

May 5, 2023

Mr. David Olson  
Streets of West Pryor, LLC  
7200 W 132nd Street, #150  
Overland Park, Kansas 66213

Re: Long-Term Monitoring Plan Survey Points  
Lots 7A (Area A), 7B (Area C), and 7C (Area B)  
Mine Remediation at Streets of West Pryor  
Lee's Summit, Missouri

Dear Mr. Olson,

This document serves to convey the results of the settlement monitoring that was conducted on the Streets West of Pryor project for the month of March 2023. This report has been updated with information provided by the surveyor, which has been documented in the updated Figure 2. During this monitoring period, potential ground movements were monitored using a combination of surface monitoring points (SMPs) and survey points that were established on sanitary and storm sewer inlets and/or manholes. Surveys of SMPs were performed by BHC, Inc. SMP C106 continued to remain covered with fill during this data collection period and has been omitted from figures. SMP B107 was previously covered by equipment during the January survey was uncovered during this observation period and location was recorded. To fill data gap for missing January 2023 time period, elevations were averaged from October 31<sup>st</sup>, 2022 and March 9<sup>th</sup>, 2023. Additional data points will be added to the monitoring record as they become available, and updated settlement monitoring results will be provided.

Table 1 and graphic plots show the updated data for SMPs. The current survey readings were obtained on 9, 2023, in general accordance with the Long-Term Monitoring Plan (LTMP). Table 1 documents the monitoring events to date and Exhibit 1 presents the graphic plots that depict the data obtained in relation to elapsed time. The installations of the sleeved rod monuments have been completed, and elevation data recorded.

Based on the current set of data and field observations, the monitoring results do not indicate that settlement has exceeded the limits established in the LTMP. Therefore, planned readings

will continue every two months for the duration of surface construction. The attachments included in this report provide the current results of the LTMP.

|           |   |                                       |
|-----------|---|---------------------------------------|
| Figure 1  | - | Monitoring Plan Locations             |
| Figure 2  | - | Monitoring Results from BHC           |
| Table 1   | - | Monitoring Point Displacement Summary |
| Exhibit 1 | - | Monitoring Point Graphic Plots        |

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# TERRA STRUCTURES, LLC



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Andrea Prince | [andrea@terra-struct.com](mailto:andrea@terra-struct.com)

We appreciate the opportunity to provide geotechnical services for this project. If you have a question regarding this letter, or if we may be of additional service to you, please contact the undersigned.

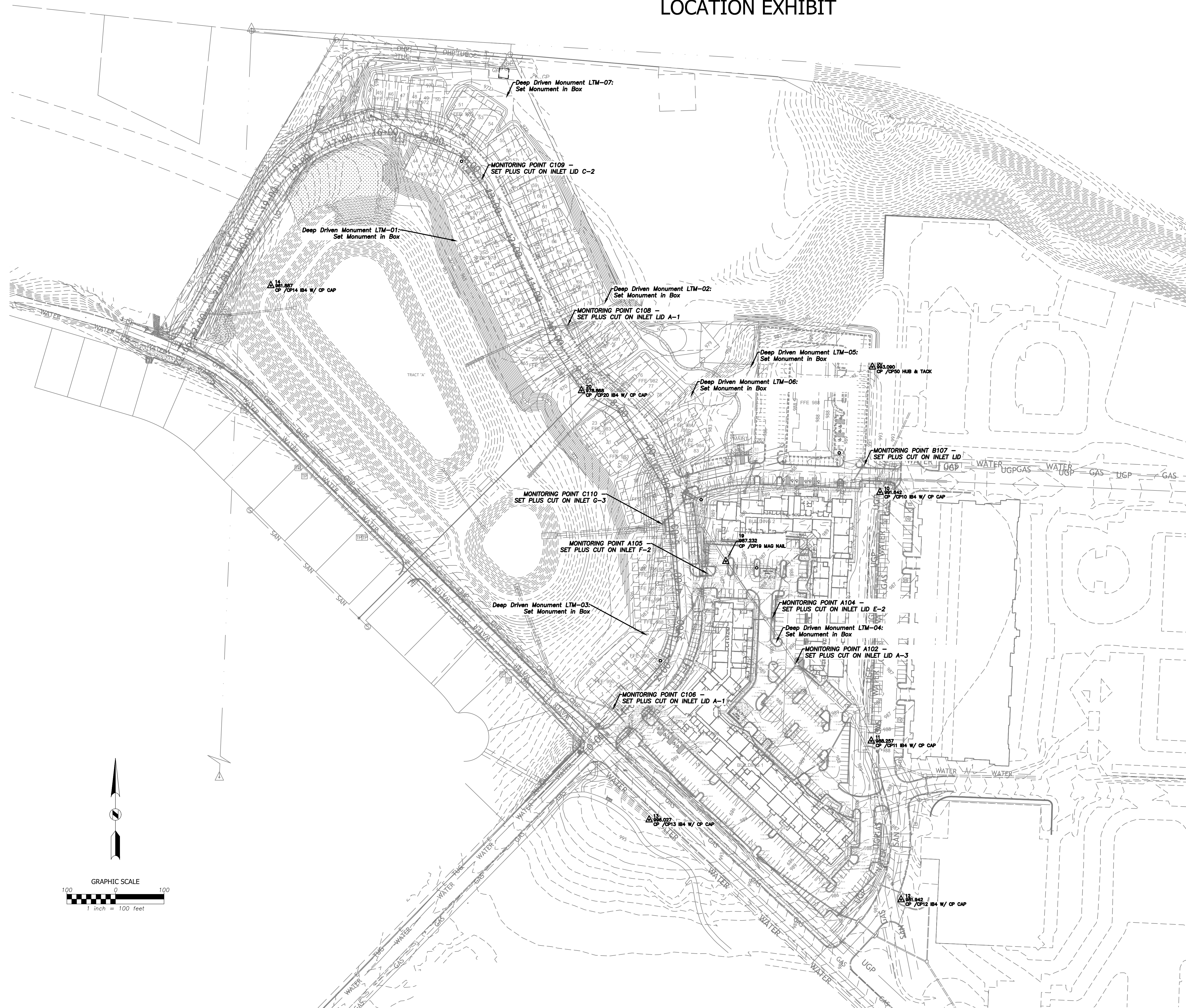
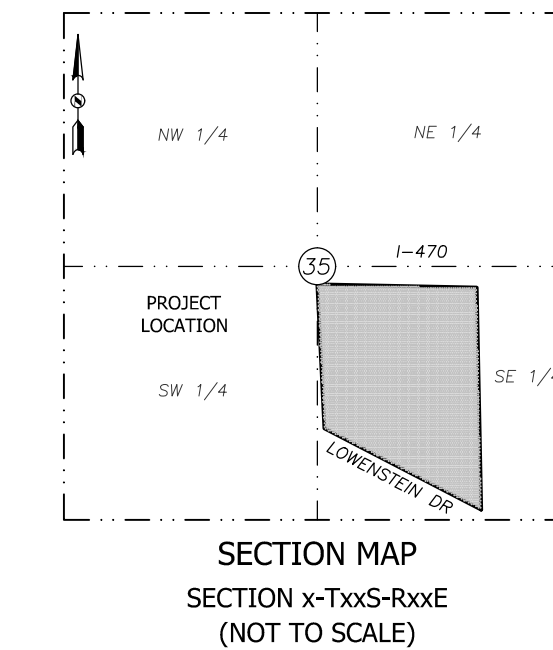
Respectfully submitted,

**TERRA STRUCTURES, LLC.**



Andrea Prince, P.G.  
Senior Project Manager

STREETS OF WEST PRYOR  
LONG TERM MONITORING  
LOCATION EXHIBIT



### GENERAL NOTES

1. Basis of Bearing: Initial Monitoring control was derived from GPS Static data collected on several of the Monitoring Control Points and submitted to OPUS for data processing. The OPUS provided data was referenced to the Missouri State Plane Coordinate System, West Zone (NAD83). The coordinates derived from this OPUS solutions were then adjusted to ground using the CAF from the Final Plat of "Streets of West Pryor Lots 1 thru 14, Tracts "A", "B", "C", and "D". Using the CAF from the above mentioned plat allows the monitoring points to be on a similar datum to the proposed site design. The ground coordinates were scaled from zero using the CAF of 0.999900084.
2. The monitoring control and the initial monitoring points were then traversed using a Trimble SX10 instrument and subsequently adjusted using MicroSurvey StarNet Version 9 software. A level run was run through control points 10 thru 13 to assist in establishing the initial monitoring control.
3. Base Line Control Points were intentionally placed off of the site in order to avoid placing them over areas of the mine that are currently being remediated.
4. This monitoring survey is based on field work completed on the date shown in the title block.
5. Monitoring points are labeled to indicate which section of mine remediation zone that they are closest to and a point number to assist in the survey monitoring. Example A100 = "A" indicates the "A" remediation zone and "100" is the survey point used while monitoring.
6. It has been indicated that some of the inlet lids will be moved during the progress of the construction. It has been requested that when the inlets are being adjusted that monitoring will be taken before and after the inlet has been adjusted in order to maintain a viable monitoring point that will be maintained through the monitoring term.
7. Long Term Monitoring Monuments are deep driven rods drilled into the bedrock below the surface with aluminum caps and located in Monument Boxes on the surface.
8. LTM-01 location is estimated. Monument location was relocated to help avoid possible future conflicts and it's current location has not been confirmed.

|                                                                                                                                                |              |                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--|
| Project:                                                                                                                                       |              | Client:                                                                             |  |
| Streets of West Pryor Monitoring Exhibit<br>Lots 7A, 7B, and 7C<br>Section 35, Township 48, Range 32<br>Lee's Summit, Jackson County, Missouri |              | Monarch Acquisitions LLC<br>Dave Olson<br>P.O. Box 24302<br>Overland Park, KS 66283 |  |
| Project No:                                                                                                                                    | 028440.00.01 |                                                                                     |  |
| Field Crew:                                                                                                                                    | MS, ET ALL   |                                                                                     |  |
| Field Date:                                                                                                                                    | 10/31/2022   |                                                                                     |  |
| Drawn By:                                                                                                                                      | MS           |                                                                                     |  |
| Issue Date:                                                                                                                                    | 12/06/2022   |                                                                                     |  |
| Sheet:                                                                                                                                         |              |                                                                                     |  |
| 1 OF 1                                                                                                                                         |              |                                                                                     |  |

# Streets of West Pryor Monitoring Spreadsheet

## Initial Monitoring Point Locations Points Set Oct. 12, 2021

## First Monitoring Results Dec. 12, 2021 Note: Differences Below Between Oct. 12, 2021 & Dec. 12, 2021

| Point # | Northing                 | Easting    | Elevation | Location  | Point #        | Northing<br>Difference | Easting<br>Difference | Elevation<br>Difference | Observed<br>Elevation | Location  |
|---------|--------------------------|------------|-----------|-----------|----------------|------------------------|-----------------------|-------------------------|-----------------------|-----------|
| 100     | 1006796.43               | 2812899.00 | 992.88    | Inlet     | 2100           | -0.03                  | 0.01                  | -0.04                   | 992.84                |           |
| 101     | 1006763.01               | 2812554.02 | 982.86    | Inlet B-1 | 2101           | -2.90                  | -2.00                 | 0.01                    | 982.87                |           |
| 102     | 1006414.57               | 2812733.04 | 987.35    | Inlet A-3 | 2102           | 1.55                   | -5.17                 | -0.02                   | 987.33                |           |
| 103     | 1006322.29               | 2812351.55 | 988.07    | Inlet A-1 | See Note Below |                        |                       |                         |                       |           |
|         | Value Greater than 0.08' |            |           |           | 104            | 1006511.50             | 2812680.58            | 987.40                  |                       | Inlet E-2 |
|         | Value Greater than 0.04' |            |           |           | 105            | 1006601.94             | 2812547.13            | 986.35                  |                       | Inlet F-2 |
|         | Value Greater than 0.02' |            |           |           | 106            | 1006319.59             | 2812353.76            | 988.24                  |                       | Inlet A-1 |

**Note:** Lid replaced and mark removed on Inlet A-1 after initial monitoring. Point's 104-106 above are new or replacement monitoring points on the site.

Inlet Lids on Structures B-1 and A-3 have been adjusted since the initial monitoring. The new location of points will now be monitored.

**Note:** Point's 10-14 on previous exhibits are Control Point's for monitoring and have been removed to simplify exhibit.

Point's 100-103 are monitoring points as shown on the exhibit.

Monitoring Point #100 is on an Inlet @ NE Corner of Site

Note: The certification on this exhibit is to verify that the horizontal and vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in the locations or elevations.



Streets of West Pryor Monitoring Spreadsheet

Second Monitoring Results  
Feb. 4, 2022

Note: Differences Below Between  
Oct. 12, 2021 & Feb. 4, 2022 (Point 100)  
Dec. 12, 2021 & Feb. 4, 2022 (Points 101, 102, & 104-106)

| Point # | Northing<br>Difference | Easting<br>Difference | Elevation<br>Difference | Observed<br>Elevation | Location  | Point # | Northing<br>Difference | Easting<br>Difference | Elevation<br>Difference | Observed<br>Elevation | Location  |
|---------|------------------------|-----------------------|-------------------------|-----------------------|-----------|---------|------------------------|-----------------------|-------------------------|-----------------------|-----------|
| 3100    | -0.04                  | -0.01                 | 0.01                    | 992.89                | Inlet     | 4100    | -0.03                  | -0.01                 | -0.04                   | 992.84                | Inlet     |
| 3101    | -0.03                  | -0.06                 | 0.06                    | 982.92                | Inlet B-1 | 4101    | -0.01                  | -0.39                 | 0.01                    | 982.87                | Inlet B-1 |
| 3102    | -0.02                  | -0.03                 | 0.02                    | 987.37                | Inlet A-3 | 4102    | -0.02                  | -0.01                 | 0.02                    | 987.33                | Inlet A-3 |
| 3104    | 0.00                   | -0.04                 | 0.04                    | 987.44                | Inlet E-2 | 4104    | 0.01                   | -0.08                 | 0.00                    | 987.40                | Inlet E-2 |
| 3105    | -0.04                  | -0.05                 | 0.06                    | 986.41                | Inlet F-2 | 4105    | 0.00                   | 0.01                  | 0.01                    | 986.36                | Inlet F-2 |
| 3106    | 0.02                   | -0.17                 | 0.04                    | 988.28                | Inlet A-1 | 4106    | 0.04                   | -0.10                 | -0.03                   | 988.21                | Inlet A-1 |

Note: Differences Below Between  
Dec. 12, 2021 & Feb. 4, 2022

|      |       |       |      |        |
|------|-------|-------|------|--------|
| 3100 | -0.01 | -0.02 | 0.05 | 992.89 |
| 3101 | -0.03 | -0.06 | 0.05 | 982.92 |
| 3102 | -0.02 | -0.03 | 0.04 | 987.37 |

Note: Differences Below Between  
Feb. 4, 2022 & March 2, 2022

|      |      |       |       |        |
|------|------|-------|-------|--------|
| 4100 | 0.01 | 0.00  | -0.05 | 992.84 |
| 4101 | 0.02 | -0.33 | -0.05 | 982.87 |
| 4102 | 0.00 | 0.02  | -0.04 | 987.33 |
| 4104 | 0.01 | -0.05 | -0.04 | 987.40 |
| 4105 | 0.05 | 0.06  | -0.05 | 986.36 |
| 4106 | 0.02 | 0.06  | -0.07 | 988.21 |

Note: The certification on this exhibit is to verify that the horizontal and vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in the locations or elevations.



# Streets of West Pryor Monitoring Spreadsheet

## Fourth Monitoring Results 4/8/2022

Note: Differences Below Between  
Dec. 12, 2021 & April 8, 2022

| Point #                                                             | Northing<br>Difference | Eastings<br>Difference | Elevation<br>Difference | Observed<br>Elevation | Location  |
|---------------------------------------------------------------------|------------------------|------------------------|-------------------------|-----------------------|-----------|
| Inlet Adjusted- Removed from Monitoring                             |                        |                        |                         |                       |           |
| 5102                                                                | -3.35                  | 1.84                   | 1.09                    | 988.44                | Inlet A-3 |
| Based on above results, Inlet A-3 has shifted since last monitoring |                        |                        |                         |                       |           |
| 5104                                                                | 0.00                   | -0.04                  | 0.04                    | 987.44                | Inlet E-2 |
| 5105                                                                | -0.01                  | -0.02                  | 0.02                    | 986.37                | Inlet F-2 |
| 5106                                                                | 0.02                   | -0.09                  | 0.00                    | 988.24                | Inlet A-1 |
| 107                                                                 | 1006824.68             | 2812868.80             | 990.01                  |                       | Inlet I-2 |
| 108                                                                 | 1007111.59             | 2812258.87             | 979.05                  |                       | Inlet A-1 |
| 109                                                                 | 1007411.19             | 2812081.44             | 975.28                  |                       | Inlet C-2 |
| 110                                                                 | 1006703.64             | 2812454.33             | 984.07                  |                       | Inlet G-3 |

Note: Point's 107-110 above are new  
or replacement monitoring points on the site.

## Note: Differences Below Between March 2, 2022 & April 8, 2022

|                                         |       |       |      |        |  |
|-----------------------------------------|-------|-------|------|--------|--|
| Inlet Adjusted- Removed from Monitoring |       |       |      |        |  |
| 5102                                    | -3.33 | 1.85  | 1.11 | 988.44 |  |
| 5104                                    | -0.01 | 0.04  | 0.04 | 987.44 |  |
| 5105                                    | -0.01 | -0.02 | 0.01 | 986.37 |  |
| 5106                                    | -0.03 | 0.02  | 0.03 | 988.24 |  |

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and vertical positions shown hereon were collected under my  
direct supervision. This certification does not intend to show anything  
other what is shown on the exhibit. We are not certifying  
any reason or cause for the differences in the locations or elevations



# Streets of West Pryor Monitoring Spreadsheet

## Fifth Monitoring Results

5/9/2022

Note: Differences Below Between

Dec. 12, 2021 & May 9, 2022 (Points 104 - 106)

April 8, 2022 & May 9, 2022 (Points 102 & 107 - 110)

| Point # | Northing   | Easting    | Elevation Difference | Observed Elevation | Location  |
|---------|------------|------------|----------------------|--------------------|-----------|
| 6102    | See Note   |            | 0.00                 | 988.44             | Inlet A-3 |
| 6104    | See Note   |            | 0.01                 | 987.41             | Inlet E-2 |
| 6105    | See Note   |            | 0.01                 | 986.36             | Inlet F-2 |
| 6106    | See Note   |            | 0.03                 | 988.27             | Inlet A-1 |
| 6107    | See Note   |            | -0.02                | 989.99             | Inlet I-2 |
| 6108    | See Note   |            | 0.03                 | 979.08             | Inlet A-1 |
| 6109    | See Note   |            | 0.00                 | 975.28             | Inlet C-2 |
| 6110    | See Note   |            | 0.00                 | 984.07             | Inlet G-3 |
| 111     | 1006482.19 | 2812485.01 | 986.12               |                    | Inlet F-4 |

Note: Point #111 is a new monitoring point.

Note: Differences Below Between

April 8, 2022 & May 9, 2022

|      |       |        |           |
|------|-------|--------|-----------|
| 6104 | -0.03 | 987.41 | Inlet E-2 |
| 6105 | -0.01 | 986.36 | Inlet F-2 |
| 6106 | 0.03  | 988.27 | Inlet A-1 |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.



Note: This monitoring exhibit represents a shift in the data collection method for the monitoring at the Streets of West Pryor site. Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.

# Streets of West Pryor Monitoring Spreadsheet

## Sixth Monitoring Results 6/8/2022

Note: Differences Below Between

Dec. 12, 2021 & June 8, 2022 (Point's 104-106)

April 8, 2022 & June 8, 2022 (Point's 102, 107-110)

May 9, 2022 & June 8, 2022 (Point #111)

| <u>Point #</u> | <u>Northing</u> | <u>Easting</u> | <u>Elevation<br/>Difference</u> | <u>Observed<br/>Elevation</u> | <u>Location</u> |
|----------------|-----------------|----------------|---------------------------------|-------------------------------|-----------------|
| 7102           |                 |                | 0.01                            | 988.45                        | Inlet A-3       |
| 7104           |                 |                | 0.02                            | 987.42                        | Inlet E-2       |
| 7105           |                 |                | 0.02                            | 986.37                        | Inlet F-2       |
| 7106           |                 |                | -0.02                           | 988.26                        | Inlet A-1       |
| 7107           |                 |                | -0.01                           | 990.00                        | Inlet I-2       |
| 7108           |                 |                | 0.01                            | 979.06                        | Inlet A-1       |
| 7109           |                 |                | -0.03                           | 975.25                        | Inlet C-2       |
| 7110           |                 |                | -0.02                           | 984.05                        | Inlet G-3       |
| 7111           |                 |                | -0.02                           | 986.10                        | Inlet F-4       |

Note: This monitoring exhibit continues a shift in the data collection method for the monitoring at the Streets of West Pryor site. Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.



## Note: Differences Below Between May 9, 2022 & June 8, 2022

|      |       |        |
|------|-------|--------|
| 7102 | 0.01  | 988.45 |
| 7104 | 0.01  | 987.42 |
| 7105 | 0.01  | 986.37 |
| 7106 | -0.01 | 988.26 |
| 7107 | 0.01  | 990.00 |
| 7108 | -0.02 | 979.06 |
| 7109 | -0.03 | 975.25 |
| 7110 | -0.02 | 984.05 |
| 7111 | -0.02 | 986.10 |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.

# Streets of West Pryor Monitoring Spreadsheet

## Seventh Monitoring Results

7/21/2022

Note: Differences Below Between

Dec. 12, 2021 & July 21, 2022 (Point's 104-106)

April 8, 2022 & July 21, 2022 (Point's 102, 107-110)

May 9, 2022 & July 21, 2022 (Point #111)

| Point # | North | East                    | Elevation<br>Difference | Observed<br>Elevation | Location  |
|---------|-------|-------------------------|-------------------------|-----------------------|-----------|
| 8102    |       |                         | 0.03                    | 988.47                | Inlet A-3 |
| 8104    |       |                         | 0.05                    | 987.45                | Inlet E-2 |
| 8105    |       |                         | 0.04                    | 986.39                | Inlet F-2 |
| 8106    |       | Inlet covered with fill |                         |                       | Inlet A-1 |
| 8107    |       |                         | -0.03                   | 989.98                | Inlet I-2 |
| 8108    |       |                         | 0.01                    | 979.06                | Inlet A-1 |
| 8109    |       |                         | -0.02                   | 975.26                | Inlet C-2 |
| 8110    |       |                         | -0.05                   | 984.02                | Inlet G-3 |
| 8111    |       |                         | -0.02                   | 986.10                | Inlet F-4 |

Note: This monitoring exhibit continues a shift in the data collection method for the monitoring at the Streets of West Pryor site. Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.



Note: Differences Below Between

June 8, 2022 & July 21, 2022

|      |  |                         |       |        |           |
|------|--|-------------------------|-------|--------|-----------|
| 8102 |  |                         | 0.02  | 988.47 | Inlet A-3 |
| 8104 |  |                         | -0.03 | 987.45 | Inlet E-2 |
| 8105 |  |                         | 0.02  | 986.39 | Inlet F-2 |
| 8106 |  | Inlet covered with fill |       |        | Inlet A-1 |
| 8107 |  |                         | -0.02 | 989.98 | Inlet I-2 |
| 8108 |  |                         | 0.00  | 979.06 | Inlet A-1 |
| 8109 |  |                         | 0.01  | 975.26 | Inlet C-2 |
| 8110 |  |                         | -0.03 | 984.02 | Inlet G-3 |
| 8111 |  |                         | 0.00  | 986.10 | Inlet F-4 |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.

Streets of West Pryor Monitoring Spreadsheet

Eighth Monitoring Results

9/14/2022

Note: Differences Below Between

Dec. 12, 2021 & Sept 14, 2022 (Point's 104-106)

April 8, 2022 & Sept 14, 2022 (Point's 102, 107-110)

May 9, 2022 & Sept 14, 2022 (Point #111)

| Point # | Northing | Easting                                  | Elevation<br>Difference | Observed<br>Elevation | Location  |
|---------|----------|------------------------------------------|-------------------------|-----------------------|-----------|
| 9102    |          |                                          | 0.01                    | 988.45                | Inlet A-3 |
| 9104    |          |                                          | 0.03                    | 987.43                | Inlet E-2 |
| 9105    |          |                                          | 0.04                    | 986.39                | Inlet F-2 |
|         |          | Inlet covered with fill                  |                         |                       | Inlet A-1 |
| 9107    |          |                                          | -0.03                   | 989.98                | Inlet I-2 |
| 9108    |          |                                          | 0.01                    | 979.06                | Inlet A-1 |
|         |          | Inlet covered with Construction Supplies |                         |                       | Inlet C-2 |
| 9110    |          |                                          | -0.06                   | 984.01                | Inlet G-3 |
| 9111    |          |                                          | -0.02                   | 986.10                | Inlet F-4 |

Note: Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.

Note: Differences Below Between

July 21, 2022 & Sept 14, 2022

|      |  |                                          |       |        |           |
|------|--|------------------------------------------|-------|--------|-----------|
| 9102 |  |                                          | -0.02 | 988.45 | Inlet A-3 |
| 9104 |  |                                          | -0.02 | 987.43 | Inlet E-2 |
| 9105 |  |                                          | 0.00  | 986.39 | Inlet F-2 |
|      |  | Inlet covered with fill                  |       |        | Inlet A-1 |
| 9107 |  |                                          | 0.00  | 989.98 | Inlet I-2 |
| 9108 |  |                                          | 0.00  | 979.06 | Inlet A-1 |
|      |  | Inlet covered with Construction Supplies |       |        | Inlet C-2 |
| 9110 |  |                                          | -0.01 | 984.01 | Inlet G-3 |
| 9111 |  |                                          | 0.00  | 986.10 | Inlet F-4 |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.



**Ninth Monitoring Results  
10/31/2022**

**Note : Differences Below Between  
Dec. 12, 2021 & Oct 31, 2022 (Point's 104-106)  
April 8, 2022 & Oct 31, 2022 (Point's 102, 107-110)  
May 9, 2022 & Oct 31, 2022 (Point #111)**

| <u>Point #</u> | <u>Elevation<br/>Difference</u> | <u>Observed<br/>Elevation</u> | <u>Location</u> |
|----------------|---------------------------------|-------------------------------|-----------------|
| 10102          | 0.01                            | 988.45                        | Inlet A-3       |
| 10104          | 0.04                            | 987.44                        | Inlet E-2       |
| 10105          | 0.04                            | 986.39                        | Inlet F-2       |
|                |                                 |                               | Inlet A-1       |
| 10107          | 0.10                            | 990.11                        | Inlet I-2       |
| 10108          | 0.00                            | 979.05                        | Inlet A-1       |
| 10109          | -0.02                           | 975.26                        | Inlet C-2       |
| 10110          | -0.07                           | 984.00                        | Inlet G-3       |
| 10111          | -0.03                           | 986.09                        | Inlet F-4       |

Note: Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.

**Note: Differences Below Between  
Sept 14, 2022 & Oct 31, 2022 (Except #109; July 21, 2022 & Oct 31, 2022)**

|       |       |        |
|-------|-------|--------|
| 10102 | 0.00  | 988.45 |
| 10104 | 0.01  | 987.44 |
| 10105 | 0.00  | 986.39 |
| 10107 | 0.13  | 990.11 |
| 10108 | -0.01 | 979.05 |
| 10109 | 0.00  | 975.26 |
| 10110 | -0.01 | 984.00 |
| 10111 | -0.01 | 986.09 |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.

**Long Term Monitoring Monuments**

|                            |        |        |
|----------------------------|--------|--------|
|                            | 975.06 | LTM-01 |
| Initial Elevation Readings | 977.87 | LTM-02 |
| Shown at Right             | 987.88 | LTM-03 |
|                            | 987.51 | LTM-04 |
|                            | 985.19 | LTM-05 |
|                            | 982.01 | LTM-06 |
|                            | 971.82 | LTM-07 |

Note: New Elevation of LTM-03 from found calculation error.



# **Tenth Monitoring Results**

**1/5/2023**

**Note : Differences Below Between  
Dec. 12, 2021 & Jan 5, 2023 (Point's 104-106)  
April 8, 2022 & Jan 5, 2023 (Point's 102, 107-110)  
May 9, 2022 & Jan 5, 2023 (Point #111)**

| <u>Point #</u> | <u>Elevation<br/>Difference</u> | <u>Observed<br/>Elevation</u> | <u>Location</u> |
|----------------|---------------------------------|-------------------------------|-----------------|
| 10102          | 0.00                            | 988.44                        | Inlet A-3       |
| 10104          | 0.02                            | 987.42                        | Inlet E-2       |
| 10105          | 0.02                            | 986.37                        | Inlet F-2       |
|                |                                 |                               | Inlet A-1       |
| 10107          | Inlet covered by Equipment      |                               | Inlet I-2       |
| 10108          | -0.01                           | 979.04                        | Inlet A-1       |
| 10109          | -0.02                           | 975.26                        | Inlet C-2       |
| 10110          | -0.11                           | 983.96                        | Inlet G-3       |
| 10111          | -0.03                           | 986.09                        | Inlet F-4       |

Note: Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.

**Note: Differences Below Between  
Oct 31, 2022 & Jan 5, 2023(Except #109; July 21, 2022 & Jan 5, 2023)**

|       |                            |        |
|-------|----------------------------|--------|
| 10102 | -0.01                      | 988.44 |
| 10104 | -0.02                      | 987.42 |
| 10105 | -0.02                      | 986.37 |
| 10107 | Inlet covered by Equipment |        |
| 10108 | -0.01                      | 979.04 |
| 10109 | 0.00                       | 975.26 |
| 10110 | -0.04                      | 983.96 |
| 10111 | 0.00                       | 986.09 |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.

## **Long Term Monitoring Monuments**

**Note: Differences Below Between  
Oct 31, 2022 & Jan 5, 2023**

|                        |       |        |        |
|------------------------|-------|--------|--------|
|                        | 0.00  | 975.06 | LTM-01 |
|                        | -0.01 | 977.86 | LTM-02 |
|                        | -0.01 | 987.87 | LTM-03 |
|                        | -0.02 | 987.49 | LTM-04 |
|                        | 0.01  | 985.20 | LTM-05 |
| Disturbed, Needs Reset |       |        | LTM-06 |
|                        | 0.00  | 971.82 | LTM-07 |



# Eleventh Monitoring Results

3/9/2023

Note : Differences Below Between

Dec. 12, 2021 & March 9, 2023 (Point's 104-106)

April 8, 2022 & March 9, 2023 (Point's 102, 107-110)

May 9, 2022 & March 9, 2023 (Point #111)

| <u>Point #</u> | <u>Elevation Difference</u> | <u>Observed Elevation</u> | <u>Location</u> |
|----------------|-----------------------------|---------------------------|-----------------|
| 10102          | 0.00                        | 988.44                    | Inlet A-3       |
| 10104          | 0.02                        | 987.42                    | Inlet E-2       |
| 10105          | 0.03                        | 986.38                    | Inlet F-2       |
|                |                             |                           | Inlet A-1       |
| 10107          | 0.08                        | 990.09                    | Inlet I-2       |
| 10108          | -0.01                       | 979.04                    | Inlet A-1       |
| 10109          | -0.05                       | 975.23                    | Inlet C-2       |
| 10110          | -0.11                       | 983.96                    | Inlet G-3       |
| 10111          | -0.02                       | 986.10                    | Inlet F-4       |

Note: The certification on this exhibit is to verify the vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in elevations.

Note: Differences Below Between

Jan 5, 2023 & March 9, 2023

|       |       |        |           |
|-------|-------|--------|-----------|
| 10102 | 0.00  | 988.44 | Inlet A-3 |
| 10104 | 0.00  | 987.42 | Inlet E-2 |
| 10105 | 0.01  | 986.38 | Inlet F-2 |
|       |       |        | Inlet A-1 |
| 10107 |       | 990.09 | Inlet I-2 |
| 10108 | 0.00  | 979.04 | Inlet A-1 |
| 10109 | -0.03 | 975.23 | Inlet C-2 |
| 10110 | 0.00  | 983.96 | Inlet G-3 |
| 10111 | 0.01  | 986.10 | Inlet F-4 |



## Long Term Monitoring Monuments

Note: Differences Below Between

Oct 31, 2022 & March 9, 2023

Jan 5, 2023 & March 9, 2023

Elevation Difference

Elevation Difference

|       |        |        |
|-------|--------|--------|
| -0.02 | 975.04 | LTM-01 |
| -0.01 | 977.86 | LTM-02 |
| 0.00  | 987.88 | LTM-03 |
| -0.02 | 987.49 | LTM-04 |
| -0.01 | 985.18 | LTM-05 |
| -0.02 | 981.99 | LTM-06 |
| -0.03 | 971.79 | LTM-07 |

Disturbed, Reset

-0.03



Monitoring Point Displacement Summary  
Streets West of Pryor  
Lee's Summit Missouri

Displacement for A100

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                                      |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|----------------------------------------------|
| 10/12/2021 | NA                    | 992.88         | NA                | NA                    | NA                          | NA           |                                              |
| 12/12/2021 | -0.03                 | 992.84         | 0.17              | -0.48                 | -0.48                       | -2.87        |                                              |
| 2/4/2022   | -0.01                 | 992.89         | 0.15              | 0.60                  | 0.12                        | 4.06         |                                              |
| 3/2/2022   | 0.01                  | 992.84         | 0.07              | -0.60                 | -0.48                       | -8.42        | Inlet point moved, new baseline set          |
| 4/8/2022   | #N/A                  | #N/A           | #N/A              | #N/A                  | #N/A                        | #N/A         | Monitor point removed due to adjusting inlet |

Displacement for A101

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                                      |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|----------------------------------------------|
| 10/12/2021 | NA                    | 982.86         | NA                | NA                    | NA                          | NA           |                                              |
| 12/12/2021 | 0.01                  | 982.87         | 0.17              | 0.12                  | 0.12                        | 0.72         | Inlet lid adjusted after initial monitoring  |
| 2/4/2022   | 0.05                  | 982.92         | 0.15              | 0.60                  | 0.72                        | 4.06         |                                              |
| 3/2/2022   | -0.05                 | 982.87         | 0.07              | -0.60                 | 0.12                        | -8.42        | Inlet point moved, new baseline set          |
| 4/8/2022   | #N/A                  | #N/A           | #N/A              | #N/A                  | #N/A                        | NA           | Monitor point removed due to adjusting inlet |

Displacement for A102

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                                     |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|---------------------------------------------|
| 10/12/2021 | NA                    | 987.35         | NA                | NA                    | NA                          | NA           |                                             |
| 12/12/2021 | -0.02                 | 987.33         | 0.17              | -0.24                 | -0.24                       | -1.44        | Inlet lid adjusted after initial monitoring |
| 2/4/2022   | 0.04                  | 987.37         | 0.15              | 0.48                  | 0.24                        | 3.24         |                                             |
| 3/2/2022   | -0.04                 | 987.33         | 0.07              | -0.48                 | -0.24                       | -6.74        | Inlet point moved, new baseline set         |
| 4/8/2022   | 1.11                  | 988.44         | 0.10              | 13.32                 | 13.08                       | 131.40       | Inlet A-3 shifted since last monitoring     |
| 5/9/2022   | 0.00                  | 988.44         | 0.08              | 0.00                  | 13.08                       | 0.00         | Switch to vertical monitoring only          |
| 6/8/2022   | 0.01                  | 988.45         | 0.08              | 0.12                  | 13.20                       | 1.46         |                                             |
| 7/21/2022  | 0.02                  | 988.47         | 0.12              | 0.24                  | 13.44                       | 2.04         |                                             |
| 9/14/2022  | -0.02                 | 988.45         | 0.15              | -0.24                 | 13.20                       | -1.59        |                                             |
| 10/31/2022 | 0                     | 988.45         | 0.13              | 0.00                  | 13.20                       | 0.00         |                                             |
| 1/5/2023   | -0.01                 | 988.44         | 0.18              | -0.12                 | 13.08                       | -0.66        |                                             |

Displacement for C103

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                          |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|----------------------------------|
| 10/12/2021 | NA                    | NA             | NA                | NA                    | NA                          | NA           |                                  |
| 12/12/2021 | NA                    | NA             | NA                | NA                    | NA                          | NA           | Removed after initial monitoring |

Displacement for A104

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                             |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------------------|
| 12/12/2021 | NA                    | 987.40         | #N/A              | #N/A                  | #N/A                        | #N/A         |                                     |
| 2/4/2022   | 0.04                  | 987.44         | 0.15              | 0.48                  | 0.48                        | 3.24         |                                     |
| 3/2/2022   | -0.04                 | 987.40         | 0.07              | -0.48                 | 0.00                        | -6.74        | Inlet point moved, new baseline set |
| 4/8/2022   | 0.04                  | 987.44         | 0.10              | 0.48                  | 0.48                        | 4.74         |                                     |
| 5/9/2022   | -0.03                 | 987.41         | 0.08              | -0.36                 | 0.12                        | -4.24        | Switch to vertical monitoring only  |
| 6/8/2022   | 0.01                  | 987.42         | 0.08              | 0.12                  | 0.24                        | 1.46         |                                     |
| 7/21/2022  | 0.03                  | 987.45         | 0.12              | 0.36                  | 0.60                        | 3.06         |                                     |
| 9/14/2022  | -0.02                 | 987.43         | 0.15              | -0.24                 | 0.36                        | -1.59        |                                     |
| 10/31/2022 | 0.01                  | 987.44         | 0.13              | 0.12                  | 0.48                        | 0.93         |                                     |
| 1/5/2023   | -0.02                 | 987.42         | 0.18              | -0.24                 | 0.24                        | -1.33        |                                     |



**Monitoring Point Displacement Summary**  
**Streets West of Pryor**  
**Lee's Summit Missouri**

**Displacement for A105**

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                             |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------------------|
| 12/12/2021 | NA                    | 986.35         | NA                | NA                    | NA                          | NA           |                                     |
| 2/4/2022   | 0.06                  | 986.41         | 0.15              | 0.72                  | 0.72                        | 4.87         |                                     |
| 3/2/2022   | -0.05                 | 986.36         | 0.07              | -0.60                 | 0.12                        | -8.42        | Inlet point moved, new baseline set |
| 4/8/2022   | 0.01                  | 986.37         | 0.10              | 0.12                  | 0.24                        | 1.18         |                                     |
| 5/9/2022   | -0.01                 | 986.36         | 0.08              | -0.12                 | 0.12                        | -1.41        | Switch to vertical monitoring only  |
| 6/8/2022   | 0.01                  | 986.37         | 0.08              | 0.12                  | 0.24                        | 1.46         |                                     |
| 7/21/2022  | 0.02                  | 986.39         | 0.12              | 0.24                  | 0.48                        | 2.04         |                                     |
| 9/14/2022  | 0.00                  | 986.39         | 0.15              | 0.00                  | 0.48                        | 0.00         |                                     |
| 10/31/2022 | 0                     | 986.39         | 0.13              | 0.00                  | 0.48                        | 0.00         |                                     |
| 1/5/2023   | -0.02                 | 986.37         | 0.18              | -0.24                 | 0.24                        | -1.33        |                                     |

**Displacement for C106**

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                             |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------------------|
| 12/12/2021 | NA                    | 988.24         | NA                | NA                    | NA                          | NA           |                                     |
| 2/4/2022   | 0.04                  | 988.28         | 0.15              | 0.48                  | 0.48                        | 3.24         |                                     |
| 3/2/2022   | -0.07                 | 988.21         | 0.07              | -0.84                 | -0.36                       | -11.79       | Inlet point moved, new baseline set |
| 4/8/2022   | 0.03                  | 988.24         | 0.10              | 0.36                  | 0.00                        | 3.55         |                                     |
| 5/9/2022   | 0.03                  | 988.27         | 0.08              | 0.36                  | 0.36                        | 4.24         | Switch to vertical monitoring only  |
| 6/8/2022   | -0.01                 | 988.26         | 0.08              | -0.12                 | 0.24                        | -1.46        |                                     |
| 7/21/2022  | NA                    | NA             | NA                | NA                    | NA                          | NA           | Inlet covered with fill             |
| 9/14/2022  | NA                    | NA             | NA                | NA                    | NA                          | NA           | Inlet covered with fill             |
| 10/31/2022 | NA                    | NA             | NA                | NA                    | NA                          | NA           | Inlet covered with fill             |

**Displacement for B107**

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                                 |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-----------------------------------------|
| 4/8/2022   | NA                    | 990.01         | NA                | NA                    | NA                          | NA           |                                         |
| 5/9/2022   | -0.02                 | 989.99         | 0.08              | -0.24                 | -0.24                       | -2.83        | Switch to vertical monitoring only      |
| 6/8/2022   | 0.01                  | 990.00         | 0.08              | 0.12                  | -0.12                       | 1.46         |                                         |
| 7/21/2022  | -0.02                 | 989.98         | 0.12              | -0.24                 | -0.36                       | -2.04        |                                         |
| 9/14/2022  | 0.00                  | 989.98         | 0.15              | 0.00                  | -0.36                       | 0.00         |                                         |
| 10/31/2022 | 0.13                  | 990.11         | 0.13              | 1.56                  | 1.20                        | 12.11        | Broken concrete curbs around inlet      |
| 1/5/2023   | -0.01                 | 990.10         | 0.18              | -0.12                 | 1.08                        | -0.66        | Covered by Equip. Avg 10/31/22 & 3/9/23 |
| 3/9/2023   | -0.01                 | 990.09         | 0.17              | -0.12                 | 0.96                        | -0.70        |                                         |

**Displacement for C108**

| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                            |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|------------------------------------|
| 4/8/2022   | NA                    | 979.05         | NA                | NA                    | NA                          | NA           |                                    |
| 5/9/2022   | 0.03                  | 979.08         | 0.08              | 0.36                  | 0.36                        | 4.24         | Switch to vertical monitoring only |
| 6/8/2022   | -0.02                 | 979.06         | 0.08              | -0.24                 | 0.12                        | -2.92        |                                    |
| 7/21/2022  | 0.00                  | 979.06         | 0.12              | 0.00                  | 0.12                        | 0.00         |                                    |
| 9/14/2022  | 0.00                  | 979.06         | 0.15              | 0.00                  | 0.12                        | 0.00         |                                    |
| 10/31/2022 | -0.01                 | 979.05         | 0.13              | -0.12                 | 0.00                        | -0.93        |                                    |
| 1/5/2023   | -0.01                 | 979.04         | 0.18              | -0.12                 | -0.12                       | -0.66        |                                    |
| 3/9/2023   | 0.00                  | 979.04         | 0.17              | 0.00                  | -0.12                       | 0.00         |                                    |

**Displacement for C109**

| Date     | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|----------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|---------|
| 4/8/2022 | NA                    | 975.28         | NA                | NA                    | NA                          | NA           |         |



**Monitoring Point Displacement Summary**  
**Streets West of Pryor**  
**Lee's Summit Missouri**

|            |       |        |      |       |       |       |                                          |
|------------|-------|--------|------|-------|-------|-------|------------------------------------------|
| 5/9/2022   | 0     | 975.28 | 0.08 | 0.00  | 0.00  | 0.00  | Switch to vertical monitoring only       |
| 6/8/2022   | -0.03 | 975.25 | 0.08 | -0.36 | -0.36 | -4.38 |                                          |
| 7/21/2022  | 0.01  | 975.26 | 0.12 | 0.12  | -0.24 | 1.02  |                                          |
| 9/14/2022  | 0     | 975.26 | 0.15 | 0.00  | -0.24 | 0.00  | Inlet covered with construction supplies |
| 10/31/2022 | 0     | 975.26 | 0.13 | 0.00  | -0.24 | 0.00  | Construciton supplies removed            |
| 1/5/2023   | 0     | 975.26 | 0.18 | 0.00  | -0.24 | 0.00  |                                          |
| 3/9/2023   | -0.03 | 975.23 | 0.17 | -0.36 | -0.60 | -2.09 |                                          |

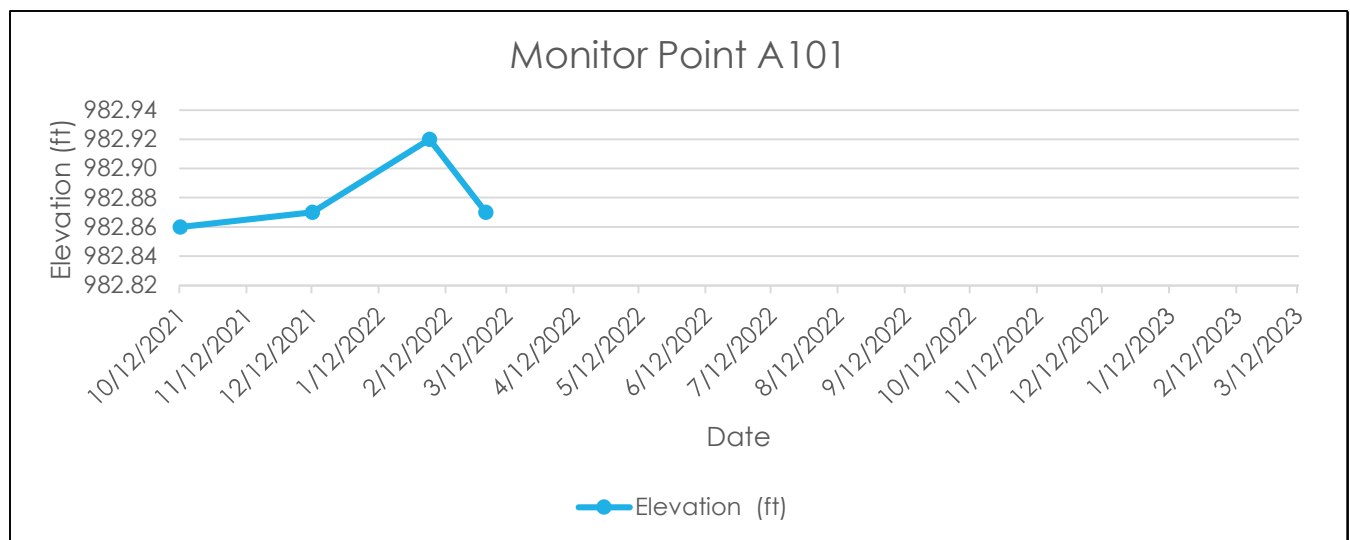
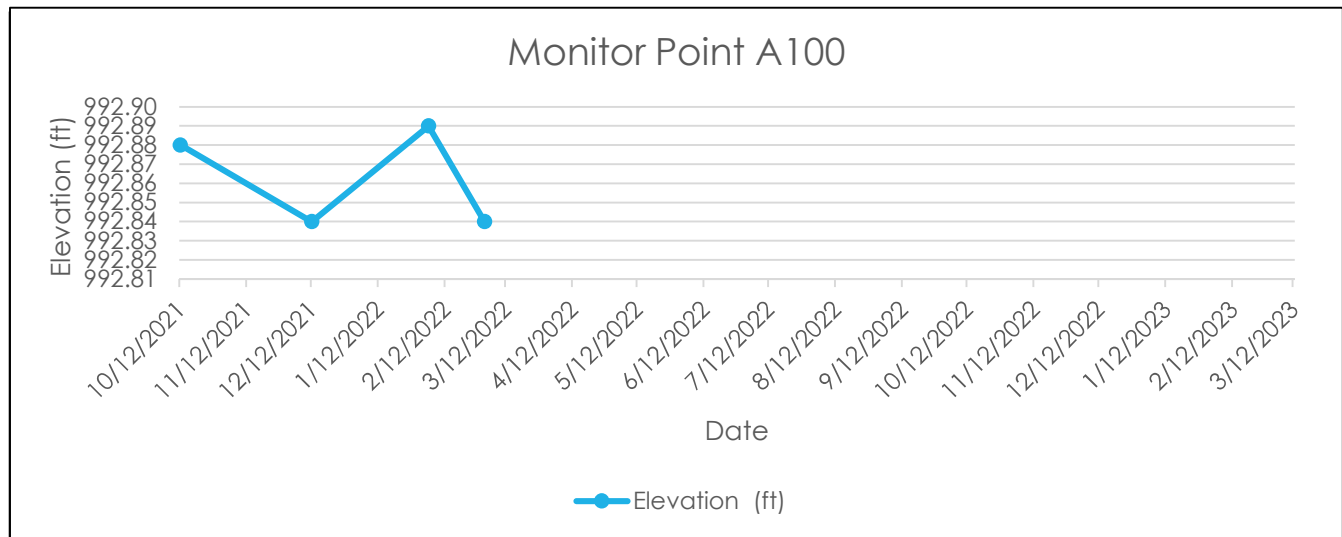
**Displacement for C110**

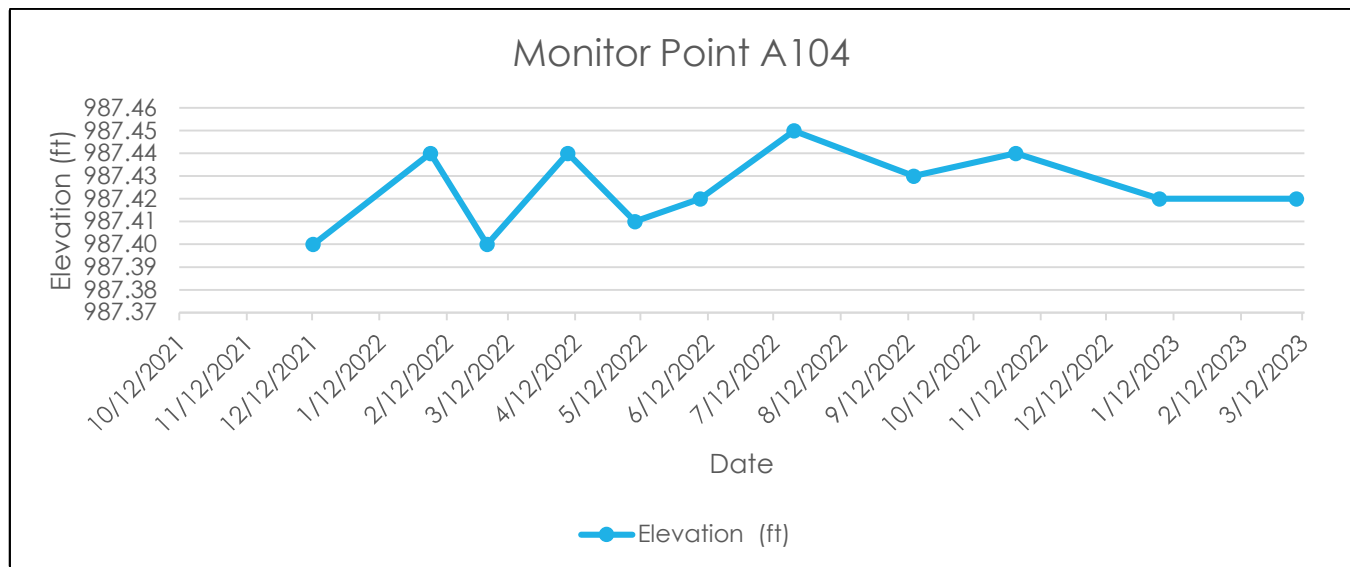
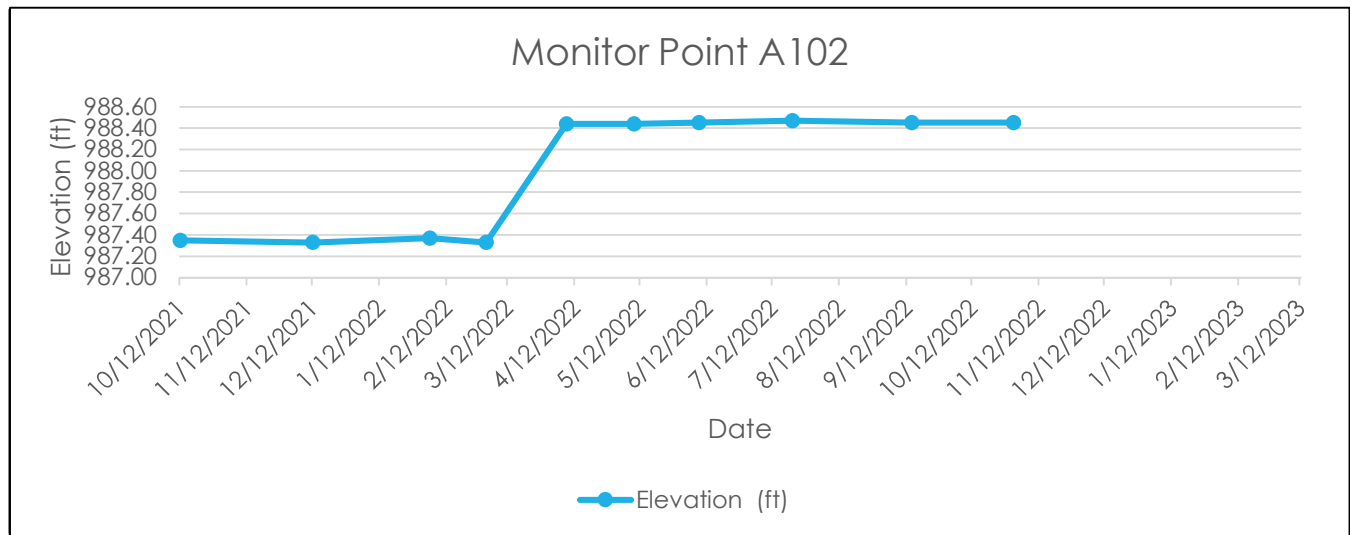
| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                            |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|------------------------------------|
| 4/8/2022   | NA                    | 984.07         | NA                | NA                    | NA                          | NA           |                                    |
| 5/9/2022   | 0                     | 984.07         | 0.08              | 0.00                  | 0.00                        | 0.00         | Switch to vertical monitoring only |
| 6/8/2022   | -0.02                 | 984.05         | 0.08              | -0.24                 | -0.24                       | -2.92        |                                    |
| 7/21/2022  | -0.03                 | 984.02         | 0.12              | -0.36                 | -0.60                       | -3.06        |                                    |
| 9/14/2022  | -0.01                 | 984.01         | 0.15              | -0.12                 | -0.72                       | -0.80        |                                    |
| 10/31/2022 | -0.01                 | 984.00         | 0.13              | -0.12                 | -0.84                       | -0.93        |                                    |
| 1/5/2023   | -0.04                 | 983.96         | 0.18              | -0.48                 | -1.32                       | -2.65        |                                    |
| 3/9/2023   | 0                     | 983.96         | 0.17              | 0.00                  | -1.32                       | 0.00         |                                    |

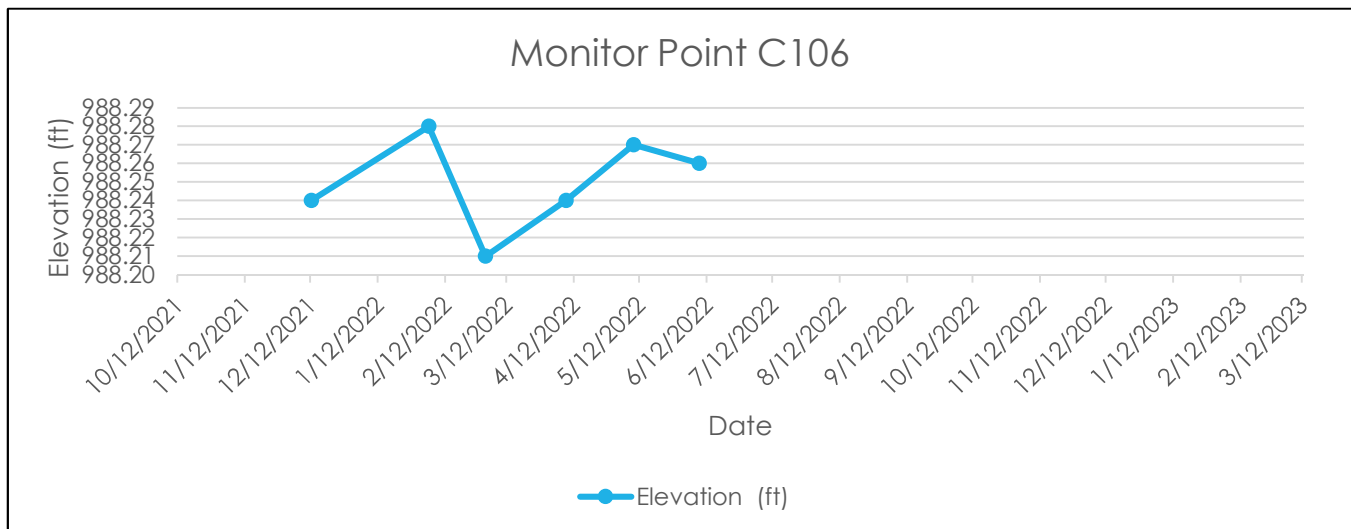
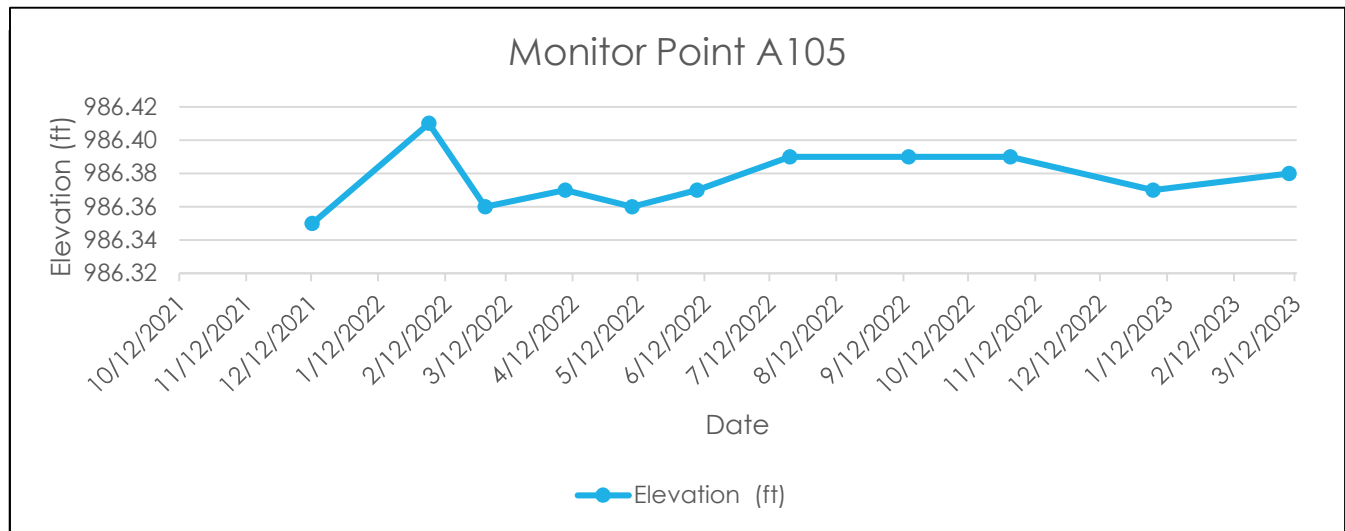
**Displacement for C111**

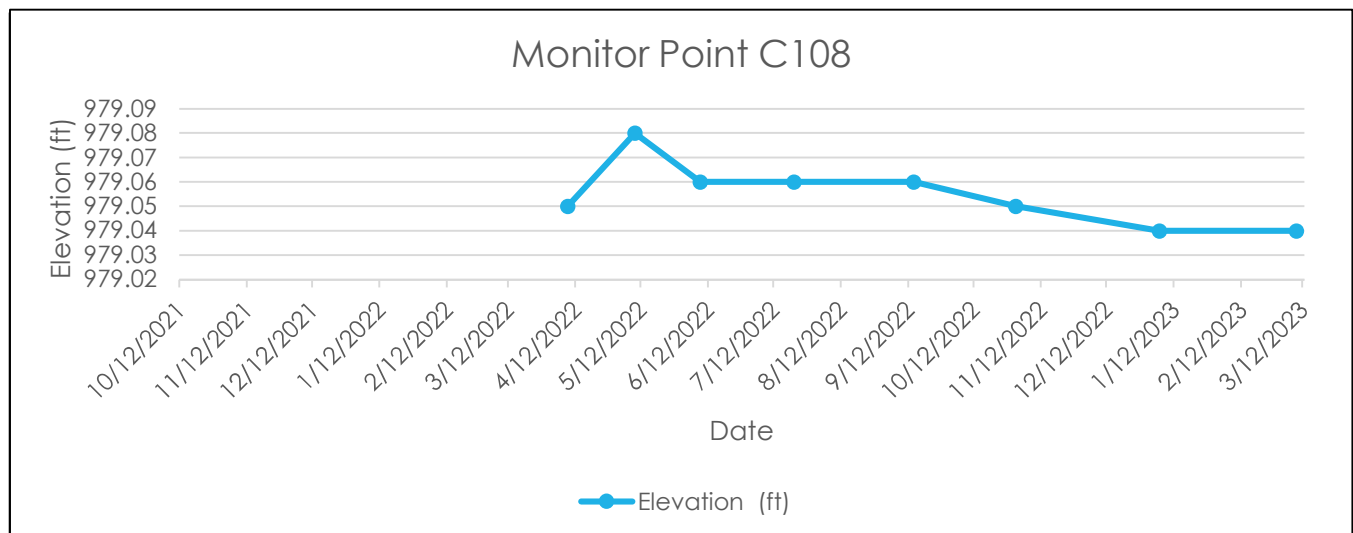
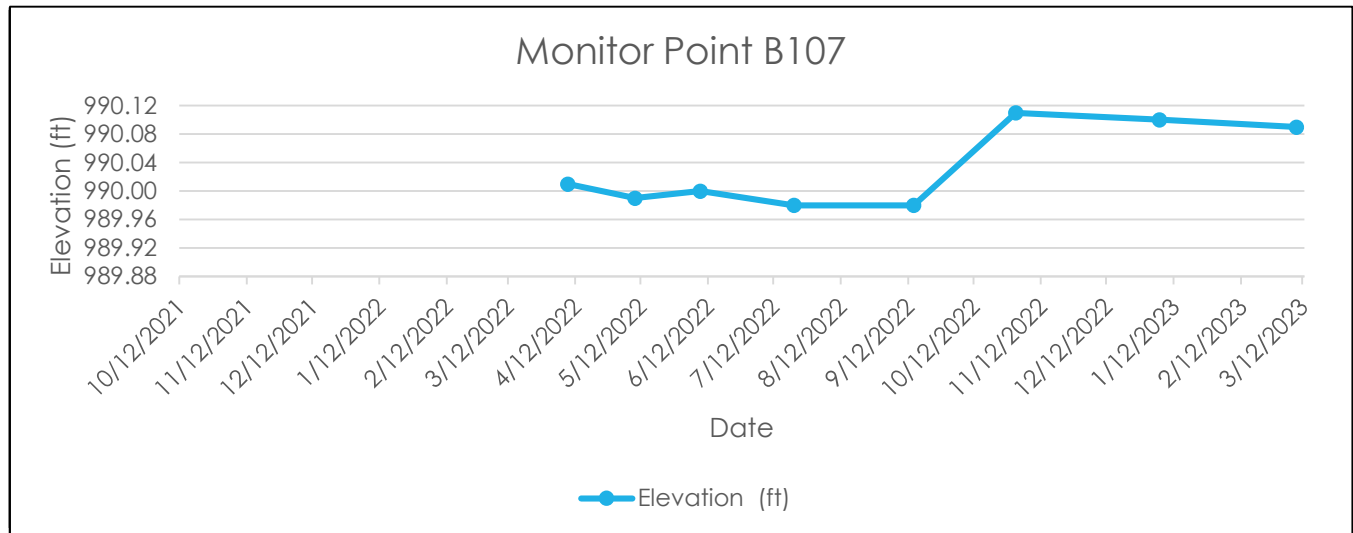
| Date       | Elevation Change (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks                 |
|------------|-----------------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------|
| 5/9/2022   | NA                    | 986.12         | NA                | NA                    | NA                          | NA           | Monitor point installed |
| 6/8/2022   | -0.02                 | 986.10         | 0.08              | -0.24                 | -0.24                       | -2.92        |                         |
| 7/21/2022  | 0.00                  | 986.10         | 0.12              | 0.00                  | -0.24                       | 0.00         |                         |
| 9/14/2022  | 0.00                  | 986.10         | 0.15              | 0.00                  | -0.24                       | 0.00         |                         |
| 10/31/2022 | -0.01                 | 986.09         | 0.13              | -0.12                 | -0.36                       | -0.93        |                         |
| 1/5/2023   | 0.00                  | 986.09         | 0.18              | 0.00                  | -0.36                       | 0.00         |                         |
| 3/9/2023   | 0.01                  | 986.10         | 0.17              | 0.12                  | -0.24                       | 0.70         |                         |

\*Negative values indicate a decrease in elevation

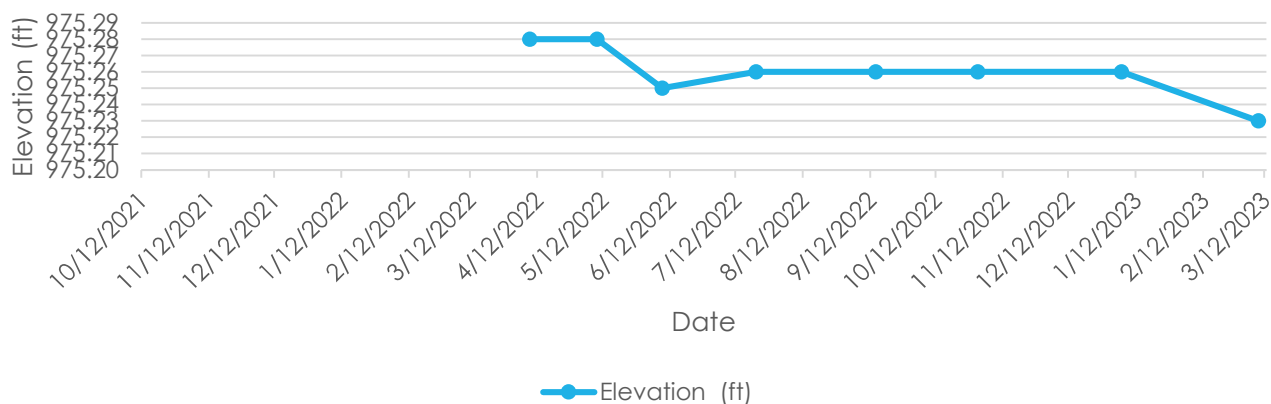








Monitor Point C109



Monitor Point C110

