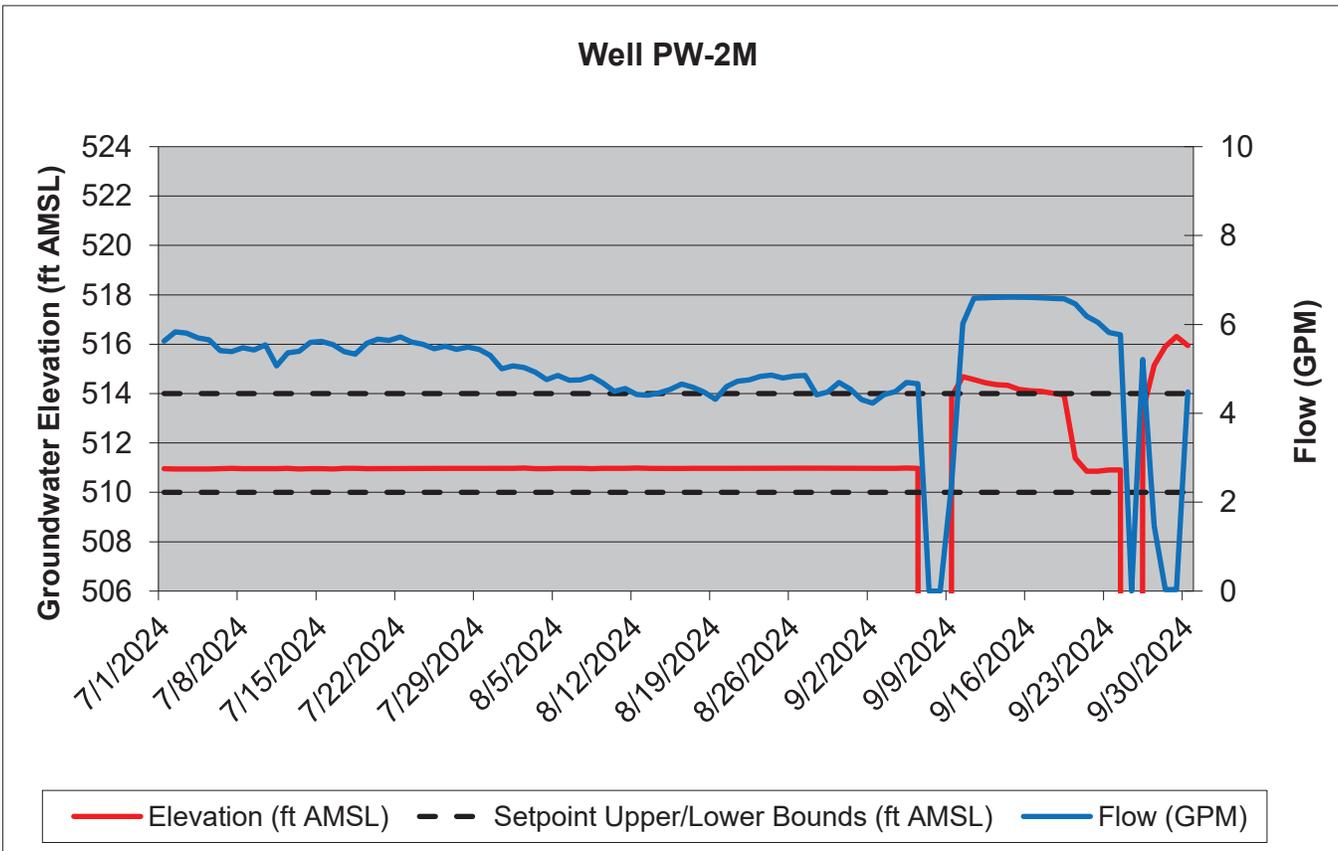
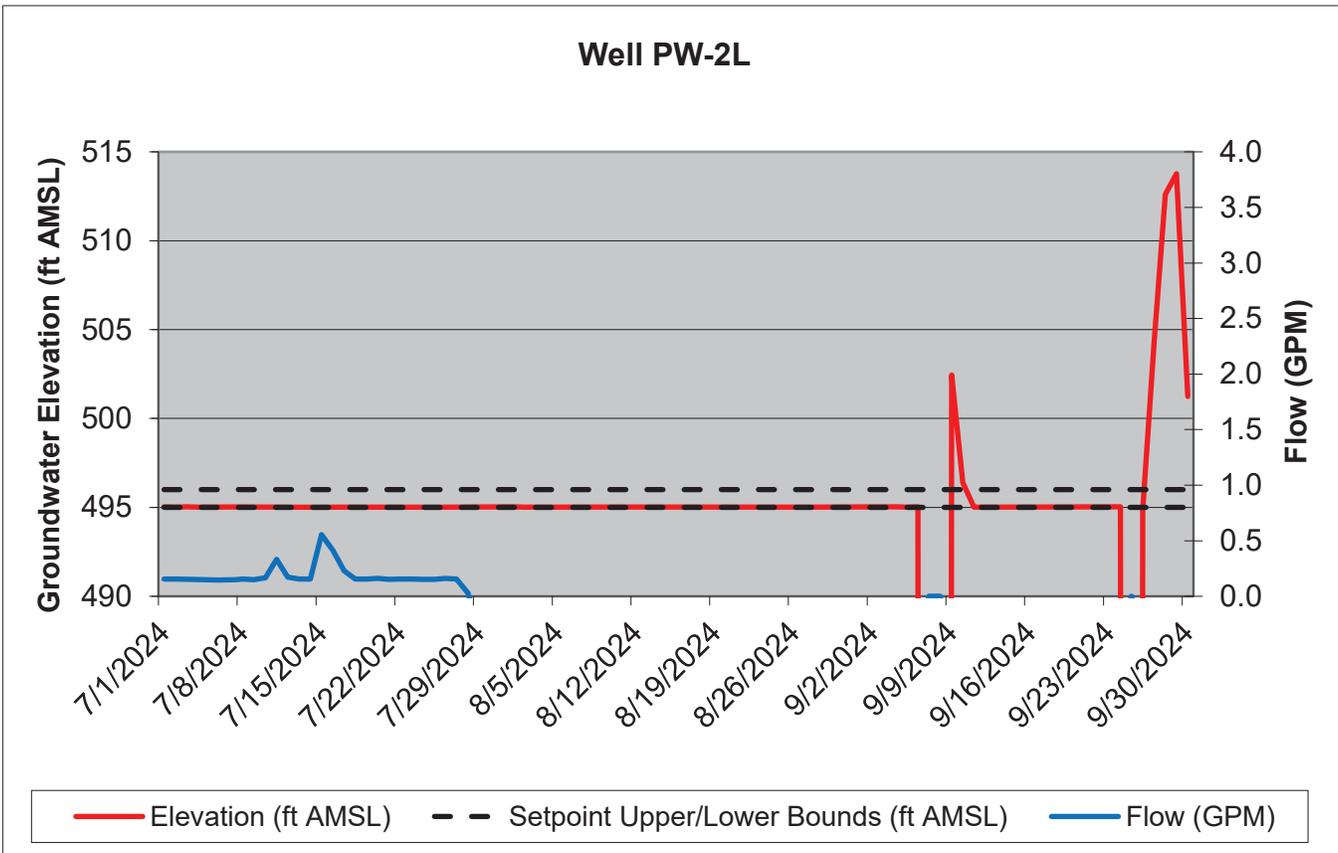
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



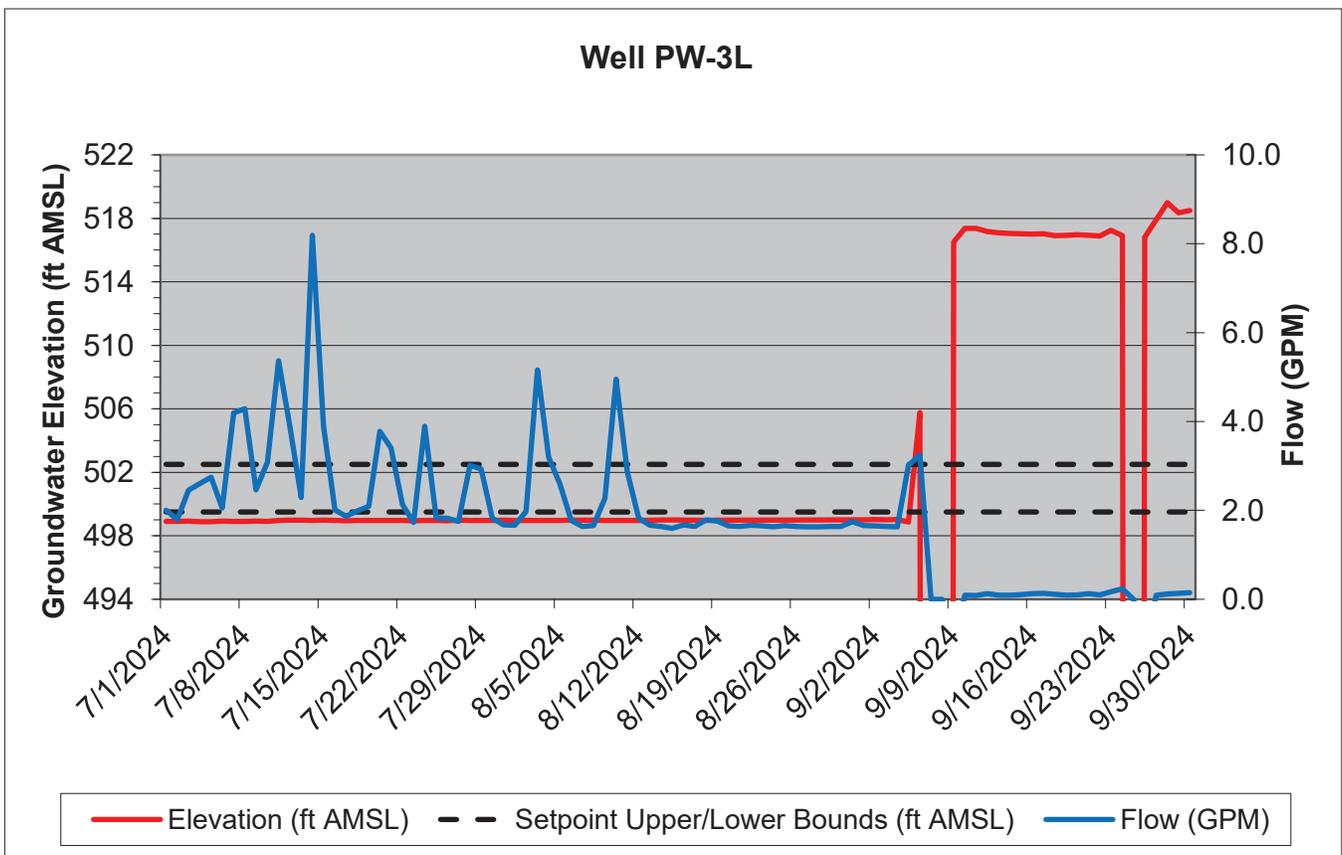
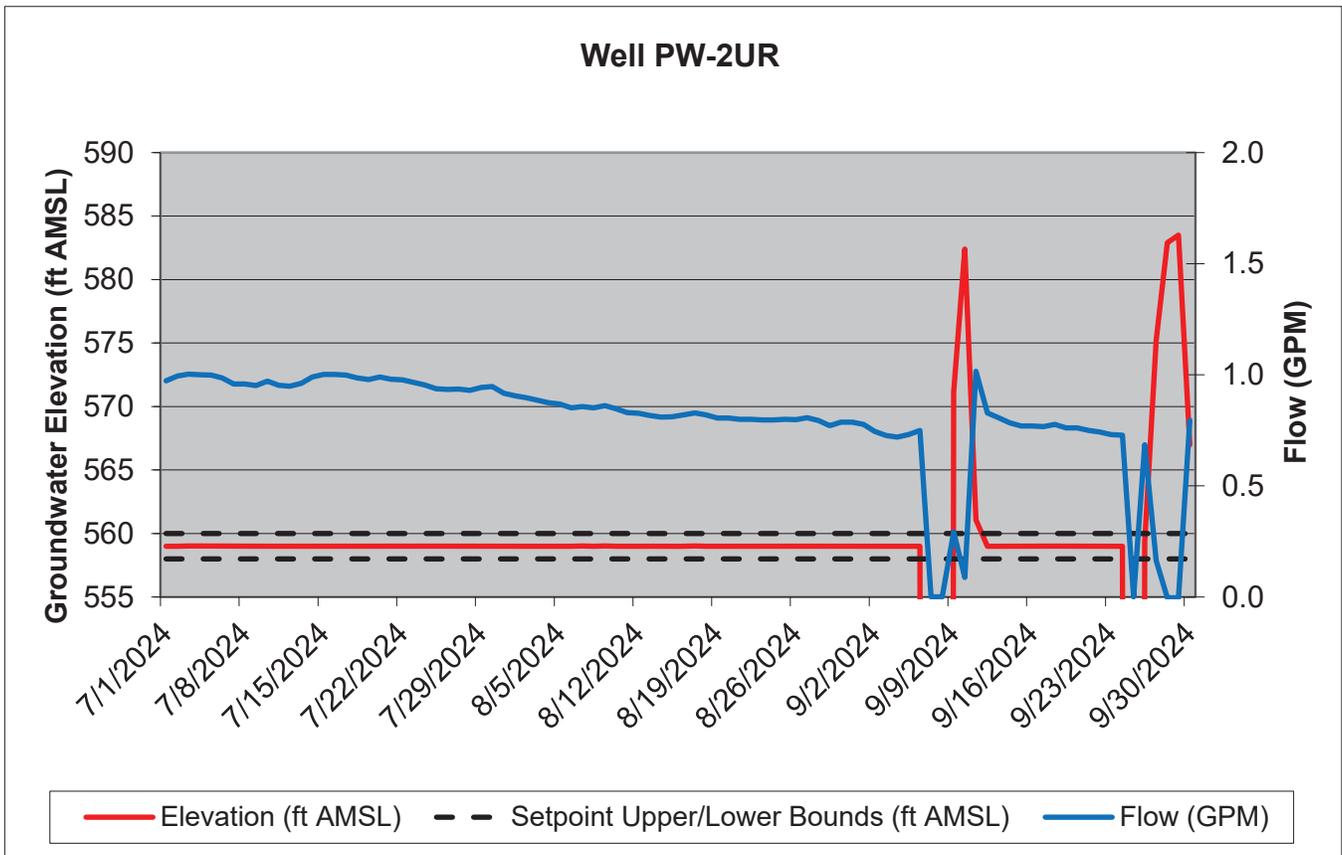
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



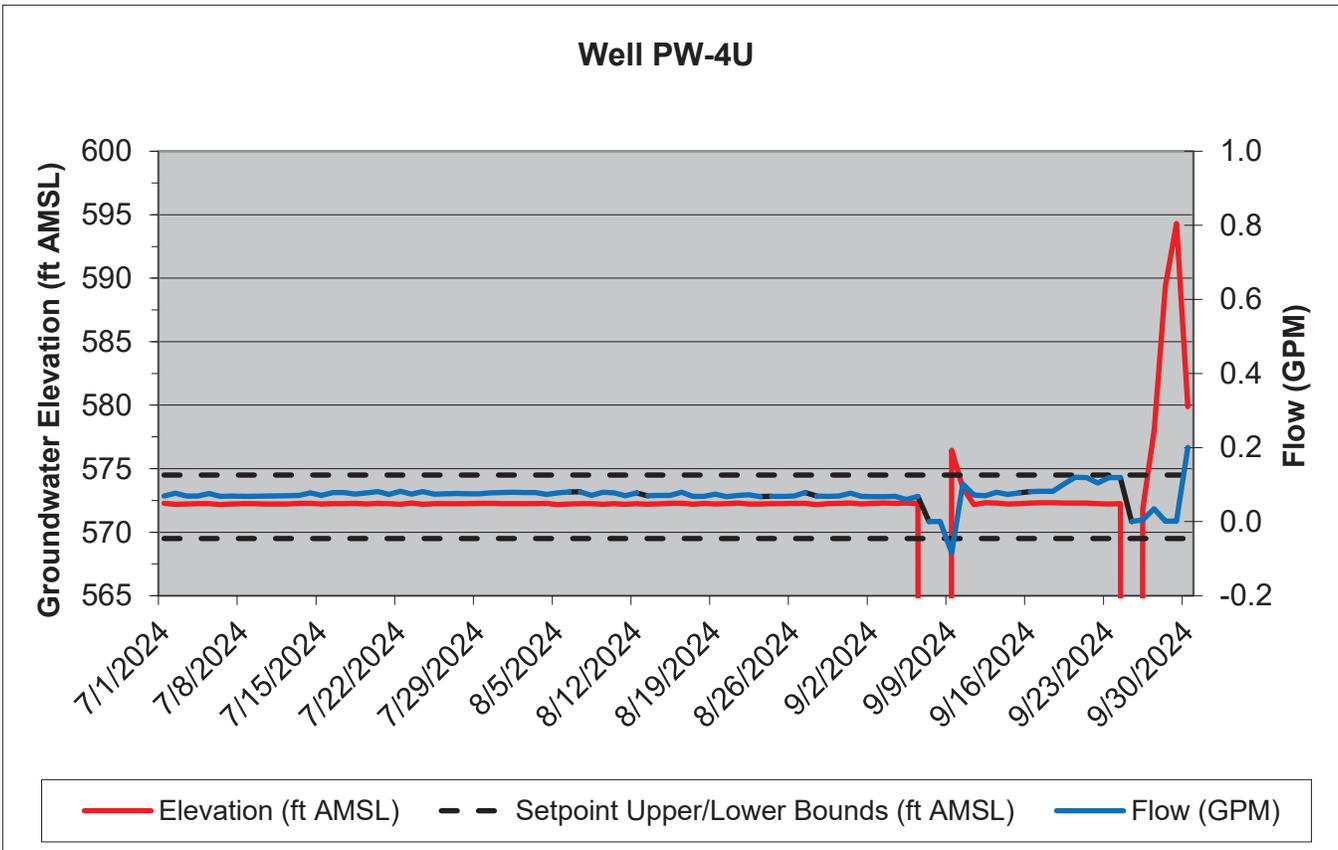
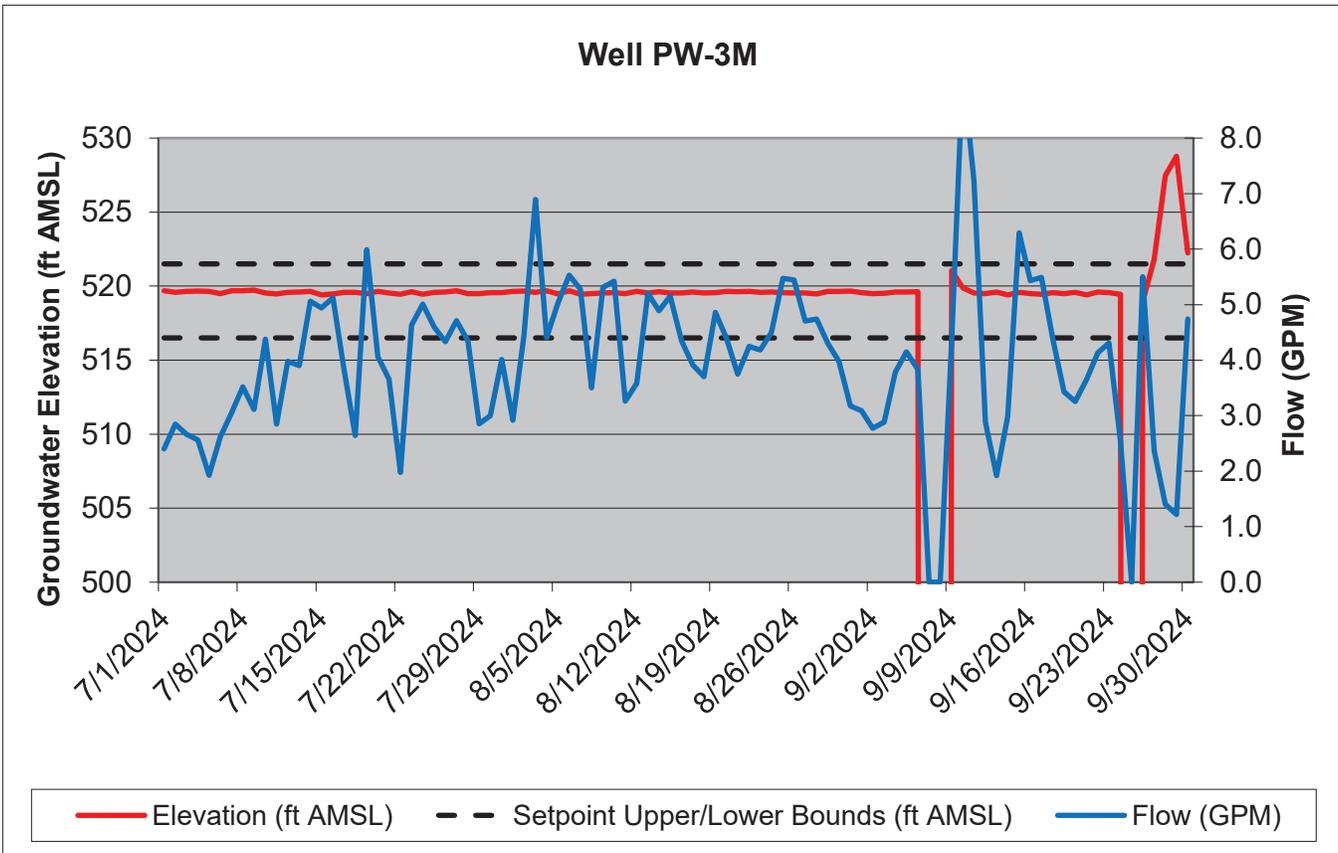
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



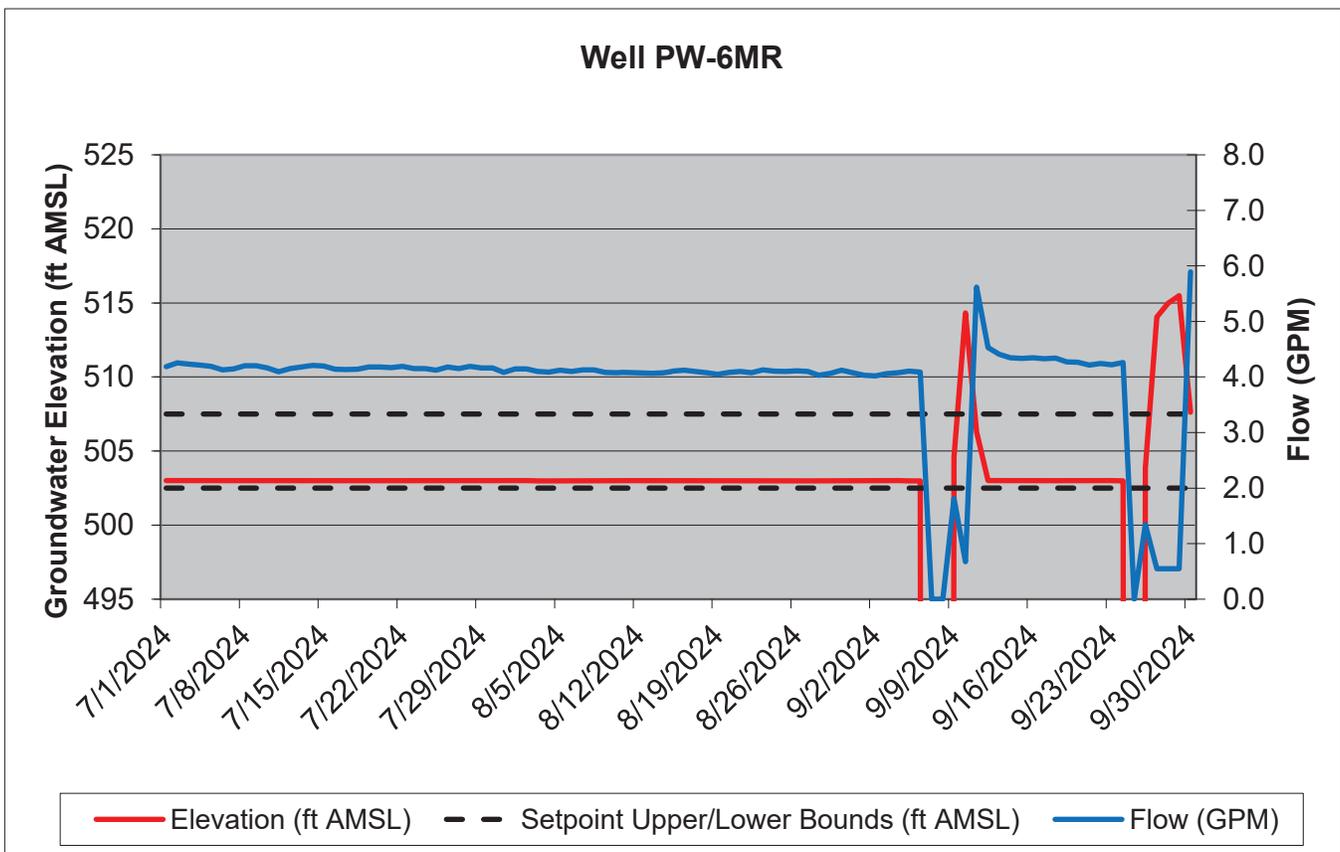
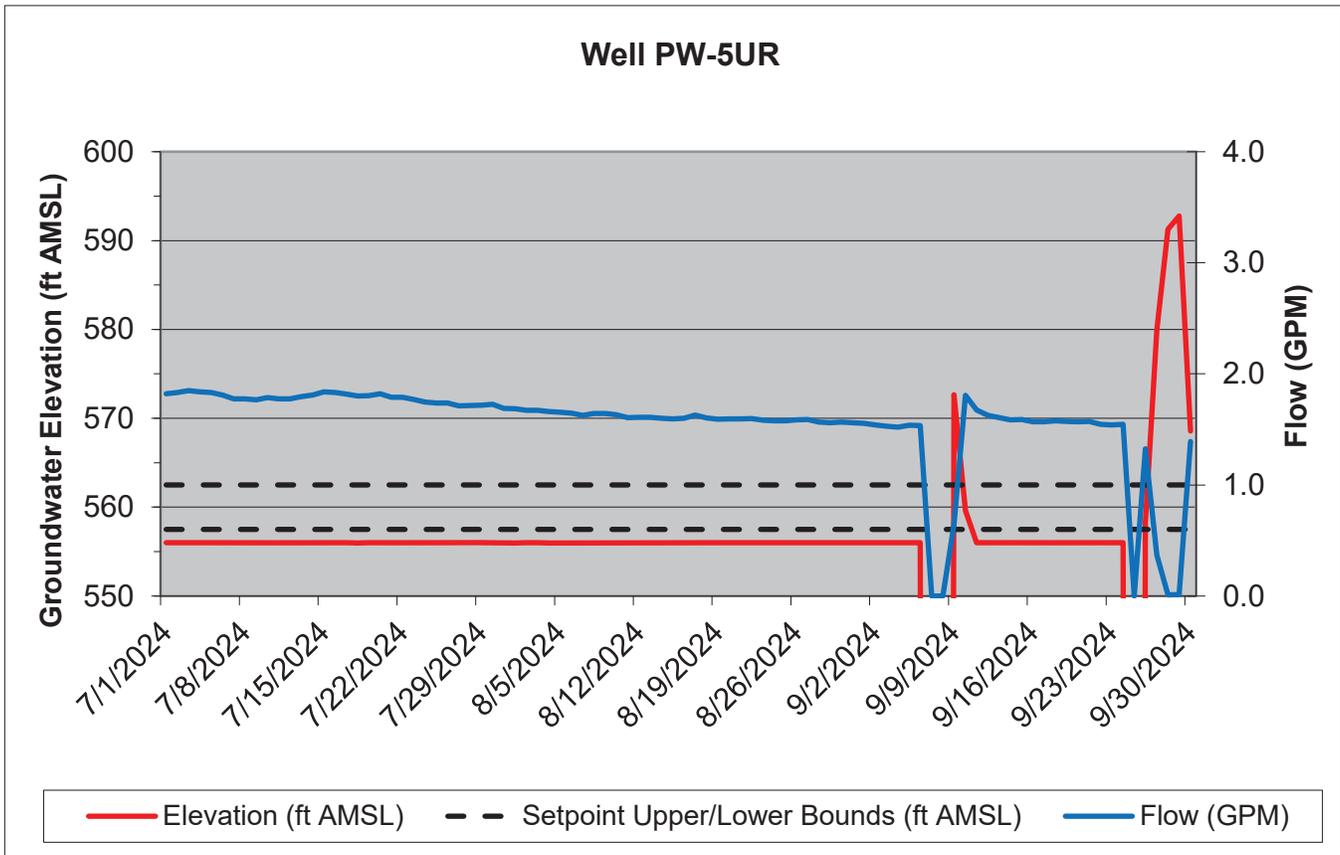
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



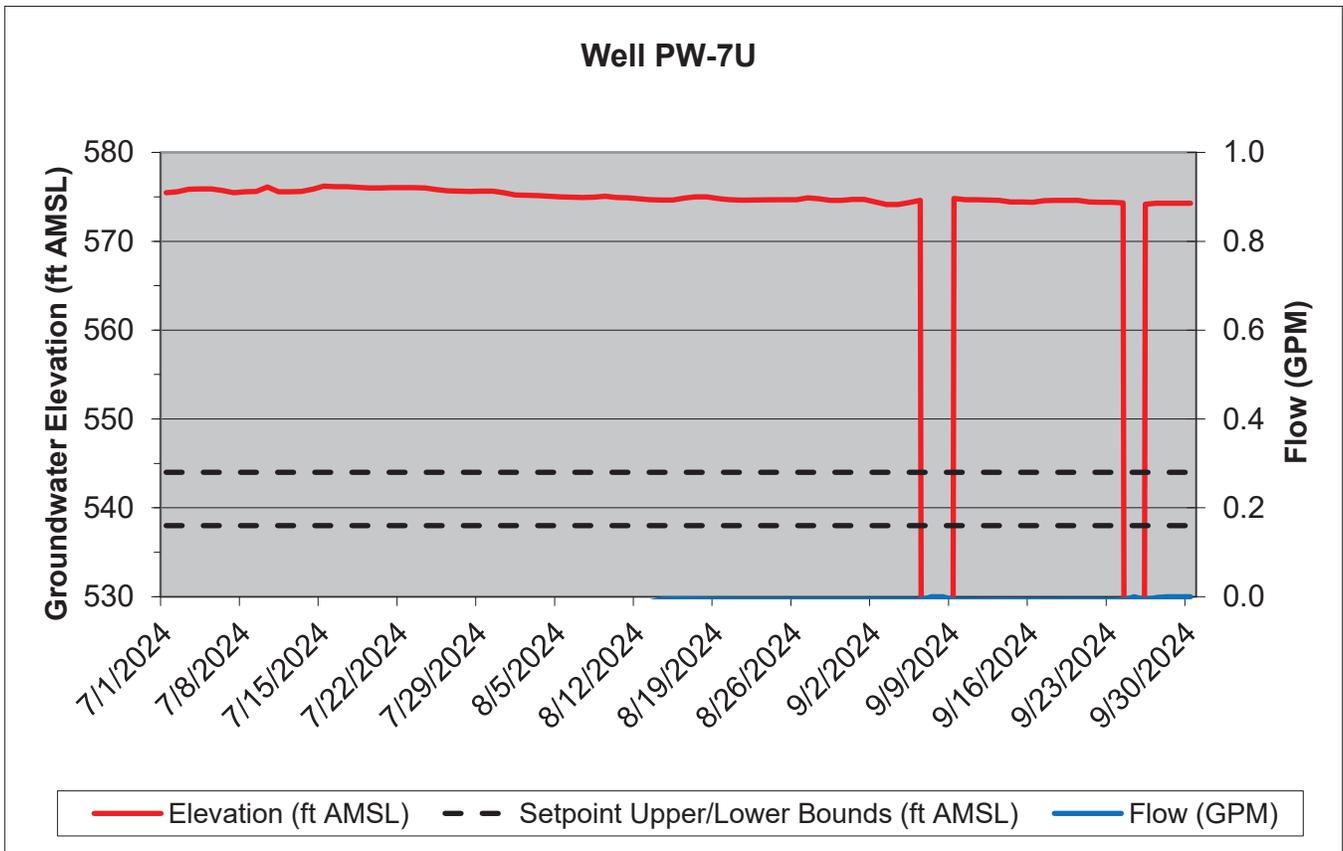
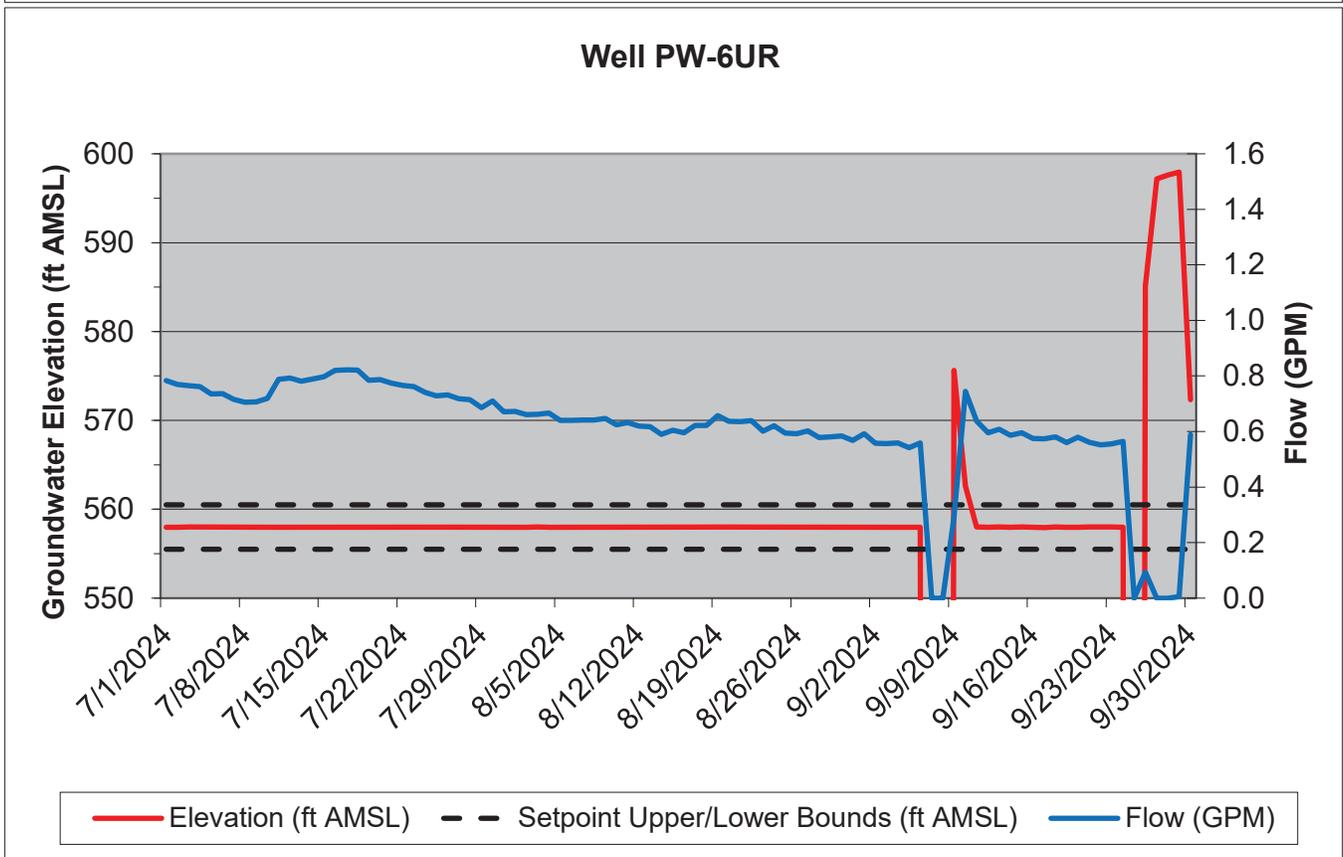
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



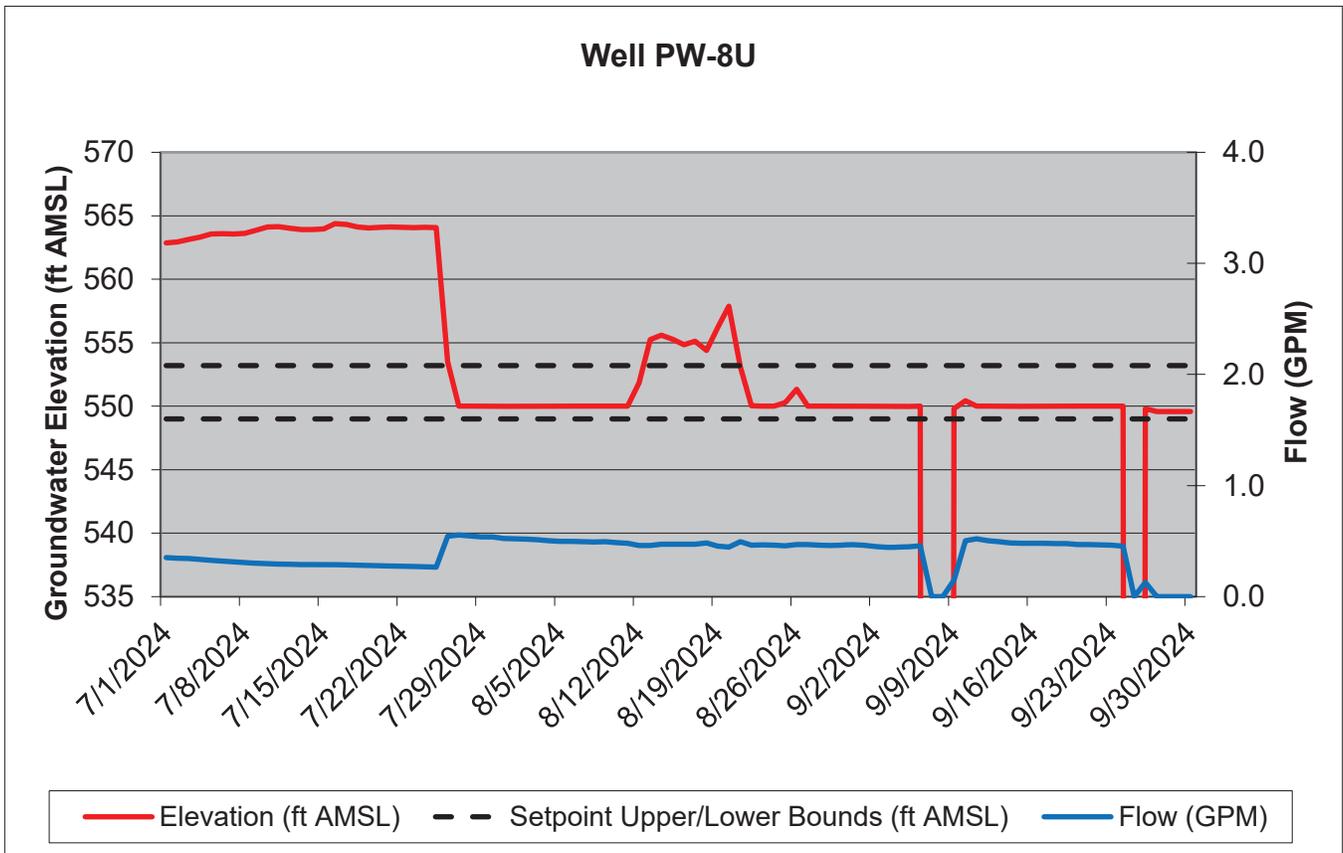
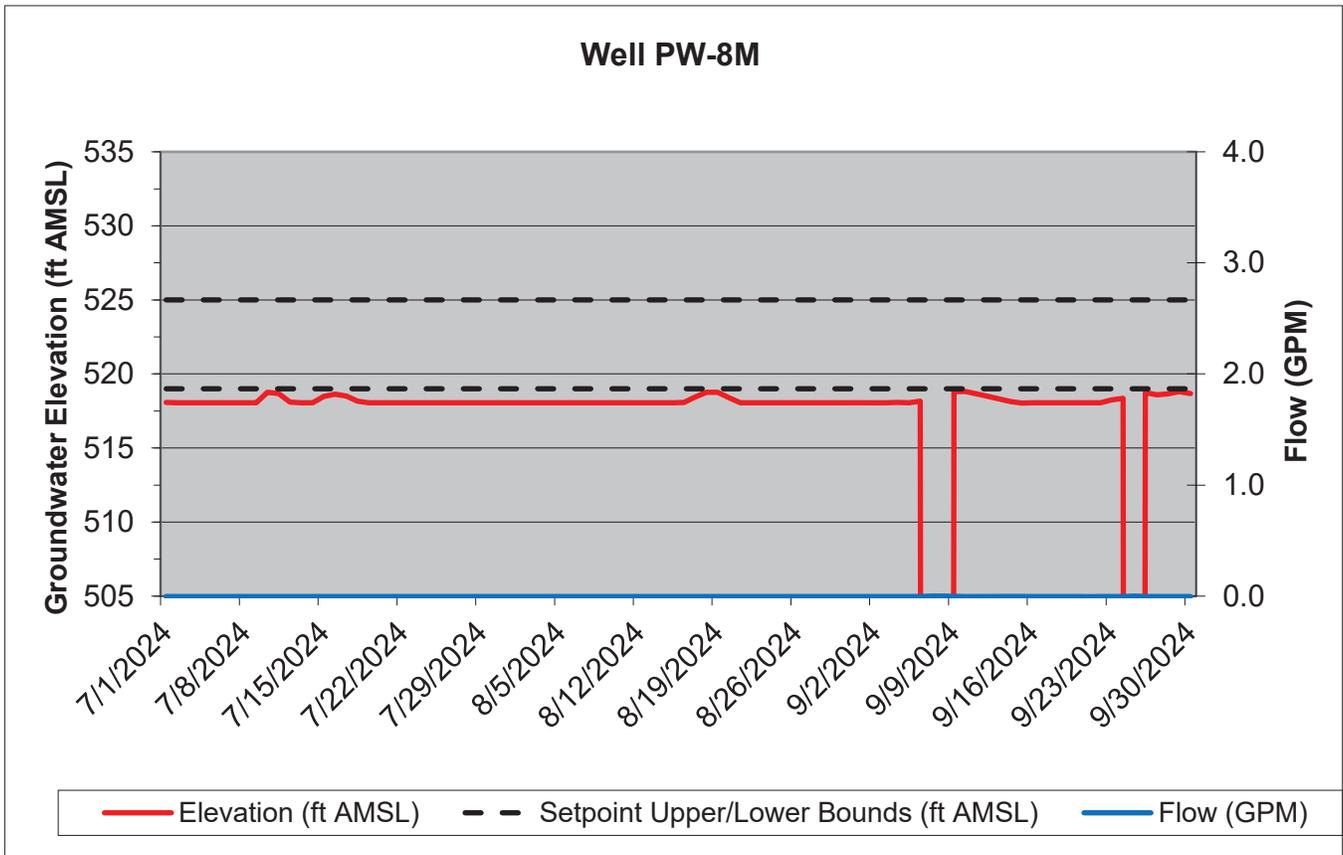
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



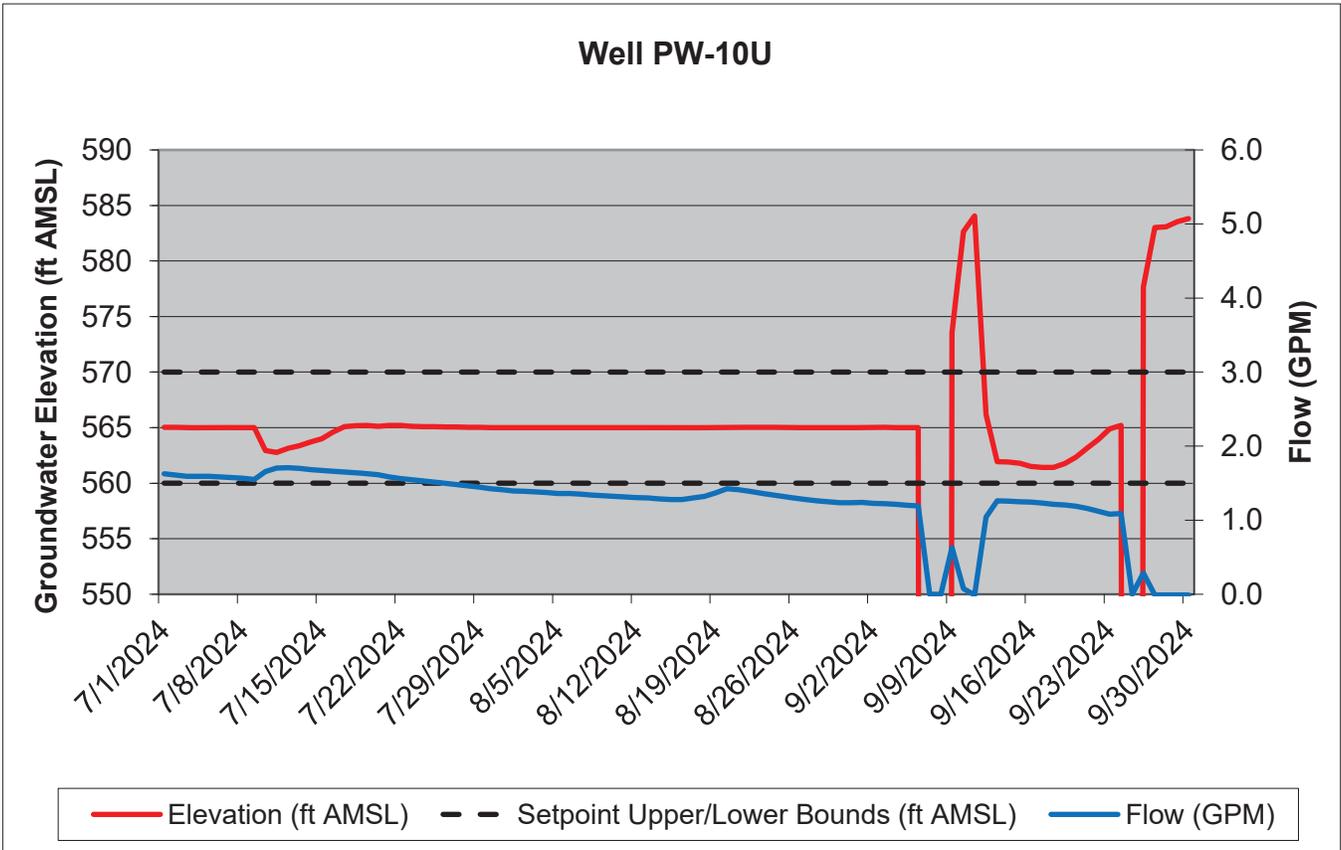
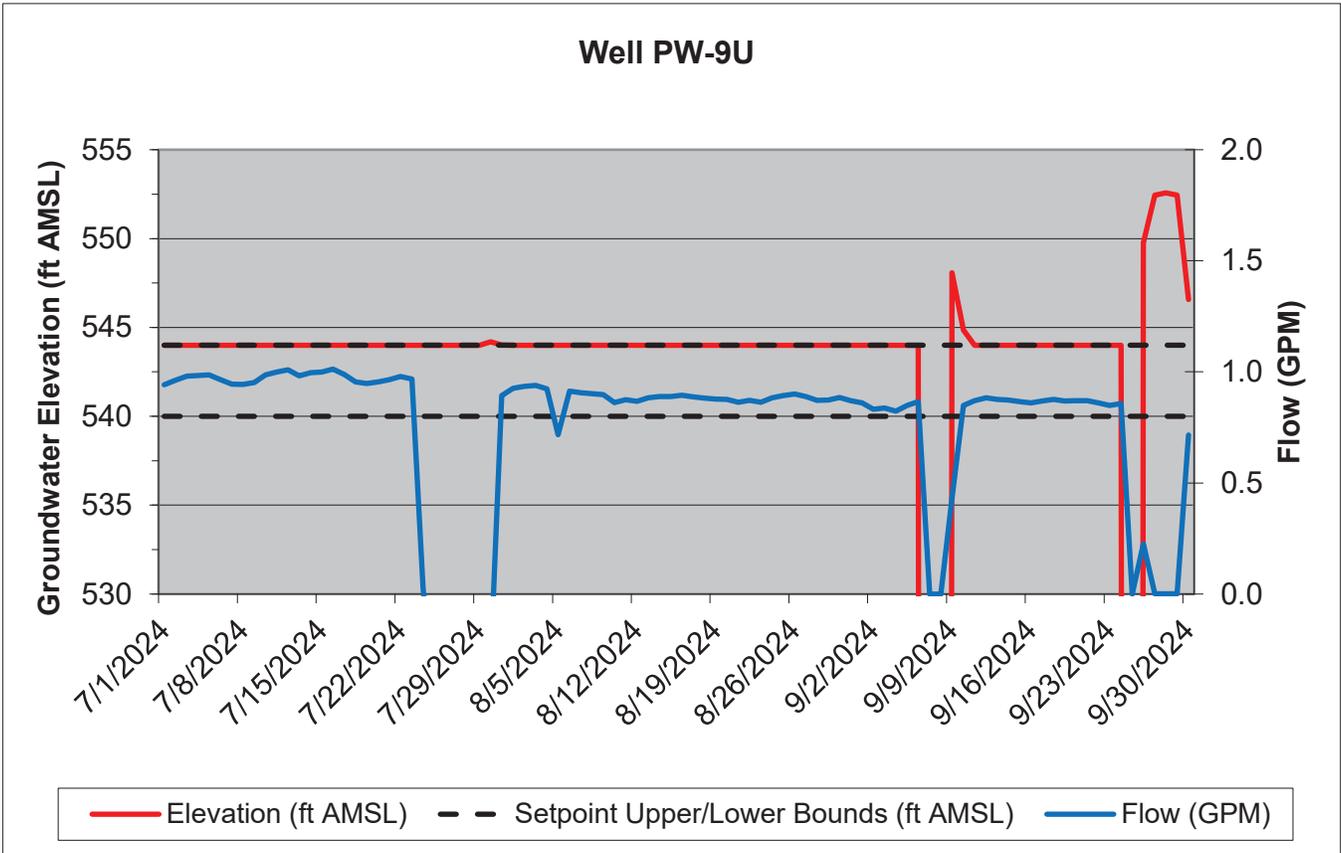
THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



THIRD QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK





# Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

---

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

---

---

7601 Old Channel Trail  
Montague, MI 49437

---

January 31, 2025

Reference No. 11230216

Ms. Maeve Wurtz  
USEPA Region II  
290 Broadway, 20th Floor  
New York, NY 10007-1866

Mr. Andrew Zwack  
NYSDEC  
700 Delaware Avenue  
Buffalo, NY 14209

Dear Ms. Wurtz and Mr. Zwack:

**Re: Quarterly Operations Report - Fourth Quarter 2024  
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, 2024 through December 31, 2024. A total of 3.1 million gallons of APL were collected, treated, and discharged in compliance with the Site's City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial User (SIU) Wastewater Discharge Permit #49. No waste was 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: Groundwater 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 groundwater elevations for the flow zone 9 piezometer PMW-1M-09 for the fourth quarter 2024 are presented on Figure 10. During the scheduled monthly download of the PMW-1M-09 transducer data in early December, it was discovered that the transducer had stopped working on November 27. As such, continuously recorded groundwater elevations are only available through November 27. However, groundwater elevations calculated using manual water level readings collected in early and late December, along with the available continuously recorded groundwater elevations, were less than 526 feet above mean sea level (AMSL) through the entire quarter, indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated throughout the entire quarter. The transducer will be replaced in the first quarter of 2025.

The pumping wells were operational and functioning as designed during the fourth quarter 2024, with the exception of the downtime periods discussed below. 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 water levels in PW-7U and PW-3L exceeded setpoint range from October 1 through the end of the quarter while awaiting the delivery of a new pump and motor.

The water level in PW-8U exceeded setpoint range from November 5 through the end of the quarter while awaiting the delivery of a new pump and motor.

The water level in PW-5UR exceeded setpoint range from December 22 through the end of the quarter while awaiting the delivery of a new pump and motor.

The following minor operational and setpoint issues were investigated and resolved during the fourth quarter of 2024:

- The water level in PW-2M exceeded setpoint range from October 1 through October 16 while the well was pumping down following a site-wide power outage that occurred on September 25. The water level returned to within setpoint range on October 17.
- The water level in APW-1 exceeded setpoint range on December 2 and December 9 due to a variable frequency drive fault. The fault was reset and the water level returned to within setpoint range on December 3 and December 10, respectively.
- The water level in APW-2 exceeded setpoint range from December 29 through the end of the quarter due to snowmelt.
- The water level in PW-9U exceeded setpoint range on December 22 due to heavy rain and snowmelt. The water level returned to within setpoint range on December 23.

If you have any questions, please feel free to contact me at (231) 670-6809 or by email at [joseph\\_branch@oxy.com](mailto:joseph_branch@oxy.com).

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.



Joe Branch  
Project Manager  
231-670-6809 Cell

JB/14  
Encl.

January 31, 2025

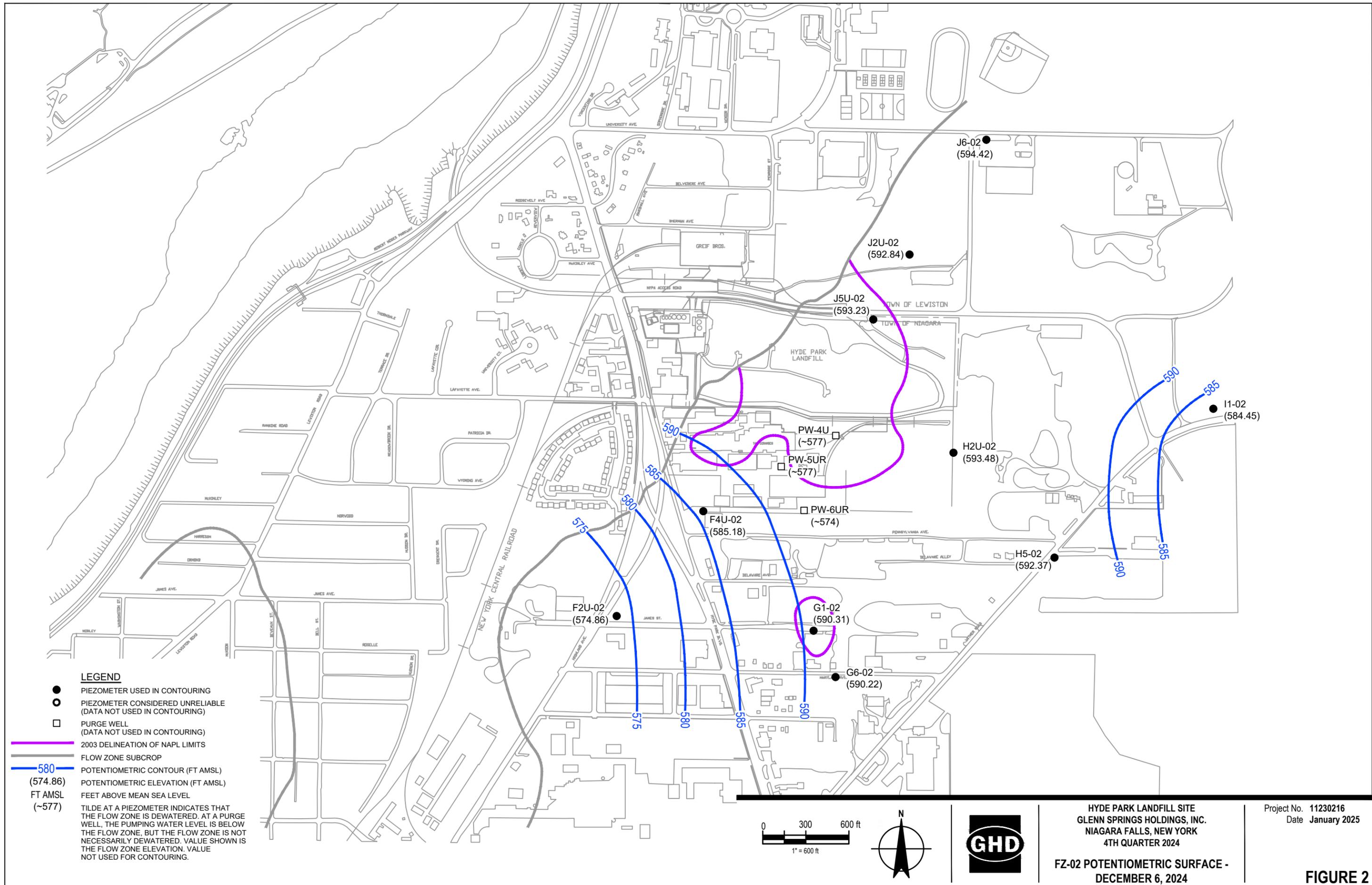
Reference No. 11230216

- 3 -

cc: B. McPherson, NYSDEC  
J. Robinson, NYSDOH  
T. Bathory, GSH

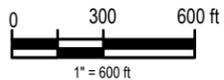
J. Pentilchuk, GHD  
M. Popek, GHD  
D. Hoyt, Geosyntec





**LEGEND**

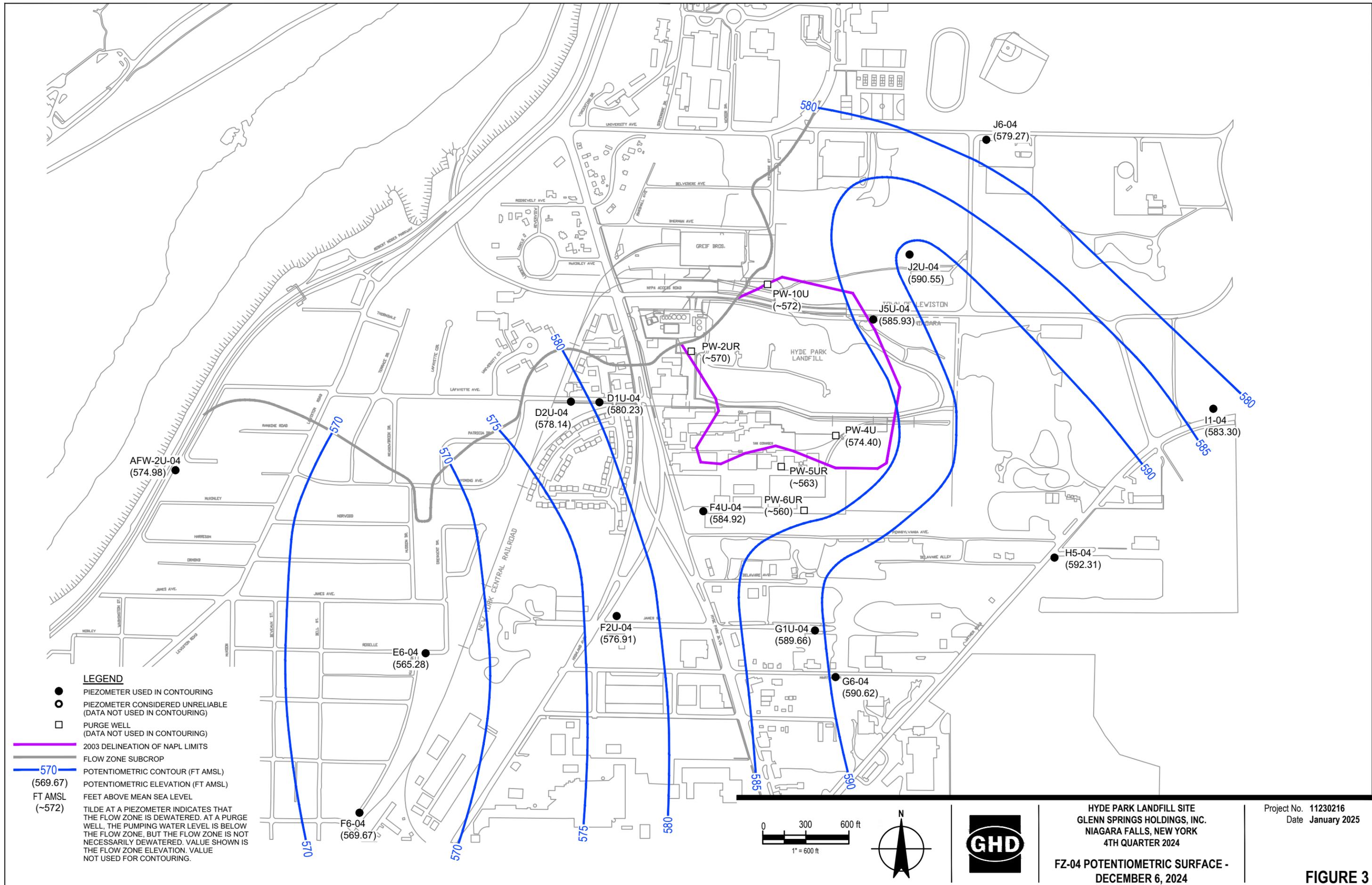
- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- 580 POTENTIOMETRIC CONTOUR (FT AMSL)
- (574.86) POTENTIOMETRIC ELEVATION (FT AMSL)
- FT AMSL FEET ABOVE MEAN SEA LEVEL
- (~577) TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.



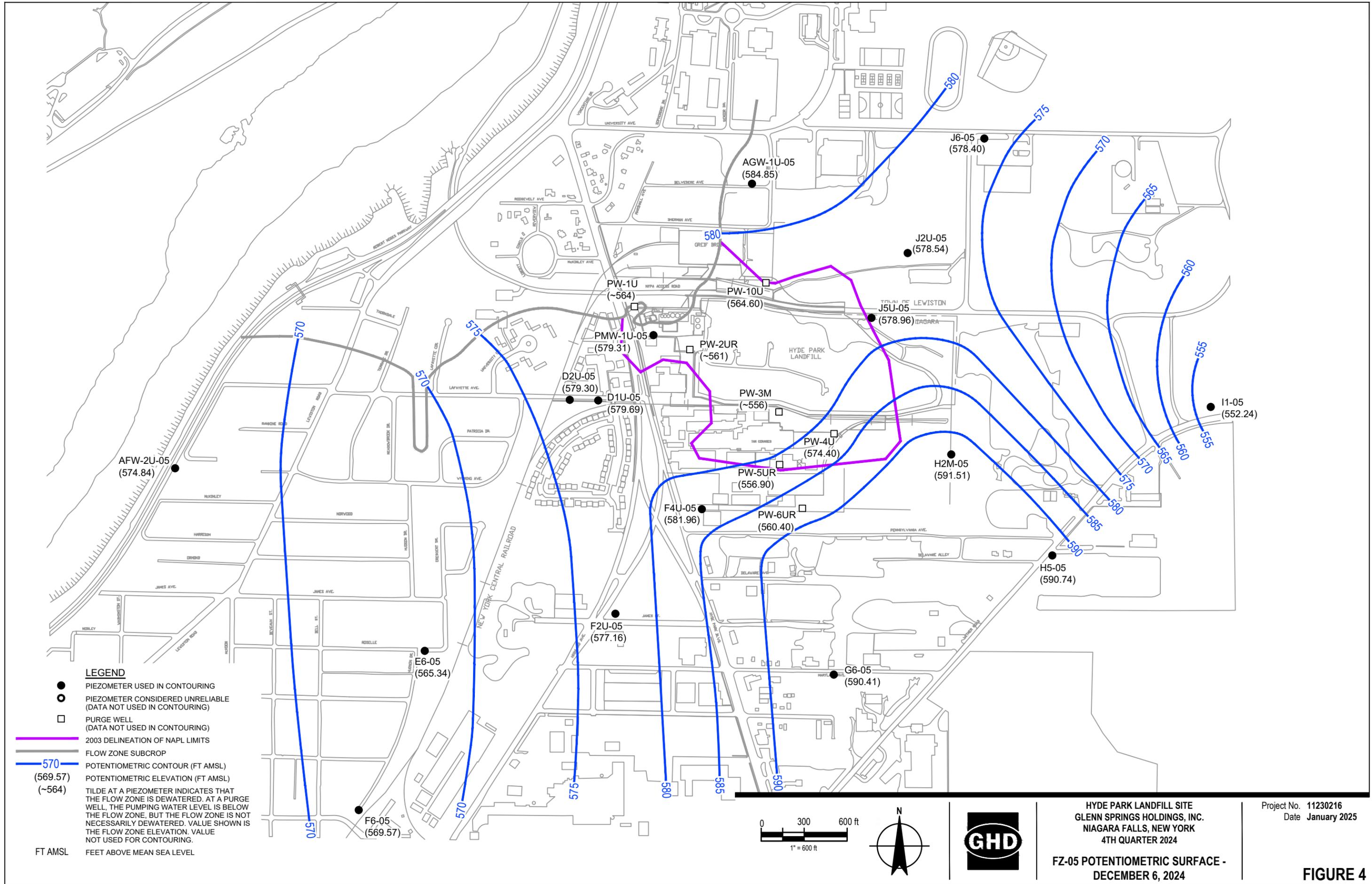
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 4TH QUARTER 2024  
 FZ-02 POTENTIOMETRIC SURFACE -  
 DECEMBER 6, 2024

Project No. 11230216  
 Date January 2025

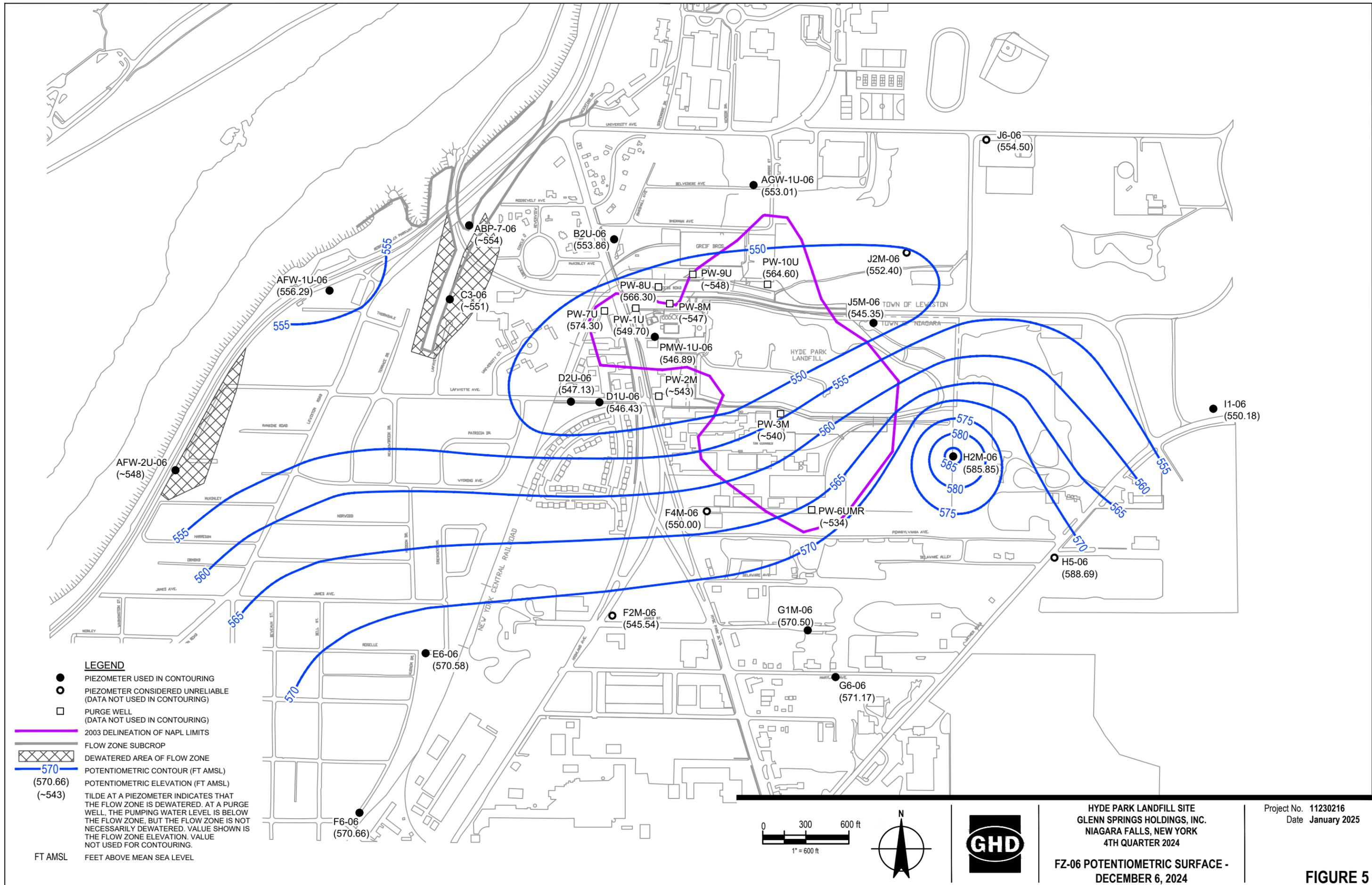
**FIGURE 2**



**FIGURE 3**

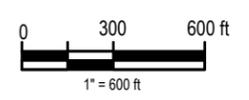


**FIGURE 4**



**LEGEND**

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- ▨ FLOW ZONE SUBCROP
- ▨ DEWATERED AREA OF FLOW ZONE
- 570— POTENTIOMETRIC CONTOUR (FT AMSL)
- (570.66) POTENTIOMETRIC ELEVATION (FT AMSL)
- (~543) TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.
- FT AMSL FEET ABOVE MEAN SEA LEVEL

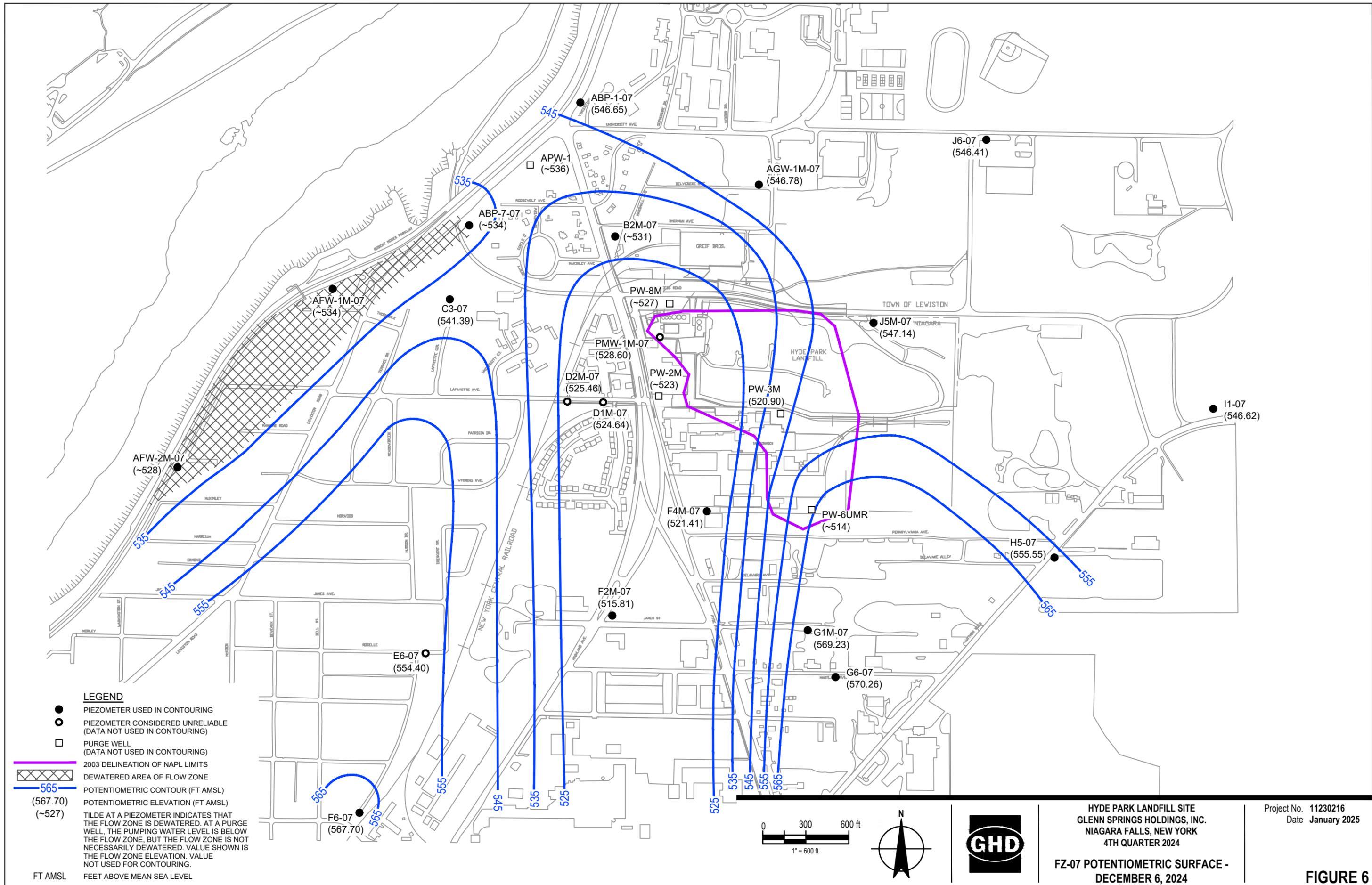


HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 4TH QUARTER 2024  
**FZ-06 POTENTIOMETRIC SURFACE -  
 DECEMBER 6, 2024**

Project No. 11230216  
 Date January 2025

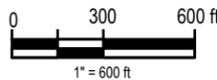
**FIGURE 5**

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\56411230216\Digital\_Design\ACAD\Figures\LTR-Wurtz-Zwack006\11230216-GHD-00-00-LTR-EN-D105\_WA-Wurtz-Zwack006.dwg  
 Plot Date: 17 January 2025 3:43 PM



**LEGEND**

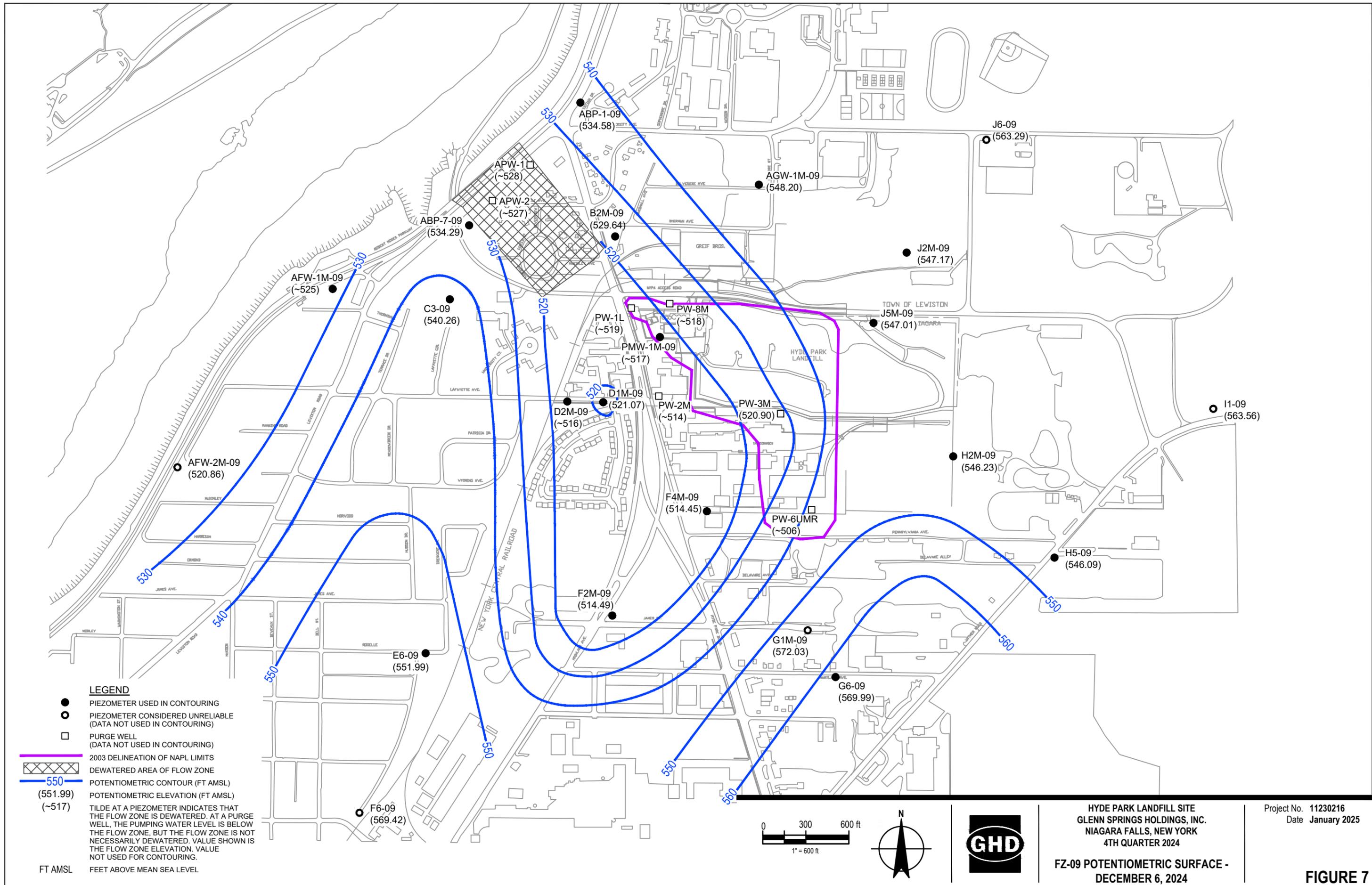
- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- ▨ 2003 DELINEATION OF NAPL LIMITS
- ▨ DEWATERED AREA OF FLOW ZONE
- 565 POTENTIOMETRIC CONTOUR (FT AMSL)
- (567.70) POTENTIOMETRIC ELEVATION (FT AMSL)
- (~527) TILDE AT A PIEZOMETER INDICATES THAT THE FLOW ZONE IS DEWATERED. AT A PURGE WELL, THE PUMPING WATER LEVEL IS BELOW THE FLOW ZONE, BUT THE FLOW ZONE IS NOT NECESSARILY DEWATERED. VALUE SHOWN IS THE FLOW ZONE ELEVATION. VALUE NOT USED FOR CONTOURING.
- FT AMSL FEET ABOVE MEAN SEA LEVEL

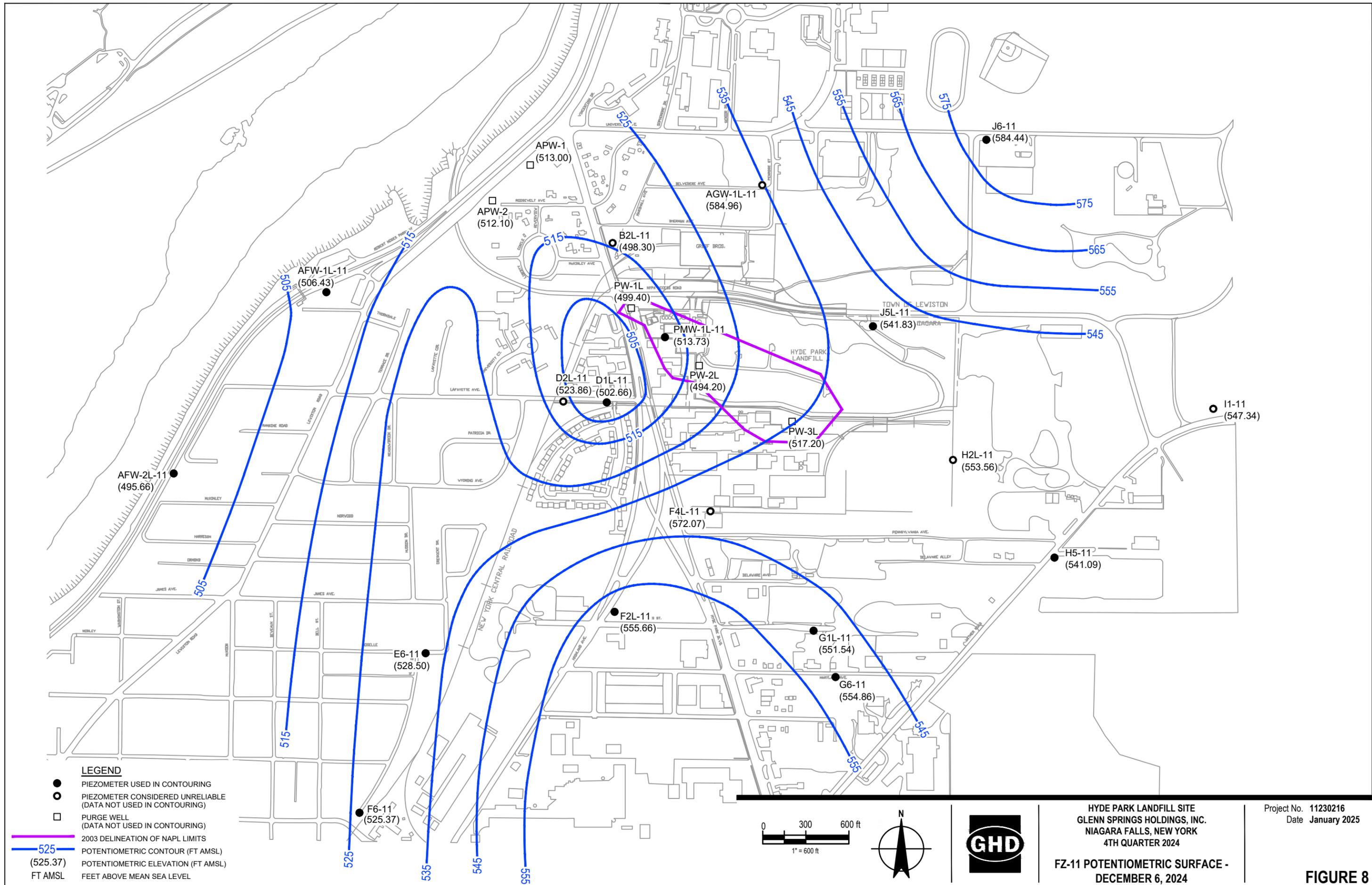


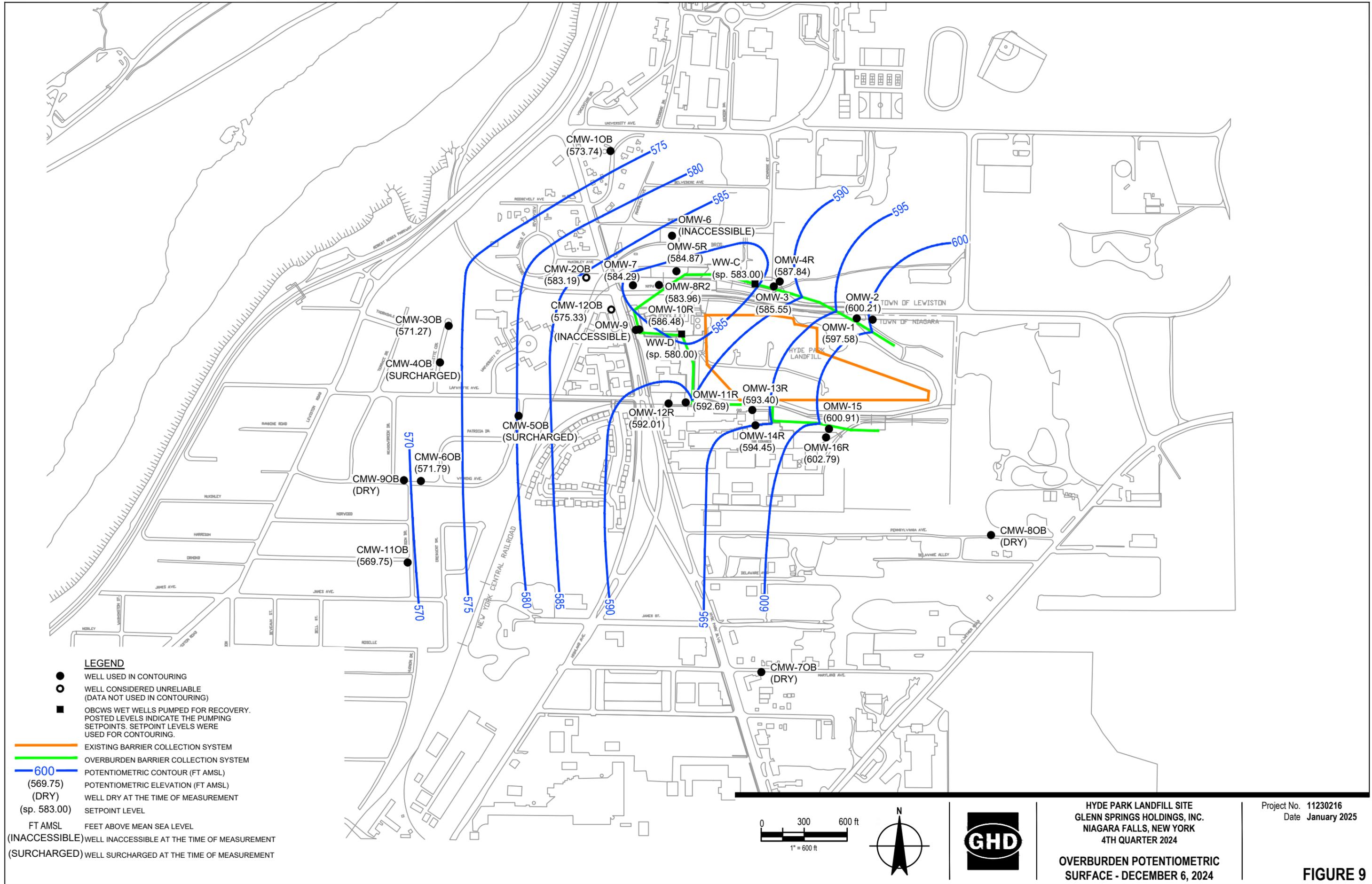
HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 NIAGARA FALLS, NEW YORK  
 4TH QUARTER 2024  
**FZ-07 POTENTIOMETRIC SURFACE -  
 DECEMBER 6, 2024**

Project No. 11230216  
 Date January 2025

**FIGURE 6**







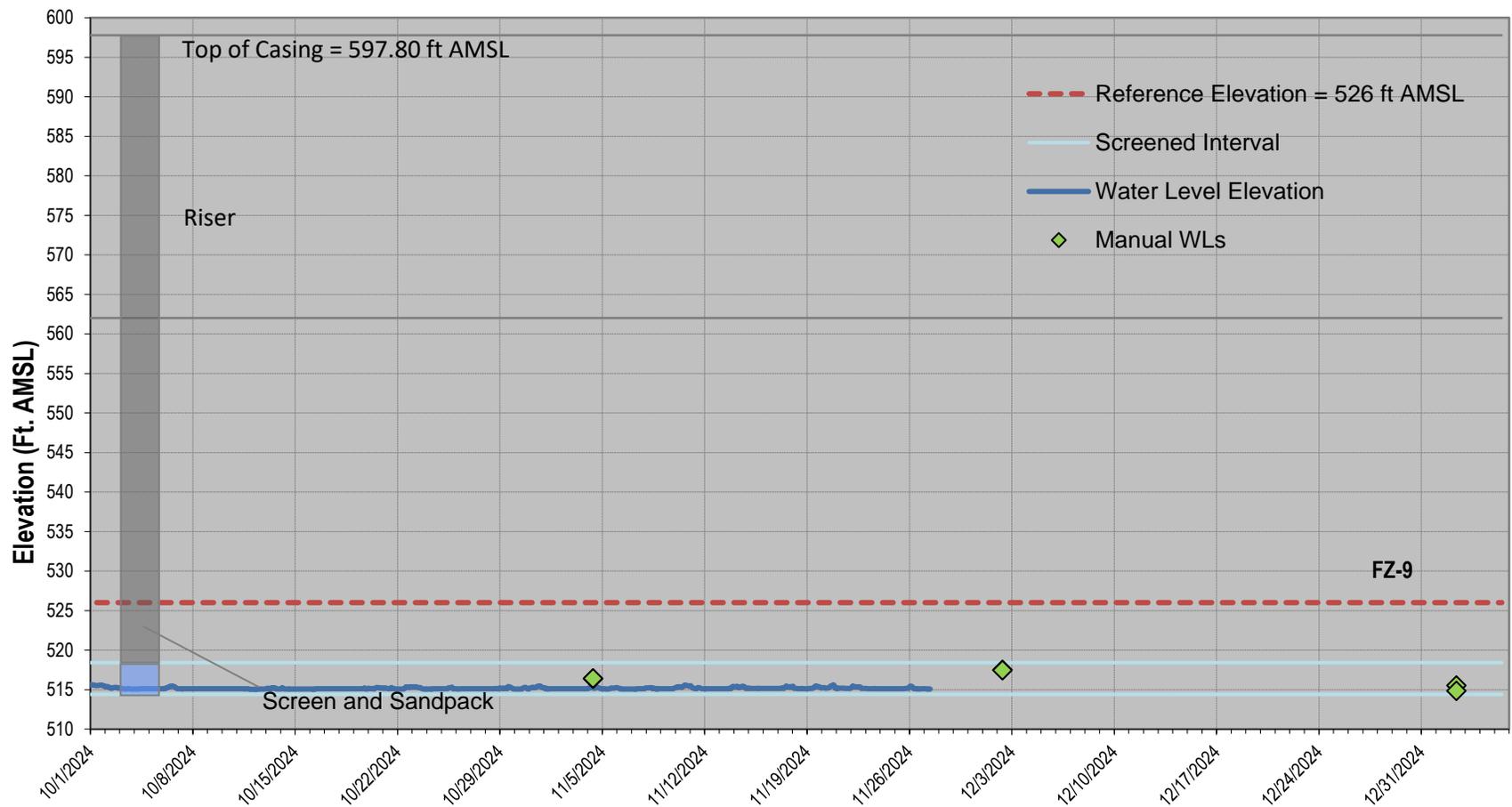


figure 10

PMW-1M-09 4th Quarter 2024 - Hourly Water Level Elevation  
 4th Quarter Report  
 Hyde Park Landfill Site  
 Glenn Springs Holdings, Inc.

**Groundwater Elevation Summary  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>       | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|-------------------|--|--------------------------------|--|
| <b>Overburden</b> |  |                                |  |
| CMW-2OB           | 590.79                                   | 7.60                           | 583.19                                     |
| CMW-3OB           | 582.13                                   | 10.86                          | 571.27                                     |
| CMW-4OB           | 574.28                                   | Surcharged                     | -  |
| CMW-5OB           | 583.43                                   | Surcharged                     | -  |
| CMW-6OB           | 571.89                                   | 0.10                           | 571.79                                     |
| CMW-7OB           | 611.00                                   | Dry                            | -  |
| CMW-8OB           | 616.11                                   | Dry                            | -  |
| CMW-9OB           | 571.76                                   | Dry                            | -  |
| CMW-1OB           | 576.80                                   | 3.06                           | 573.74                                     |
| CMW-11OB          | 572.85                                   | 3.10                           | 569.75                                     |
| CMW-12OB          | 594.74                                   | 19.41                          | 575.33                                     |
| MH20              | 605.87                                   | 4.72                           | 601.15                                     |
| MH21              | 599.77                                   | 6.14                           | 593.63                                     |
| MH22              | 593.37                                   | Dry                            | -  |
| MH23              | 587.05                                   | Dry                            | -  |
| MH24              | 582.57                                   | 8.42                           | 574.15                                     |
| MH25              | 583.82                                   | 8.05                           | 575.77                                     |
| MH26              | 584.48                                   | 8.32                           | 576.16                                     |
| MH27              | 586.12                                   | 10.64                          | 575.48                                     |
| MH28              | 585.23                                   | 16.40                          | 568.83                                     |
| MH29              | 604.58                                   | 14.95                          | 589.63                                     |
| MH30              | 599.49                                   | 10.12                          | 589.37                                     |
| MH31              | 590.10                                   | 11.67                          | 578.43                                     |
| MH32              | 592.01                                   | 9.65                           | 582.36                                     |
| MH33              | 592.51                                   | 8.80                           | 583.71                                     |
| MH34              | 598.34                                   | 7.20                           | 591.14                                     |
| MH35              | 605.69                                   | 7.46                           | 598.23                                     |
| MH35A             | 605.69                                   | 6.59                           | 599.10                                     |
| OMW-1             | 605.28                                   | 7.70                           | 597.58                                     |
| OMW-2             | 605.99                                   | 5.78                           | 600.21                                     |
| OMW-3             | 598.63                                   | 13.08                          | 585.55                                     |
| OMW-4R            | 601.17                                   | 13.33                          | 587.84                                     |
| OMW-5R            | 591.31                                   | 6.44                           | 584.87                                     |
| OMW-6             | 587.62                                   | N/A                            | -  |
| OMW-7             | 592.74                                   | 8.45                           | 584.29                                     |
| OMW-8R2           | 594.67                                   | 10.71                          | 583.96                                     |
| OMW-9             | 595.27                                   | N/A                            | -  |
| OMW-10R           | 595.13                                   | 8.65                           | 586.48                                     |
| OMW-11R           | 597.52                                   | 4.83                           | 592.69                                     |
| OMW-12R           | 596.71                                   | 4.70                           | 592.01                                     |
| OMW-13R           | 601.50                                   | 8.10                           | 593.40                                     |
| OMW-14R           | 599.64                                   | 5.19                           | 594.45                                     |
| OMW-15            | 607.48                                   | 6.57                           | 600.91                                     |
| OMW-16R           | 607.62                                   | 4.83                           | 602.79                                     |
| SC-2              | 625.61                                   | 22.73                          | 602.88                                     |
| SC-3              | 638.72                                   | 40.25                          | 598.47                                     |
| SC-4              | 639.35                                   | 39.05                          | 600.30                                     |
| SC-5              | 634.07                                   | Dry                            | -  |
| SC-6              | 631.15                                   | 22.30                          | 608.85                                     |

**Groundwater Elevation Summary  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>            | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|------------------------|--|--------------------------------|--|
| <b>Shallow Bedrock</b> |  |                                |  |
| CMW-1SH                | 576.11                                   | 13.41                          | 562.70                                     |
| CMW-2SH                | 590.51                                   | 17.92                          | 572.59                                     |
| CMW-3SH                | 581.91                                   | 28.10                          | 553.81                                     |
| CMW-4SH                | 574.16                                   | 7.61                           | 566.55                                     |
| CMW-5SH                | 583.36                                   | 6.24                           | 577.12                                     |
| CMW-6SH                | 572.05                                   | 10.51                          | 561.54                                     |
| CMW-7SH                | 610.58                                   | Frozen                         | -  |
| CMW-8SH                | 615.95                                   | 10.81                          | 605.14                                     |
| CMW-9SH                | 571.96                                   | 12.14                          | 559.82                                     |
| CMW-11SH               | 573.21                                   | 8.25                           | 564.96                                     |
| CMW-12SH               | 597.02                                   | 22.57                          | 574.45                                     |
| <b>Flow Zone 1</b>     |  |                                |  |
| G1U-01                 | 617.08                                   | 18.20                          | 598.88                                     |
| G6-01                  | 609.24                                   | 10.10                          | 599.14                                     |
| H2U-01                 | 620.92                                   | 15.01                          | 605.91                                     |
| H5-01                  | 617.61                                   | 15.45                          | 602.16                                     |
| I1-01                  | 625.58                                   | 28.53                          | 597.05                                     |
| <b>Flow Zone 2</b>     |  |                                |  |
| F2U-02                 | 599.89                                   | 25.03                          | 574.86                                     |
| F4U-02                 | 602.32                                   | 17.14                          | 585.18                                     |
| G1-02                  | 616.86                                   | 26.55                          | 590.31                                     |
| G6-02                  | 608.65                                   | 18.43                          | 590.22                                     |
| H2U-02                 | 620.88                                   | 27.40                          | 593.48                                     |
| H5-02                  | 617.47                                   | 25.10                          | 592.37                                     |
| I1-02                  | 625.47                                   | 41.02                          | 584.45                                     |
| J2U-02                 | 609.66                                   | 16.82                          | 592.84                                     |
| J5U-02                 | 606.21                                   | 12.98                          | 593.23                                     |
| J6-02                  | 609.23                                   | 14.81                          | 594.42                                     |
| <b>Flow Zone 4</b>     |  |                                |  |
| AFW-2U-04              | 593.48                                   | 18.50                          | 574.98                                     |
| D1U-04                 | 593.77                                   | 13.54                          | 580.23                                     |
| D2U-04                 | 590.65                                   | 12.51                          | 578.14                                     |
| E6-04                  | 578.23                                   | 12.95                          | 565.28                                     |
| F2U-04                 | 599.76                                   | 22.85                          | 576.91                                     |
| F4U-04                 | 602.19                                   | 17.27                          | 584.92                                     |
| F6-04                  | 588.06                                   | 18.39                          | 569.67                                     |
| G1U-04                 | 616.96                                   | 27.30                          | 589.66                                     |
| G6-04                  | 609.15                                   | 18.53                          | 590.62                                     |
| H5-04                  | 617.40                                   | 25.09                          | 592.31                                     |
| I1-04                  | 625.30                                   | 42.00                          | 583.30                                     |
| J2U-04                 | 609.42                                   | 18.87                          | 590.55                                     |
| J5U-04                 | 606.05                                   | 20.12                          | 585.93                                     |
| J6-04                  | 609.12                                   | 29.85                          | 579.27                                     |

**Groundwater Elevation Summary  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>        | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|--------------------|--|--------------------------------|--|
| <b>Flow Zone 5</b> |  |                                |  |
| AFW-2U-05          | 593.33                                   | 18.49                          | 574.84                                     |
| AGW-1U-05          | 591.80                                   | 6.95                           | 584.85                                     |
| D1U-05             | 593.51                                   | 13.82                          | 579.69                                     |
| D2U-05             | 590.56                                   | 11.26                          | 579.30                                     |
| E6-05              | 578.04                                   | 12.70                          | 565.34                                     |
| F2U-05             | 599.64                                   | 22.48                          | 577.16                                     |
| F4U-05             | 602.06                                   | 20.10                          | 581.96                                     |
| F6-05              | 587.85                                   | 18.28                          | 569.57                                     |
| G6-05              | 609.13                                   | 18.72                          | 590.41                                     |
| H2M-05             | 621.59                                   | 30.08                          | 591.51                                     |
| H5-05              | 617.31                                   | 26.57                          | 590.74                                     |
| I1-05              | 625.25                                   | 73.01                          | 552.24                                     |
| J2U-05             | 609.30                                   | 30.76                          | 578.54                                     |
| J5U-05             | 605.87                                   | 26.91                          | 578.96                                     |
| J6-05              | 609.02                                   | 30.62                          | 578.40                                     |
| PMW-1U-05          | 598.00                                   | 18.69                          | 579.31                                     |
| <b>Flow Zone 6</b> |  |                                |  |
| ABP-7-06           | 575.78                                   | Dry                            | -  |
| AFW-1U-06          | 571.83                                   | 15.54                          | 556.29                                     |
| AFW-2U-06          | 593.22                                   | 48.11                          | 545.11                                     |
| AGW-1U-06          | 591.66                                   | 38.65                          | 553.01                                     |
| B2U-06             | 589.29                                   | 35.43                          | 553.86                                     |
| C3-06              | 585.78                                   | Dry                            | -  |
| D1U-06             | 593.25                                   | 46.82                          | 546.43                                     |
| D2U-06             | 590.38                                   | 43.25                          | 547.13                                     |
| E6-06              | 577.99                                   | 7.41                           | 570.58                                     |
| F2M-06             | 599.06                                   | 53.52                          | 545.54                                     |
| F4M-06             | 602.05                                   | 52.05                          | 550.00                                     |
| F6-06              | 587.84                                   | 17.18                          | 570.66                                     |
| G1M-06             | 616.75                                   | 46.25                          | 570.50                                     |
| G6-06              | 609.09                                   | 37.92                          | 571.17                                     |
| H2M-06             | 621.42                                   | 35.57                          | 585.85                                     |
| H5-06              | 617.17                                   | 28.48                          | 588.69                                     |
| I1-06              | 625.15                                   | 74.97                          | 550.18                                     |
| J2M-06             | 608.94                                   | 56.54                          | 552.40                                     |
| J5M-06             | 606.22                                   | 60.87                          | 545.35                                     |
| J6-06              | 608.93                                   | 54.43                          | 554.50                                     |
| PMW-1U-06          | 597.92                                   | 51.03                          | 546.89                                     |

**Groundwater Elevation Summary  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| Well               | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Groundwater Elevation<br>(ft AMSL) |
|--------------------|----------------------------------|------------------------|------------------------------------|
| <b>Flow Zone 7</b> |                                  |                        |                                    |
| ABP-1-07           | 575.20                           | 28.55                  | 546.65                             |
| ABP-7-07           | 575.73                           | 42.55                  | 533.18                             |
| AFW-1M-07          | 571.41                           | Dry                    | -                                  |
| AFW-2M-07          | 593.44                           | 66.91                  | 526.53                             |
| AGW-1M-07          | 592.91                           | 46.13                  | 546.78                             |
| B2M-07             | 589.52                           | 59.15                  | 530.37                             |
| C3-07              | 585.62                           | 44.23                  | 541.39                             |
| D1M-07             | 594.15                           | 69.51                  | 524.64                             |
| D2M-07             | 590.77                           | 65.31                  | 525.46                             |
| E6-07              | 577.91                           | 23.51                  | 554.40                             |
| F2M-07             | 598.91                           | 83.10                  | 515.81                             |
| F4M-07             | 601.91                           | 80.50                  | 521.41                             |
| F6-07              | 587.68                           | 19.98                  | 567.70                             |
| G1M-07             | 616.68                           | 47.45                  | 569.23                             |
| G6-07              | 609.06                           | 38.80                  | 570.26                             |
| H5-07              | 617.05                           | 61.50                  | 555.55                             |
| I1-07              | 625.14                           | 78.52                  | 546.62                             |
| J5M-07             | 606.07                           | 58.93                  | 547.14                             |
| J6-07              | 608.85                           | 62.44                  | 546.41                             |
| PMW-1M-07          | 598.50                           | 69.90                  | 528.60                             |
| <b>Flow Zone 9</b> |                                  |                        |                                    |
| ABP-1-09           | 575.19                           | 40.61                  | 534.58                             |
| ABP-7-09           | 575.67                           | 41.38                  | 534.29                             |
| AFW-1M-09          | 571.12                           | 46.71                  | 524.41                             |
| AFW-2M-09          | 593.32                           | 72.46                  | 520.86                             |
| AGW-1M-09          | 592.75                           | 44.55                  | 548.20                             |
| B2M-09             | 589.34                           | 59.70                  | 529.64                             |
| C3-09              | 585.00                           | 44.74                  | 540.26                             |
| D1M-09             | 594.02                           | 72.95                  | 521.07                             |
| D2M-09             | 590.66                           | 75.54                  | 515.12                             |
| E6-09              | 577.82                           | 25.83                  | 551.99                             |
| F2M-09             | 598.71                           | 84.22                  | 514.49                             |
| F4M-09             | 601.79                           | 87.34                  | 514.45                             |
| F6-09              | 587.53                           | 18.11                  | 569.42                             |
| G1M-09             | 616.58                           | 44.55                  | 572.03                             |
| G6-09              | 608.98                           | 38.99                  | 569.99                             |
| H2M-09             | 621.32                           | 75.09                  | 546.23                             |
| H5-09              | 616.93                           | 70.84                  | 546.09                             |
| I1-09              | 624.91                           | 61.35                  | 563.56                             |
| J2M-09             | 608.77                           | 61.60                  | 547.17                             |
| J5M-09             | 605.82                           | 58.81                  | 547.01                             |
| J6-09              | 608.76                           | 45.47                  | 563.29                             |
| PMW-1M-09          | 598.34                           | Dry                    | -                                  |

**Groundwater Elevation Summary  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| <b>Well</b>         | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Groundwater Elevation<br/>(ft AMSL)</b> |
|---------------------|--|--------------------------------|--|
| <b>Flow Zone 11</b> |  |                                |  |
| AFW-1L-11           | 572.10                                   | 65.67                          | 506.43                                     |
| AFW-2L-11           | 593.43                                   | 97.77                          | 495.66                                     |
| AGW-1L-11           | 592.71                                   | 7.75                           | 584.96                                     |
| B2L-11              | 589.65                                   | 91.35                          | 498.30                                     |
| D1L-11              | 593.80                                   | 91.14                          | 502.66                                     |
| D2L-11              | 590.21                                   | 66.35                          | 523.86                                     |
| E6-11               | 577.72                                   | 49.22                          | 528.50                                     |
| F2L-11              | 598.94                                   | 43.28                          | 555.66                                     |
| F4L-11              | 602.22                                   | 30.15                          | 572.07                                     |
| F6-11               | 587.40                                   | 62.03                          | 525.37                                     |
| G1L-11              | 616.84                                   | 65.30                          | 551.54                                     |
| G6-11               | 608.89                                   | 54.03                          | 554.86                                     |
| H2L-11              | 620.73                                   | 67.17                          | 553.56                                     |
| H5-11               | 616.81                                   | 75.72                          | 541.09                                     |
| I1-11               | 624.75                                   | 77.41                          | 547.34                                     |
| J5L-11              | 607.20                                   | 65.37                          | 541.83                                     |
| J6-11               | 608.68                                   | 24.24                          | 584.44                                     |
| PMW-1L-11           | 598.84                                   | 85.11                          | 513.73                                     |
| <b>Purge Wells</b>  |  |                                |  |
| APW-1               | 564.98                                   | 51.98                          | 513.00                                     |
| APW-2               | 569.89                                   | 57.79                          | 512.10                                     |
| PW-1L               | 593.16                                   | 93.76                          | 499.40                                     |
| PW-1U               | 593.50                                   | 43.80                          | 549.70                                     |
| PW-2L               | 597.29                                   | 103.09                         | 494.20                                     |
| PW-2M               | 596.61                                   | 83.91                          | 512.70                                     |
| PW-2UR              | 594.75                                   | 36.65                          | 558.10                                     |
| PW-3L               | 599.05                                   | 81.85                          | 517.20                                     |
| PW-3M               | 597.79                                   | 76.89                          | 520.90                                     |
| PW-4M               | 606.93                                   | 82.63                          | 524.30                                     |
| PW-4U               | 604.85                                   | 30.45                          | 574.40                                     |
| PW-5UR              | 601.31                                   | 44.41                          | 556.90                                     |
| PW-6UMR             | 609.31                                   | 104.10                         | 505.21                                     |
| PW-6UR              | 608.47                                   | 48.07                          | 560.40                                     |
| PW-7U               | 592.47                                   | 18.17                          | 574.30                                     |
| PW-8M               | 592.67                                   | 74.57                          | 518.10                                     |
| PW-8U               | 589.27                                   | 22.97                          | 566.30                                     |
| PW-9U               | 587.47                                   | 43.17                          | 544.30                                     |
| PW-10U              | 593.54                                   | 28.94                          | 564.60                                     |

## Notes:

- - Not applicable
- ft AMSL - Feet above mean sea level
- Surcharged - Well surcharged at the time of measurement
- Dry - No water present at the time of measurement
- Frozen - Lid frozen shut, cannot open
- N/A - Not accessible

**Leachate Treatment System Daily Effluent Monitoring Data  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 10/01/24 |            |               |
| 10/02/24 | 7.7        | 180,000       |
| 10/03/24 |            |               |
| 10/04/24 |            |               |
| 10/05/24 |            |               |
| 10/06/24 |            |               |
| 10/07/24 |            |               |
| 10/08/24 | 7.6        | 142,000       |
| 10/09/24 | 7.7        | 33,000        |
| 10/10/24 |            |               |
| 10/11/24 |            |               |
| 10/12/24 |            |               |
| 10/13/24 |            |               |
| 10/14/24 |            |               |
| 10/15/24 | 7.7        | 180,000       |
| 10/16/24 | 8.0        | 31,000        |
| 10/17/24 | 8.0        | 5,000         |
| 10/18/24 |            |               |
| 10/19/24 |            |               |
| 10/20/24 |            |               |
| 10/21/24 |            |               |
| 10/22/24 | 8.1        | 172,000       |
| 10/23/24 | 7.9        | 19,000        |
| 10/24/24 |            |               |
| 10/25/24 |            |               |
| 10/26/24 |            |               |
| 10/27/24 |            |               |
| 10/28/24 |            |               |
| 10/29/24 | 8.1        | 37,000        |
| 10/30/24 | 8.1        | 186,000       |
| 10/31/24 | 8.0        | 34,000        |
| 11/01/24 |            |               |
| 11/02/24 |            |               |
| 11/03/24 |            |               |
| 11/04/24 |            |               |
| 11/05/24 |            |               |
| 11/06/24 | 8.0        | 178,000       |

**Leachate Treatment System Daily Effluent Monitoring Data  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 11/07/24 |            |               |
| 11/08/24 |            |               |
| 11/09/24 |            |               |
| 11/10/24 |            |               |
| 11/11/24 |            |               |
| 11/12/24 | 7.8        | 174,000       |
| 11/13/24 |            |               |
| 11/14/24 |            |               |
| 11/15/24 |            |               |
| 11/16/24 |            |               |
| 11/17/24 |            |               |
| 11/18/24 |            |               |
| 11/19/24 |            |               |
| 11/20/24 | 8.0        | 167,000       |
| 11/21/24 |            |               |
| 11/22/24 |            |               |
| 11/23/24 |            |               |
| 11/24/24 |            |               |
| 11/25/24 |            |               |
| 11/26/24 |            |               |
| 11/27/24 | 8.0        | 135,000       |
| 11/28/24 | 7.9        | 141,000       |
| 11/29/24 |            |               |
| 11/30/24 |            |               |
| 12/01/24 |            |               |
| 12/02/24 |            |               |
| 12/03/24 | 8.0        | 150,000       |
| 12/04/24 | 8.0        | 32,000        |
| 12/05/24 |            |               |
| 12/06/24 |            |               |
| 12/07/24 |            |               |
| 12/08/24 |            |               |
| 12/09/24 |            |               |
| 12/10/24 | 7.9        | 198,000       |
| 12/11/24 | 7.9        | 50,000        |
| 12/12/24 |            |               |
| 12/13/24 |            |               |

**Leachate Treatment System Daily Effluent Monitoring Data  
Fourth Quarter - 2024  
Hyde Park RRT Program**

| Date     | Effluent     |               |
|----------|--------------|---------------|
|          | pH<br>(su)   | Flow<br>(gal) |
| 12/14/24 |              |               |
| 12/15/24 |              |               |
| 12/16/24 | 7.9          | 127,000       |
| 12/17/24 |              |               |
| 12/18/24 | 8.0          | 186,000       |
| 12/19/24 | 8.0          | 138,000       |
| 12/20/24 |              |               |
| 12/21/24 |              |               |
| 12/22/24 |              |               |
| 12/23/24 |              |               |
| 12/24/24 |              |               |
| 12/25/24 |              |               |
| 12/26/24 |              |               |
| 12/27/24 | 8.0          | 201,000       |
| 12/28/24 |              |               |
| 12/29/24 |              |               |
| 12/30/24 |              |               |
| 12/31/24 | 8.0          | 172,000       |
|          | <b>Total</b> | 3,068,000     |

Notes:

- su - Standard Unit
- gal - Gallons

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Fourth Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 10/02/2024 | 10/09/2024 | 10/16/2024 | 10/23/2024 | 10/30/2024 | 11/06/2024 | 11/13/2024 | 11/20/2024 | 11/27/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 0.50 J     | 0.53 J     | 1.0 U      |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 3.7        | 3.5        | 1.0 U      |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 13         | 12         | 1.0 U      |
|                          | 1,2-Dichloropropane              | µg/L  | 0.92 J     | 1.1        | 1.0 U      |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      |
|                          | Benzene                          | µg/L  | 29         | 37         | 1.0 U      |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 2.1        | 4.5        | 1.0 U      | 1.0 U      | 1.0 U      | 0.76 J     | 2.0        | 1.6        | 2.0        |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 4.1        | 5.2        | 1.0 U      |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 3.2        | 3.3        | 1.0 U      |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 0.23 J     | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 0.31 J     | 1.0 U      |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 1.0 U      | 0.23 J     | 1.0 U      |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 33         | 29         | 1.0 U      | 1.0 U      | 0.58 J     | 0.51 J     | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.014      | 0.0343     | 0.0078     | 0.0117     | 0.0050 U   | 0.0097     | 0.0075     | 0.0075     | 0.0095     |

## Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**Fourth Quarter - 2024**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 12/04/2024 | 12/11/2024 | 12/17/2024 | 12/26/2024 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1-Dichloroethane               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1-Dichloroethene               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2,4-Trichlorobenzene           | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichloropropane              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 2-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 3-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 4-Chlorotoluene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Benzene                          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromodichloromethane             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromoform                        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 1.0 U      | 1.5        | 1.5        | 1.1        |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroethane                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | cis-1,3-Dichloropropene          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Dichlorodifluoromethane (CFC-12) | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Ethylbenzene                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | m&p-Xylenes                      | µg/L  | 2.0 U      | 2.0 U      | 2.0 U      | 2.0 U      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Methylene chloride               | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | o-Xylene                         | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Styrene                          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Tetrachloroethene                | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Toluene                          | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | trans-1,3-Dichloropropene        | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Trichloroethene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Vinyl acetate                    | µg/L  | 2.0 U      | 2.0 U      | 2.0 U      | 2.0 U      |
|                          | Vinyl chloride                   | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0057     | 0.0057     | 0.0099     | 0.0137     |

## 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 - 2024  
Hyde Park RRT Program**

|                         |                      |
|-------------------------|----------------------|
| <b>Sample Location:</b> | <b>EFFLUENT</b>      |
| <b>Sample ID:</b>       | <b>HP 121724 EFF</b> |
| <b>Sample Date:</b>     | <b>12/17/2024</b>    |

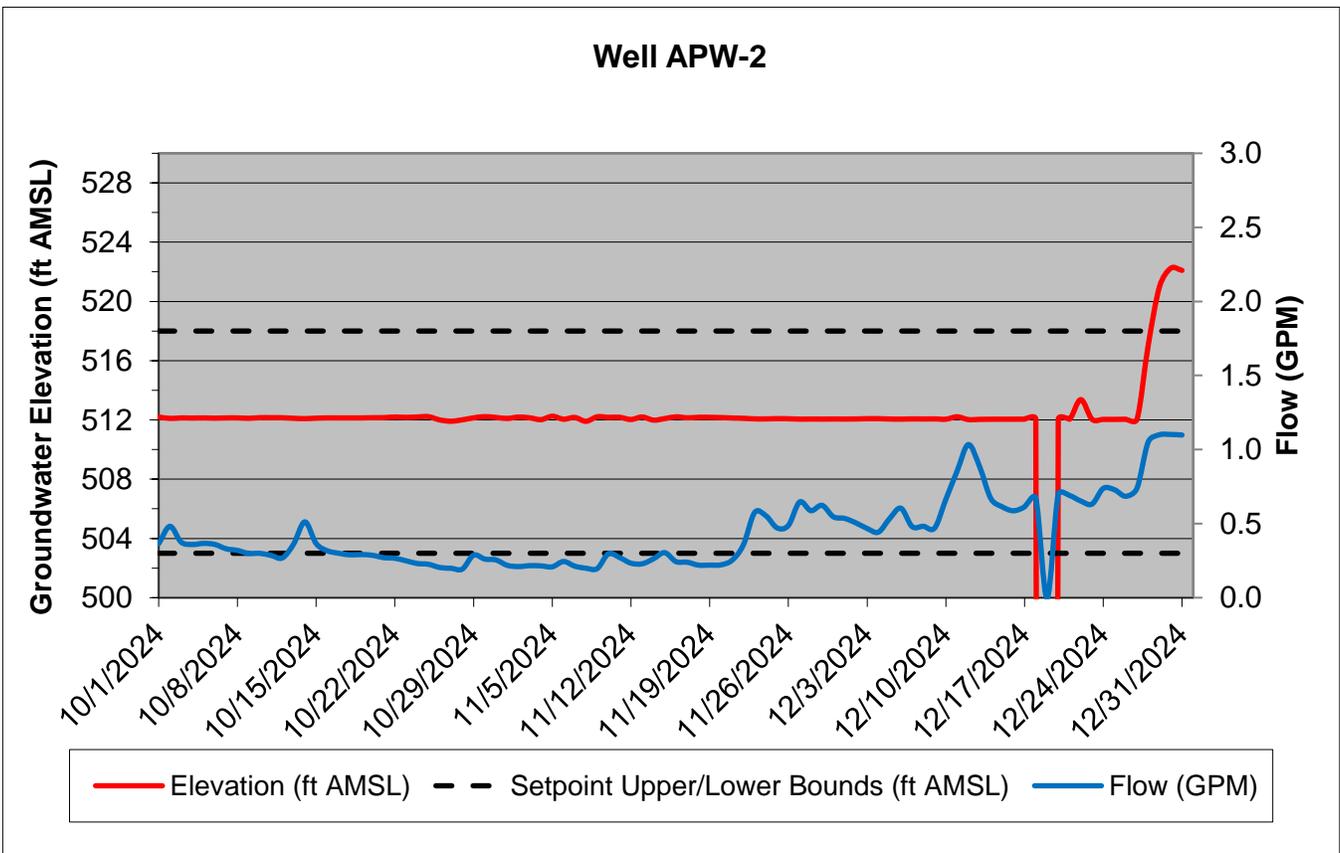
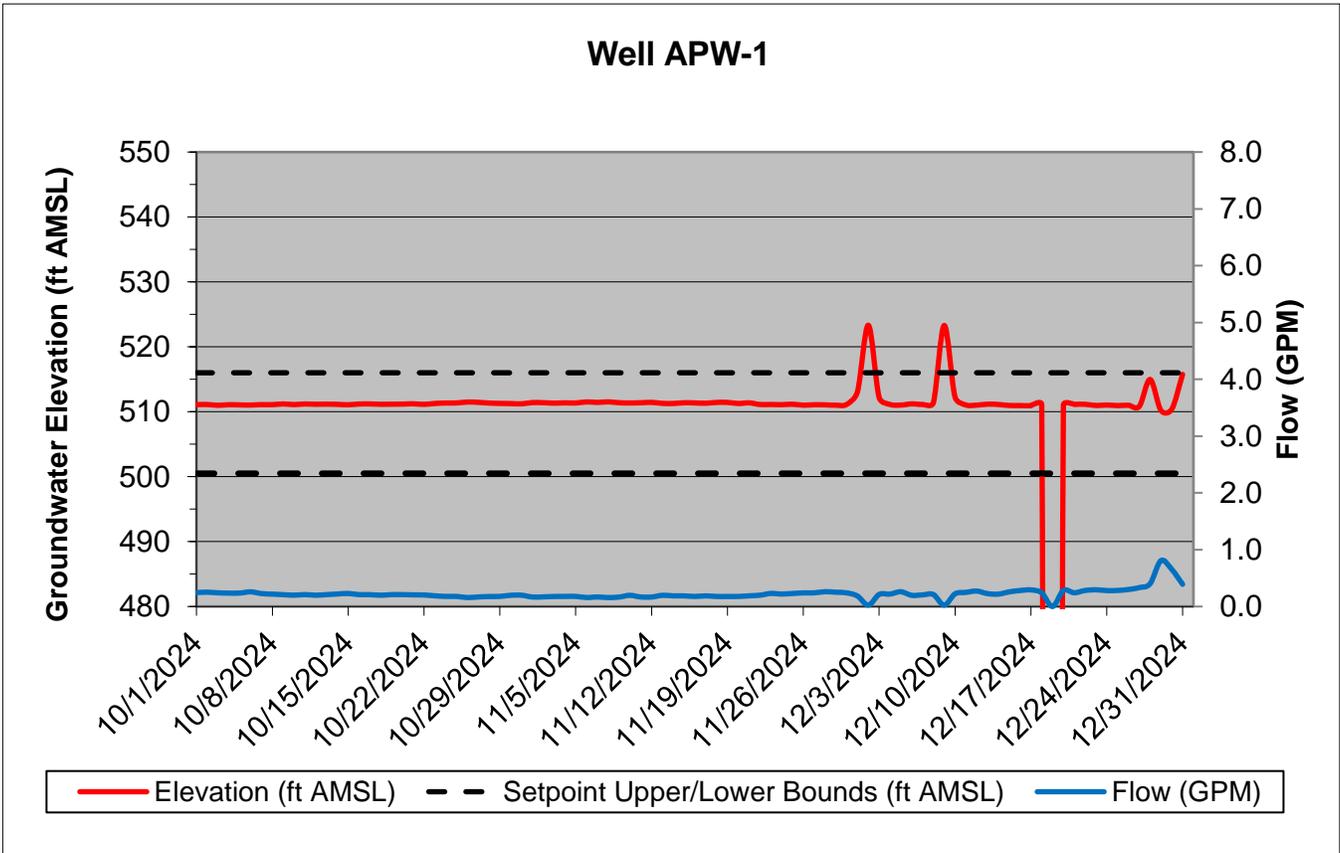
| <b>Parameters</b>                 | <b>Units</b> |        |
|-----------------------------------|--------------|--------|
| <b>Volatile Organic Compounds</b> |              |        |
| Vinyl chloride                    | µg/L         | 1.00 U |
| <b>General Chemistry</b>          |              |        |
| Phosphorus                        | mg/L         | 0.162  |

## Notes:

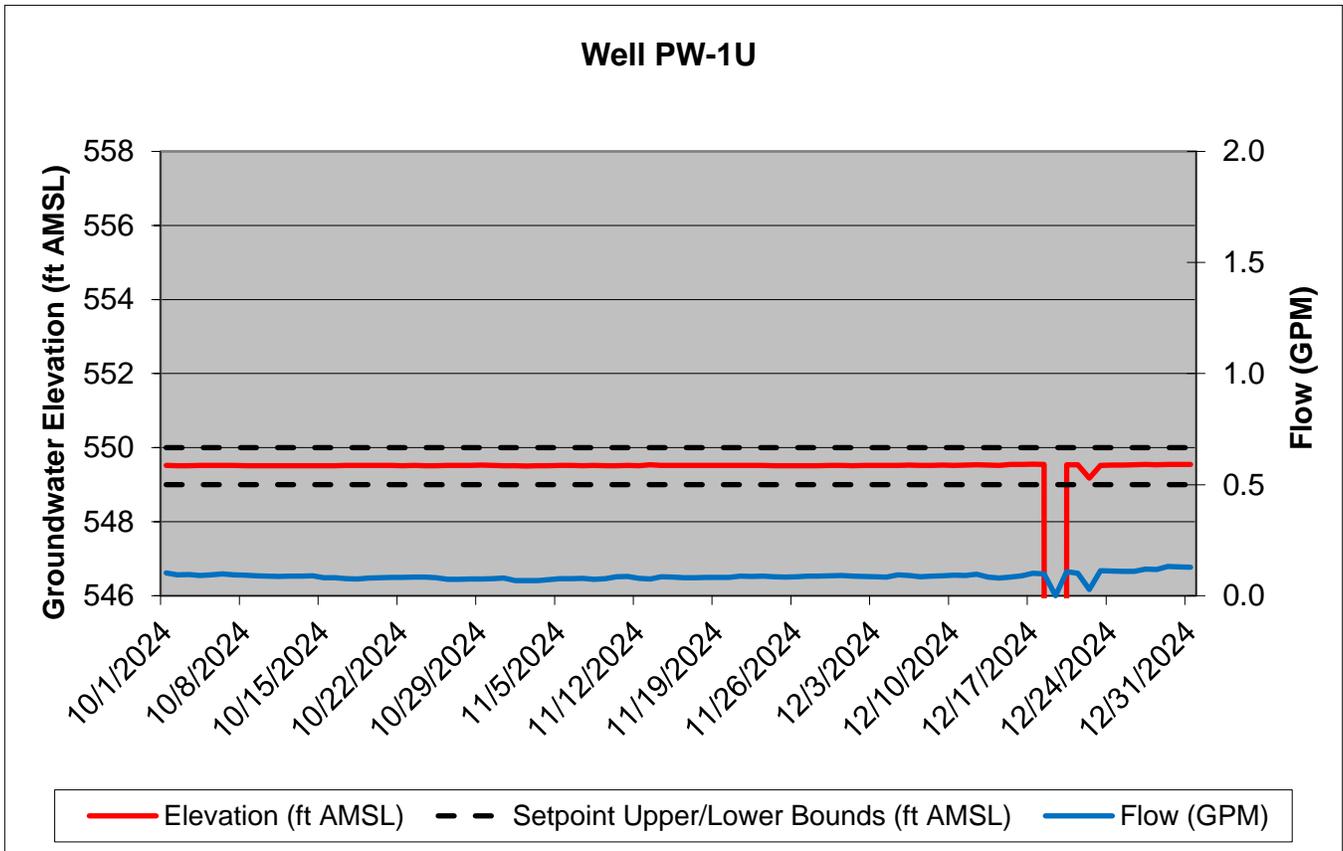
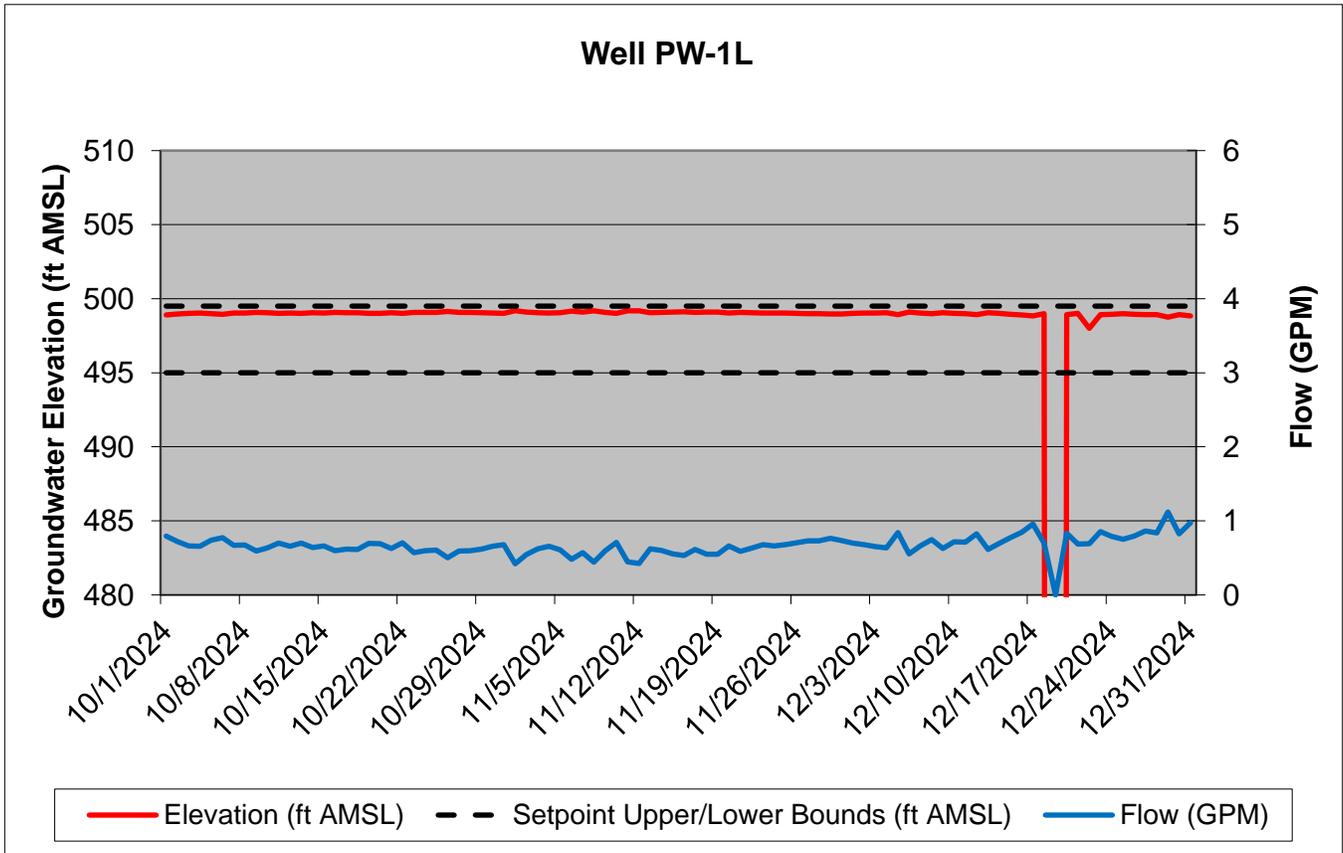
mg/L - Milligrams per liter

µg/L - Micrograms per liter

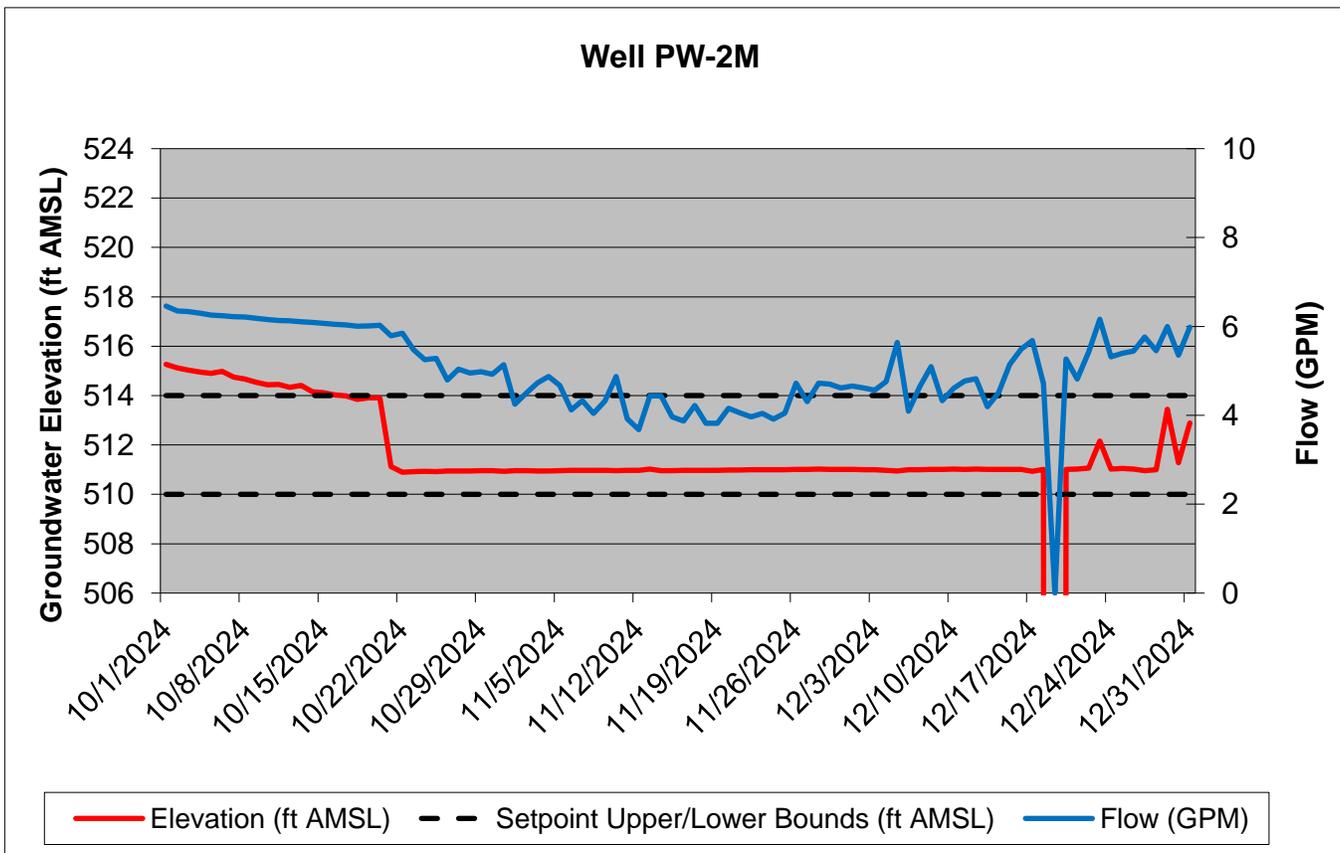
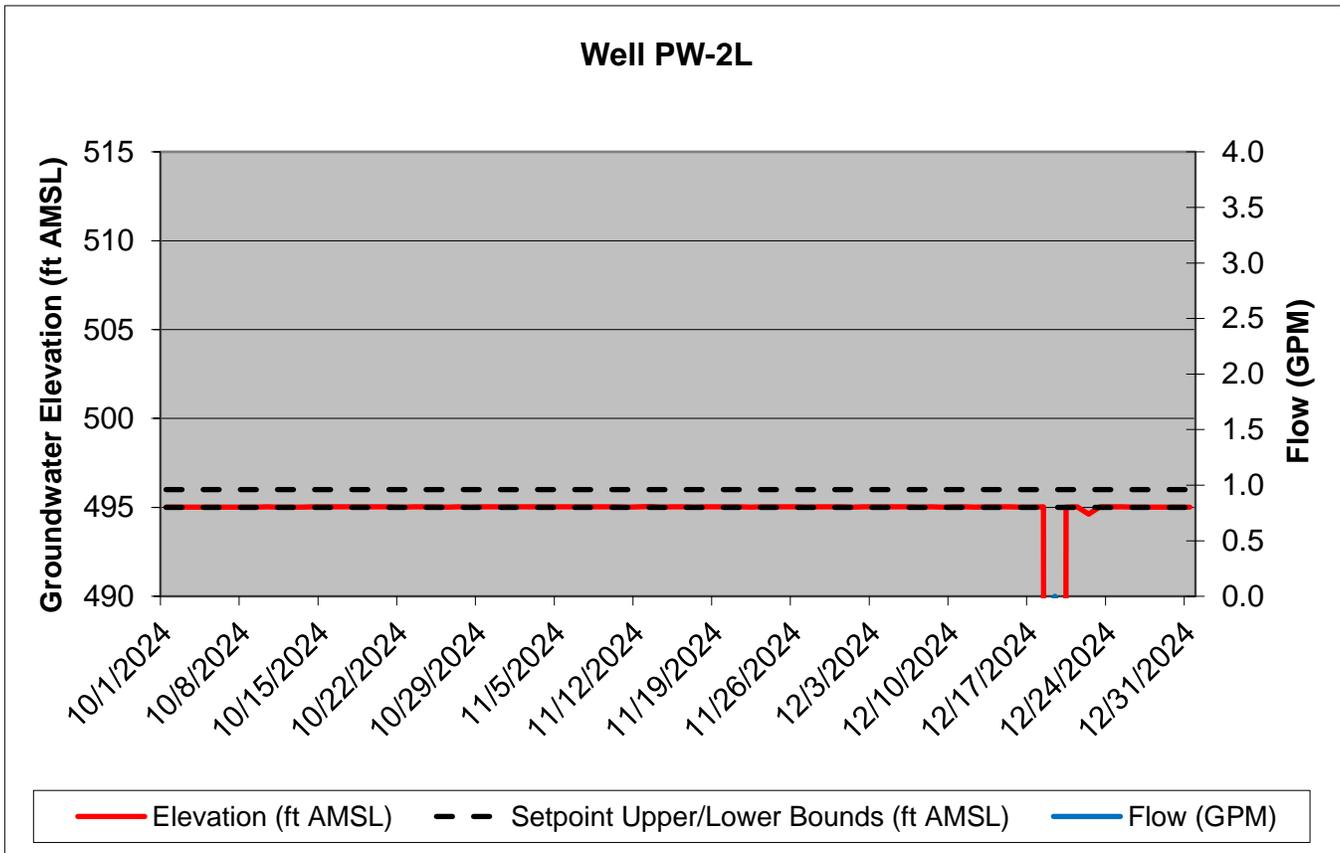
FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



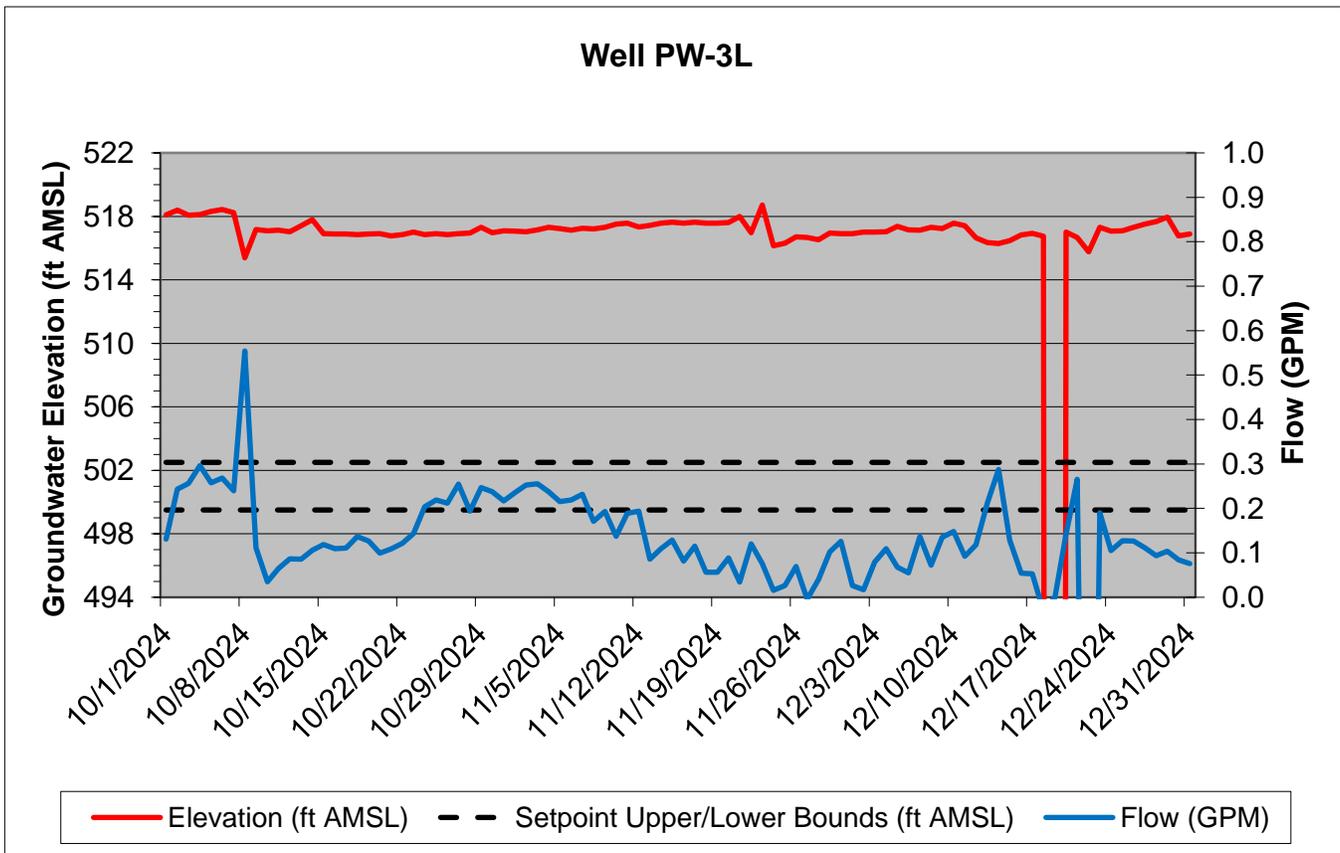
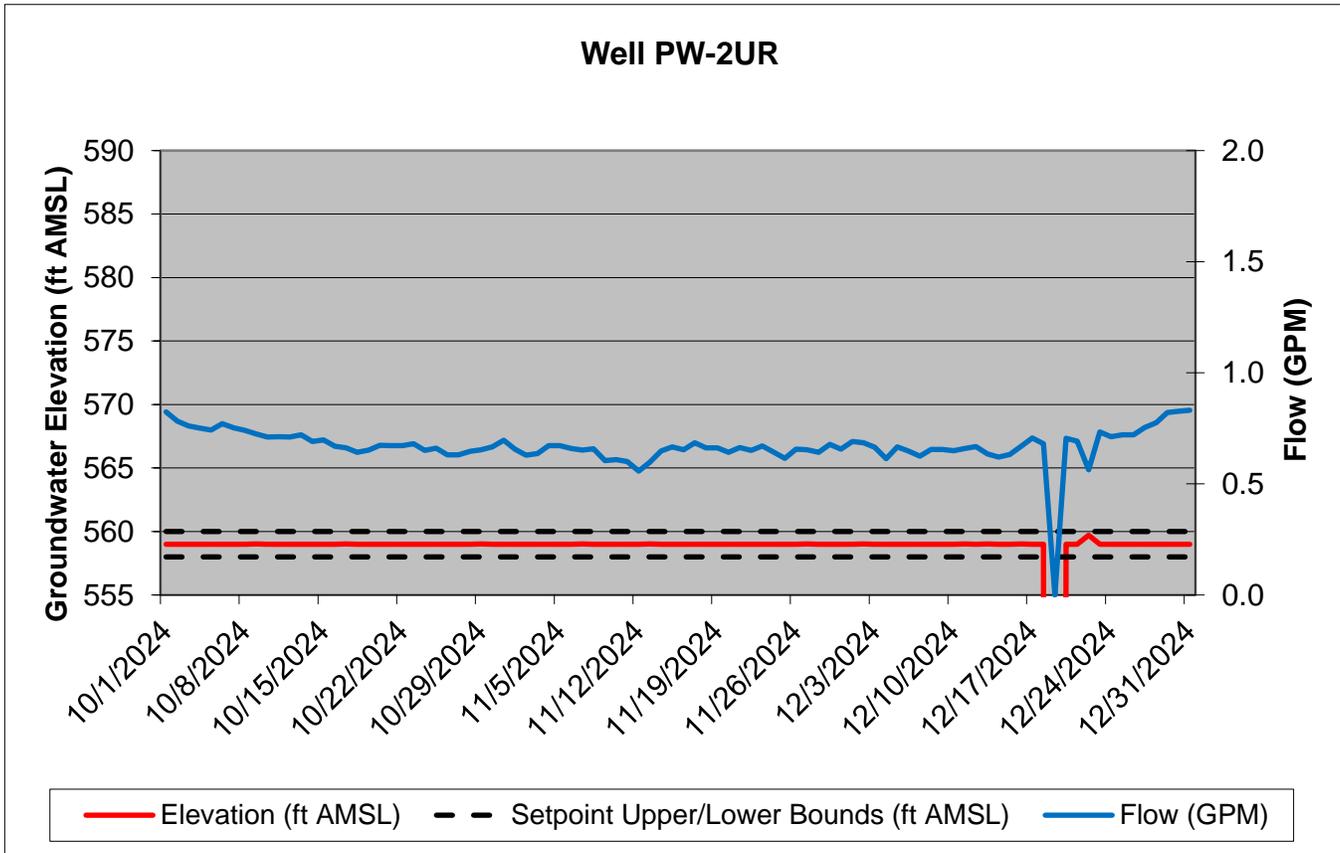
FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



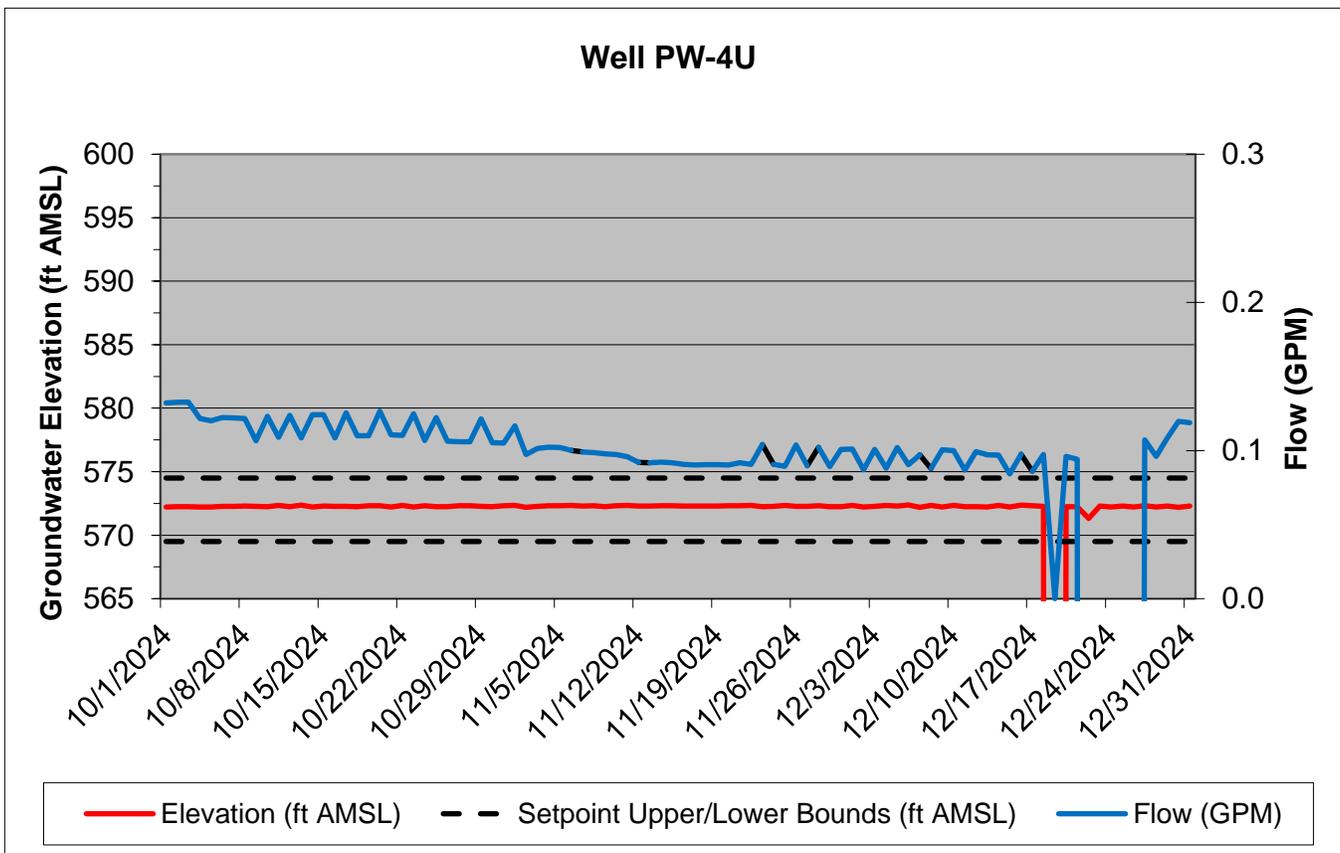
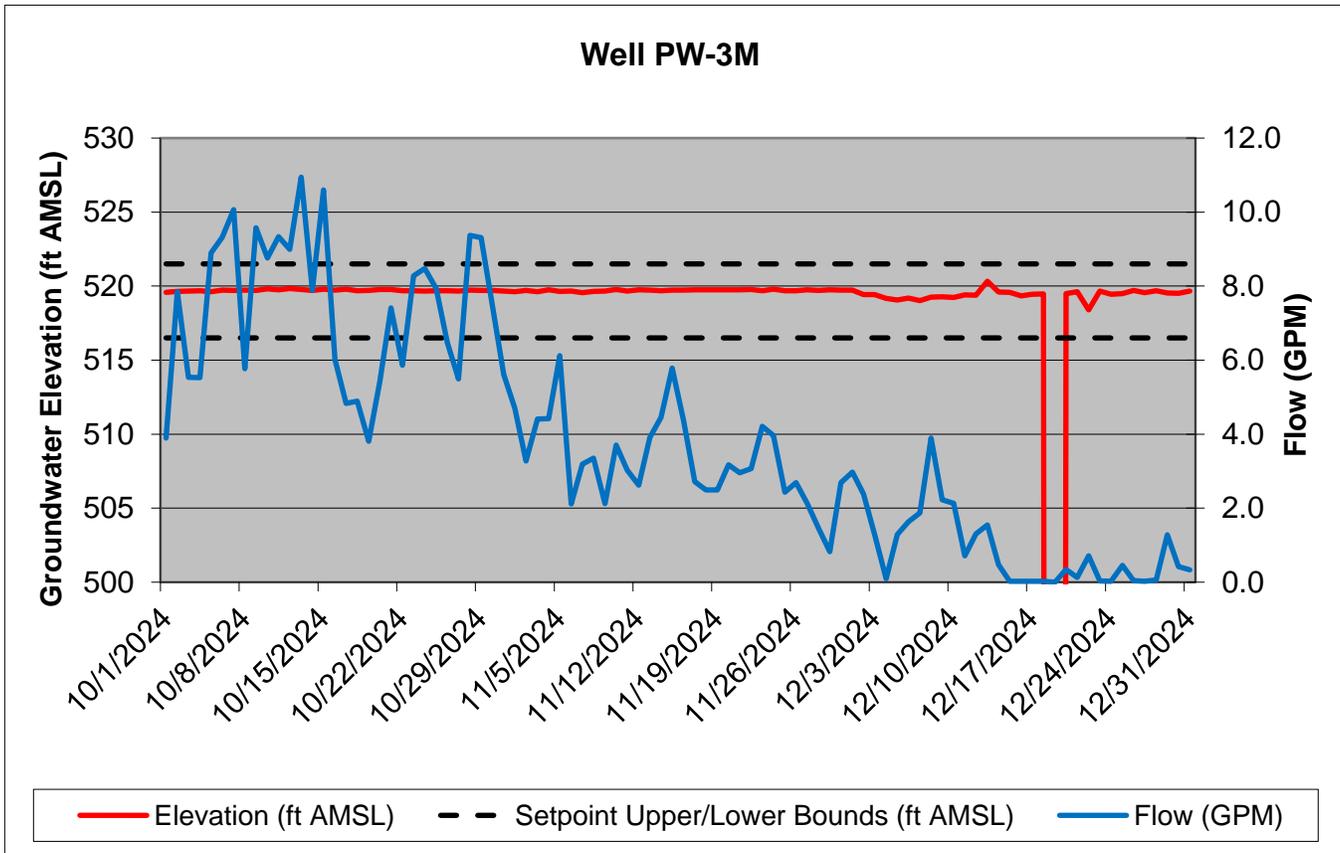
FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



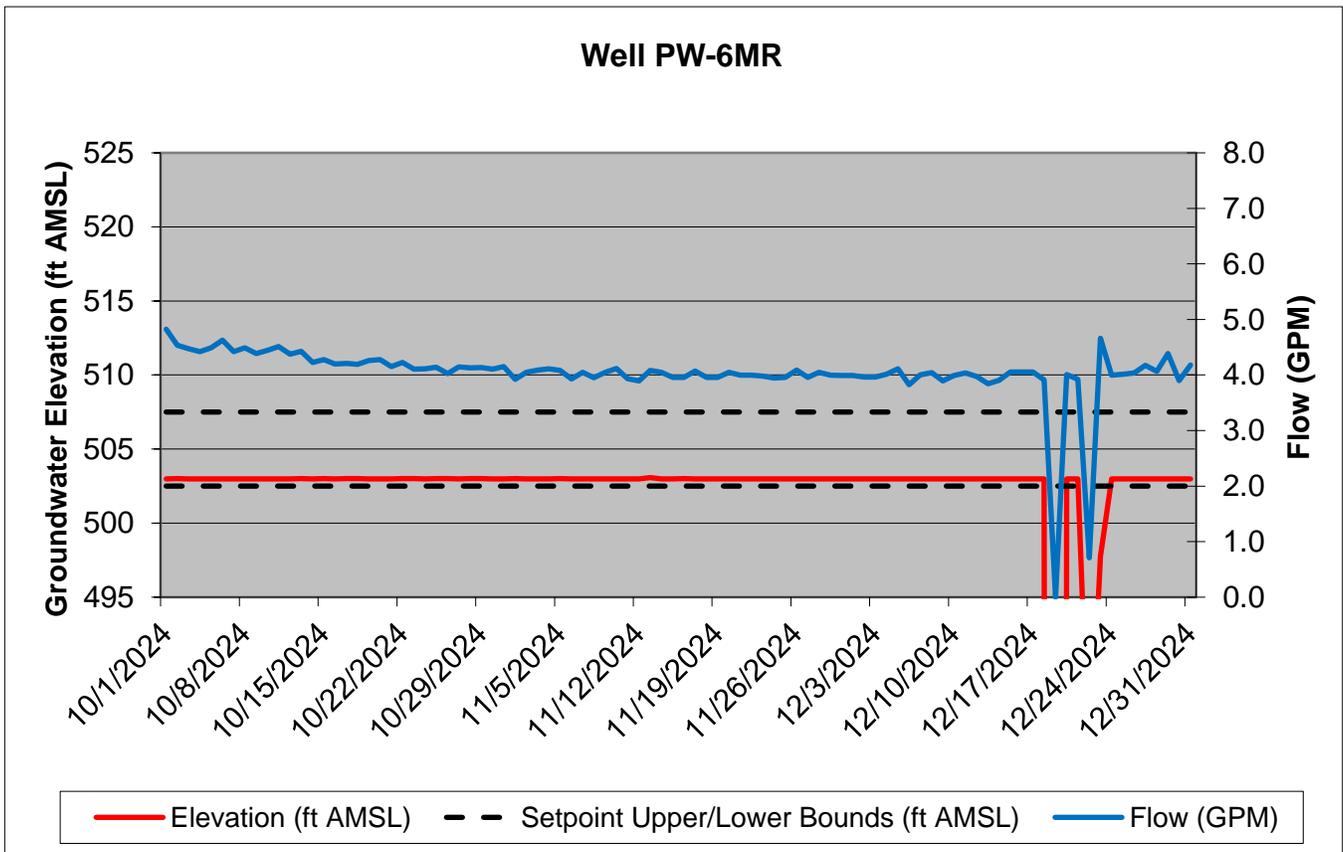
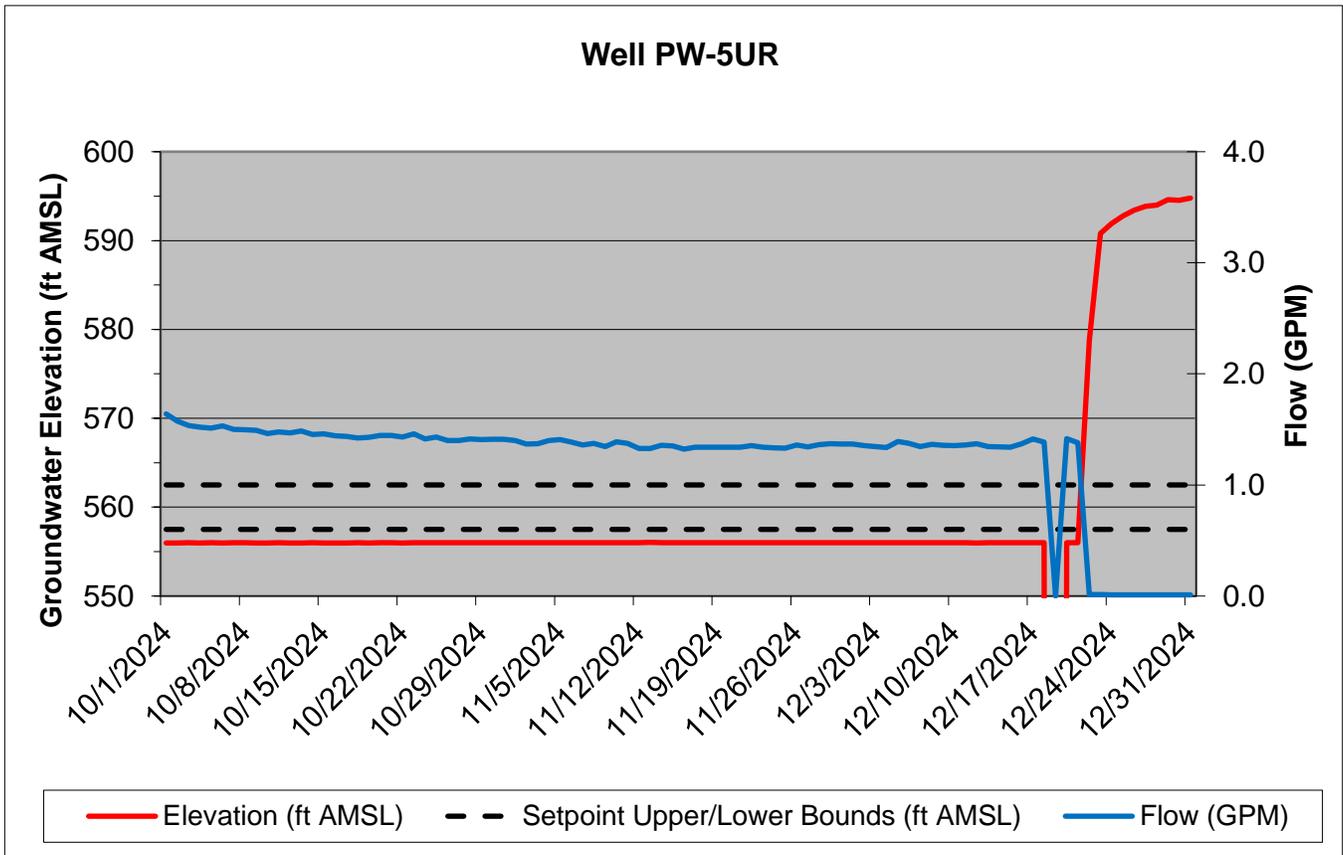
FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



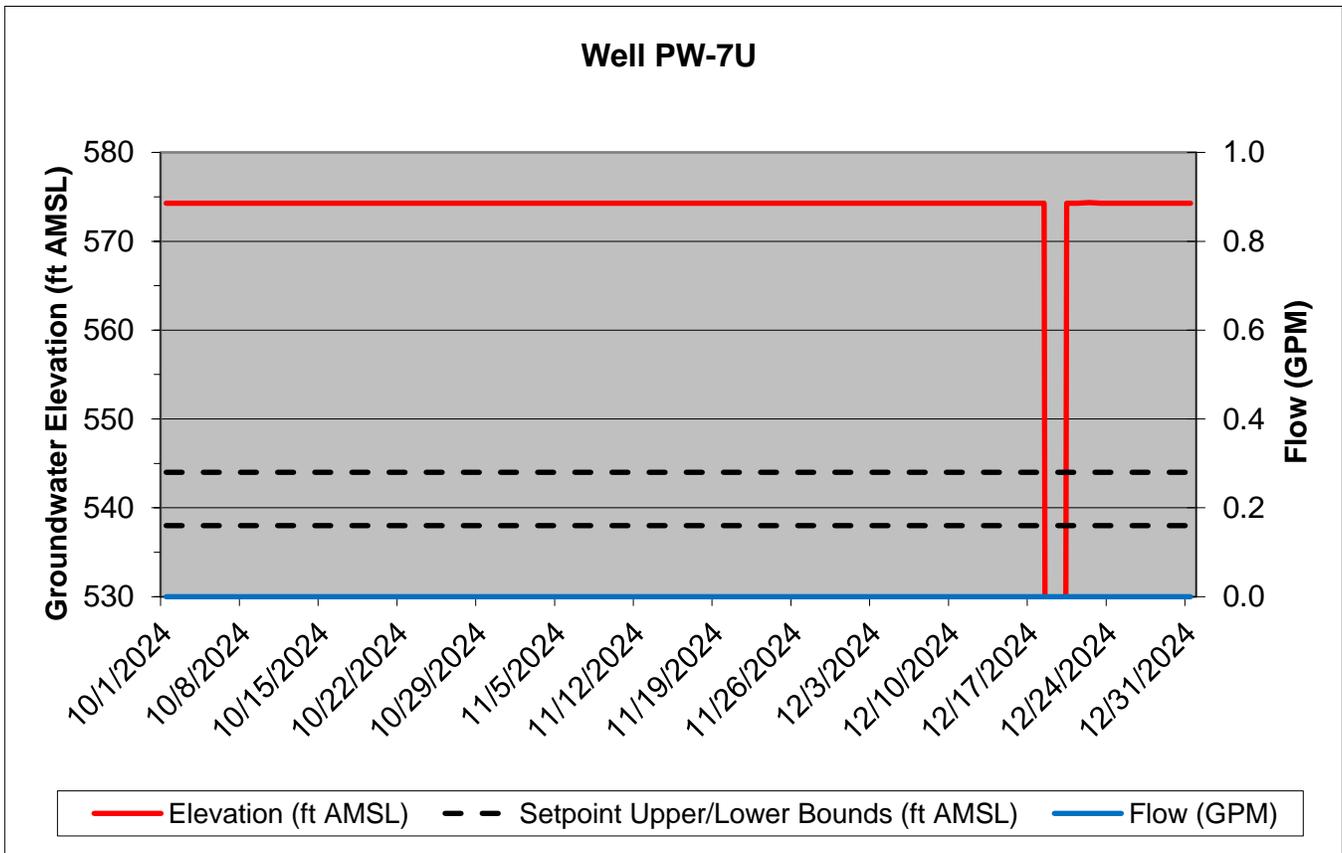
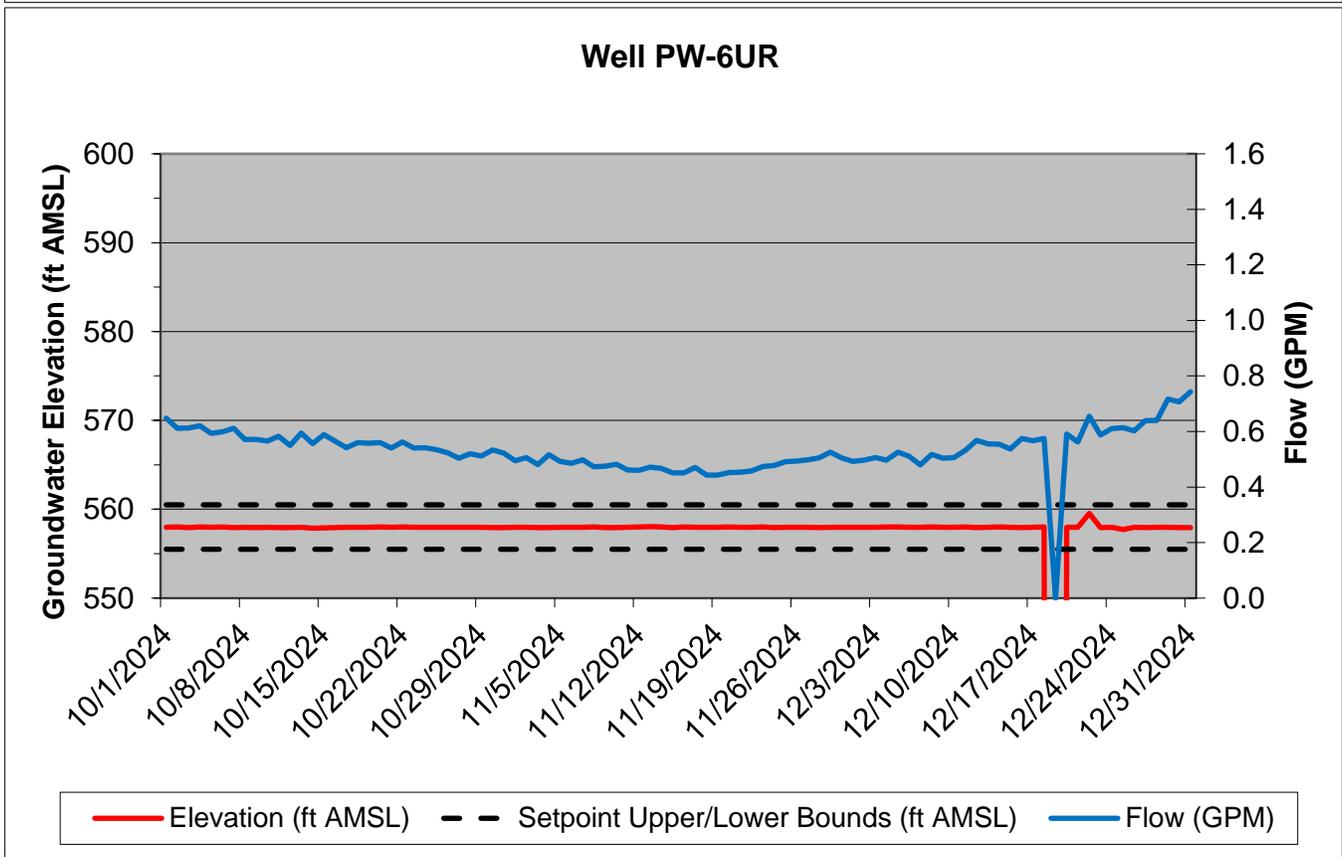
FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



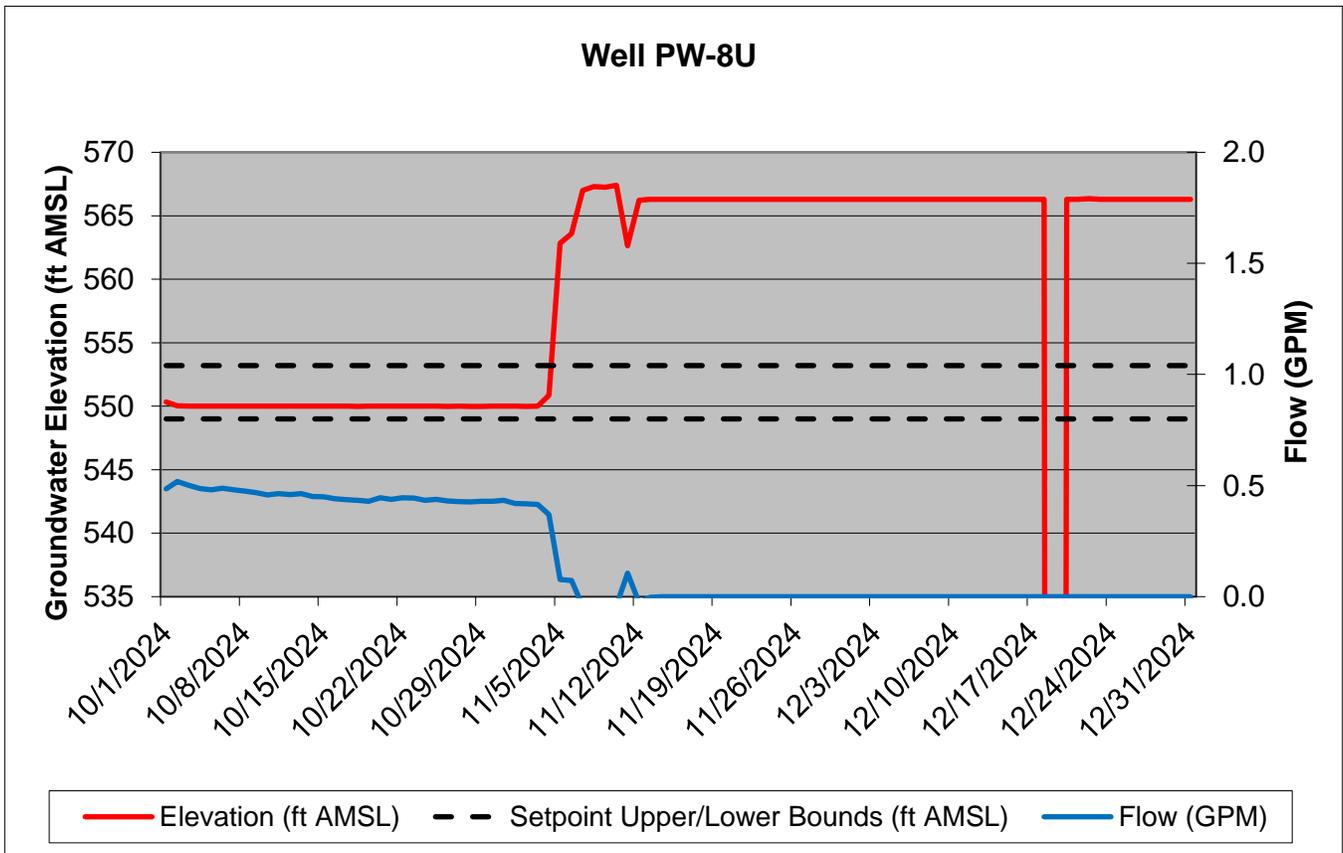
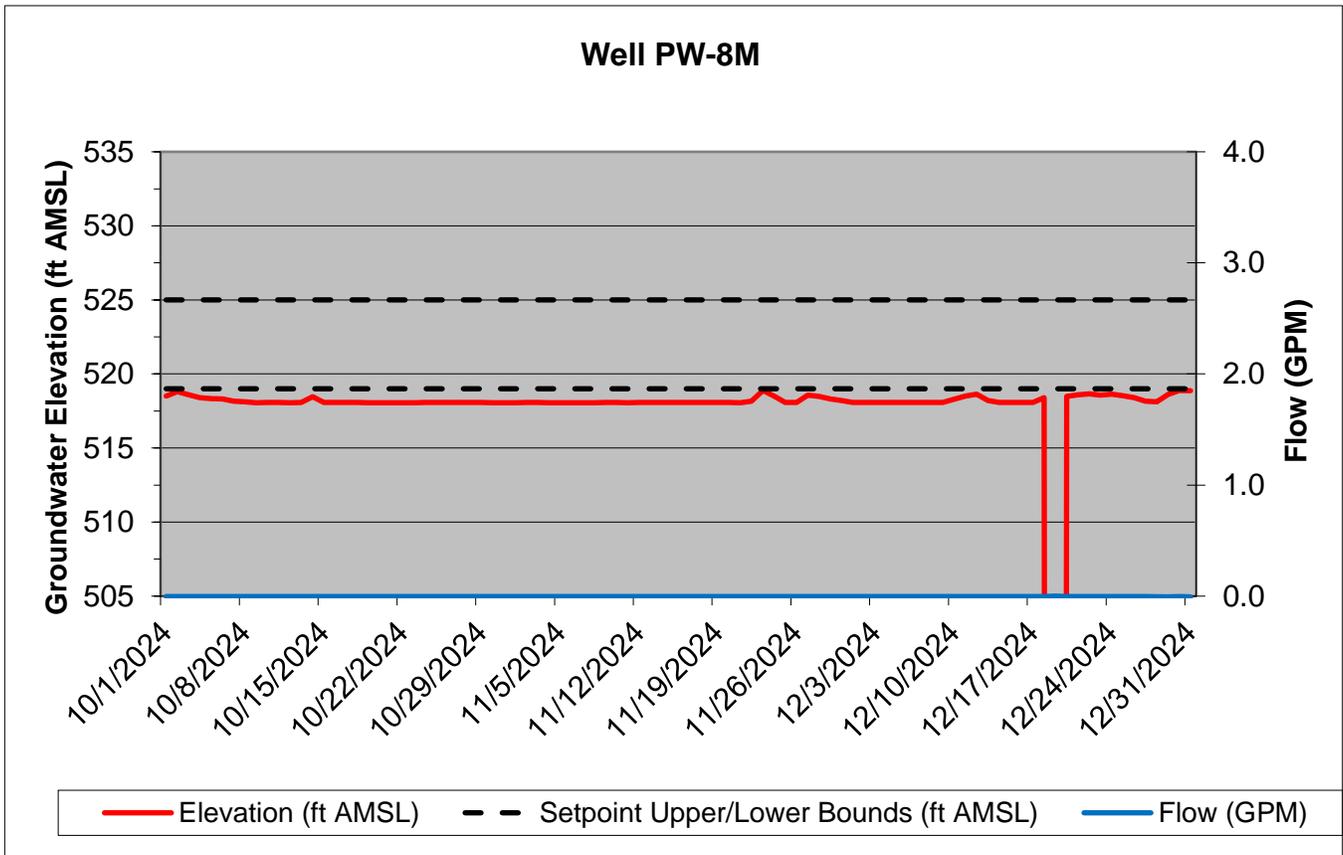
FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK



FOURTH QUARTER 2024 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

