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March 6, 2024

Andrea Klopfenstein, P.E.  
Deputy Director – City Engineer  
City of Peoria Public Works Department  
3505 N. Dries Lane  
Peoria, IL 61604

Re: Review of Storm Water Samples Collected for the Separate Storm Sewer System –  
MS4 Permit for Calendar Year 2023

Dear Andrea Klopfenstein:

The following is a summary report for storm water samples collected in 2023 from Sampling Points P1 through P4 (Summary Report). Included in this Summary Report are:

- ◆ Goals of the MS4 Permit, Sampling Point Location and Descriptions
- ◆ Summary of Procedures Utilized to Collect Storm Water Samples
- ◆ Analytical Data Summary, Including Trends and Potential Areas of Concern
- ◆ Figure showing Sampling Point Locations
- ◆ Laboratory Analytical Data

## **Goals of the MS4 Permit, Sampling Point Location and Descriptions**

Four sampling locations (P1 through P4) were selected to meet requirements of the MS4 Permit and determine whether surface water quality is improving, remaining stable, or decreasing. The sampling point locations are located outside of the known Combined Sewer Overflows (CSO) system and storm water flowing within the City of Peoria (City) boundaries. Sampling Point P1 is located the farthest to the north and encompasses a mix of residential, industrial, and commercial properties. Sampling Point P2 covers the northwest and some of the middle parts of the City with a mix of residential, commercial, and industrial properties. Sampling Point P3 is a mix of residential and commercial properties, and Sampling Point P4 encompasses the eastern portions of the City and is predominately residential. The four sampling point locations are shown on attached Figure 1.

## **Summary of Procedures Utilized to Collect Storm Water Samples**

Per General National Pollutant Discharge Elimination System (NPDES) Permit ILR40, storm water samples must be collected within 48 hours of a precipitation event greater than or equal to 0.25 inch of precipitation in a 24-hour period. Only one storm water grab sample per location is required to be collected per quarter. If there is insufficient precipitation during a quarter, storm water samples are not collected. Storm water samples were collected every quarter in 2023.

## **Analytical Data Summary, Including Trends and Potential Areas of Concern**

Storm water samples are grab samples and collected directly from the stream. Flow rate is not factored in sample collection, as flow monitoring devices are not installed at the sampling points. Field observation sheets noting precipitation amount, weather conditions, sample appearance, etc. were completed at each sampling point every quarter and are included in Attachment 1. There were no observed factors that appeared to bias sample results. Some of those factors (if present) could be sheens, discoloration, smell, animal carcasses/feces, etc. The parameters analyzed are required under General NPDES Permit ILR40 Part V.(A)(2)(c) and are shown in attached Tables 1 through 4 (2023 Analytical Laboratory Results) and graphically on Figures 2 through 8 (Data Graphs). A graph was not generated for the parameter grease and oil since all grease and oil concentrations have been reported as non-detect (ND), below the laboratory reporting limit (RL).

As shown on Figure 2, the overall total chloride concentration since the first quarter of 2019 has been exhibiting a downward trend. The highest chloride concentration for each year usually occurs during the first quarter event. A plausible explanation for this trend could be related to the seasonal effect of snowfall and the runoff of "salt" placed on local roads, residential driveways, and sidewalks as a deicer.

A total suspended solid (TSS) is a waterborne particle that exceeds 2 microns in size (micron thickness is 0.001 millimeter [mm]). TSS can be anything that floats or is suspended in water and can affect water clarity. Common suspended solids are bacteria and sediments, such as clay, gravel, sand, and silt. Common causes of TSS in water are erosion and runoff from rainfall or snowmelt. In 2023, the average TSS concentrations at Sampling Point P2 were the highest since the 2019 average concentrations. Field sheets did not note any observations of debris or turbidity above what is normally reported in the stream when samples are taken. The TSS concentrations remained consistent with historical concentrations at the other three sampling points. In 2024, the TSS concentration will be studied at all sampling points, but especially at Sampling Point P2, to determine if the TSS concentration is still exhibiting an upward trend or has returned to historical levels. If the TSS concentration continues to exhibit an upward trend, possible sources will be investigated.

A particle smaller than 2 microns is considered a total dissolved solid (TDS). The United States Environmental Protection Agency (USEPA) secondary drinking water standard for a TDS concentration is 500 parts per million (ppm). Since there is no regulatory standard for TSS, those concentrations currently reported at Sampling Points P1 through P4 were compared to the USEPA standard for TDS. The TSS concentrations are considerably lower than the TDS standard.

The total nitrogen (Figure 4), and total Kjeldahl nitrogen (TKN) ammonia (Figure 6) concentrations were reported as ND, below the laboratory RL, for all four sampling points in 2023. For illustrative purposes, values reported as ND in the Figures are shown at the laboratory RL

There was a slight increase in the phosphorous concentration (Figure 5) in 2023 when compared to historical concentrations. The total phosphorus concentration will be studied to determine if this upward trend in concentration continues, or if the concentration returns to historic concentration levels.

Total nitrate (Figures 7 through 7D) is being detected at all four sampling locations. However, as shown in Figure 7, the overall total nitrate concentration is exhibiting a decreasing trend at all four sampling locations. Figures 7A through 7D illustrate the total nitrate concentrations at each individual sampling point. In 2023, Sampling Points P1 and P2 exhibited similar trends, with the highest concentration being reported during the second quarter event. Sampling Points P3 and P4 exhibited a different trend, with the highest concentration being reported during the third quarter 2023 event. The total nitrate concentration decreased during the fourth quarter event at all four locations. Concentration levels are considerably below the Class I Groundwater Quality Standard (Potable Resource Groundwater) of 10 milligrams per liter (mg/L). The concentrations detected above the RL could be related to runoff from the application of fertilizers, herbicides, and insecticides at residences and businesses.

As shown in Figure 8, the fecal coliform concentrations for quarters 1 through 3 in 2023 were consistent with historical concentrations across all four sampling points. The fourth quarter 2023 fecal coliform samples were analyzed by a different Method (Method SM 9222D). Prior to the fourth quarter 2023 sampling event, the fecal coliforms samples were analyzed by the Colilert-18 Method. With the Colilert-18 Method, any total coliform results above 2,420 most probable number per 100 milliliters (MPN/100 mL) were reported as greater than (>) 2,420 MPN/100 mL. Method SM 9222D allows for reporting of greater concentration levels, which is why concentrations were reported from 3,600 colony forming units per 100 mL (CFU/100 mL) to 65,000 CFU/100 mL for the fourth quarter of 2023. In 2024, all fecal coliform samples will be analyzed by Method SM9222D.

In 2024 we will have an actual fecal concentration value, as opposed to a > 2,420 MPN/100 mL value. This allows for a better comparison of concentrations from quarter to quarter, analyzing for seasonal effects, comparisons between sampling locations, and the affects precipitation and snowfall amounts events might have on the fecal coliform concentration at that sampling point. The units MPN/100 mL and CFU/100 mL are equivalent. The only difference is the method used to detect bacteria, and both methods are valid measures of bacteria density.

The historical fecal coliform concentrations are shown on attached Figure 8. Since we will have actual fecal coliform concentrations reported in 2024, Foth will complete a graphical trend analysis graph for each location in the next summary report, which will help identify seasonal effects.

On Figures 9 through 11, the concentrations of total chloride, total nitrate, TSS were compared to precipitation levels. Total precipitation amounts measured 48 hours prior to collection of the quarterly samples from 2019 through 2023 were analyzed, looking for trends. As shown on the figures in general, the precipitation amount does appear to affect the chloride, nitrate, and TSS concentrations. Figures 9 through 11 will be updated each year for trends.

The following actions could be used to further investigate the fecal coliform and the other parameter concentrations:

- ◆ Collecting background samples from upgradient watersheds that flow into the City's creeks and streams to determine a background value prior to entering the City's waterways.
- ◆ Collecting periodic samples during non-precipitation events to check "normal" flow background concentrations (not affected by precipitation) for all parameters.

- ◆ Collecting grab samples during a storm event to evaluate concentration levels across time.
- ◆ Increasing the number of sampling locations and considering timed collection of storm samples to evaluate concentrations across a storm event, such as the total maximum daily load (TMDL) study.
- ◆ Continuing to track snowfall totals and whether winter precipitation corresponds to increased concentrations in water samples. The higher the total snowfall amount, the more salt or other deicer products would be used by the City/County and the public.
- ◆ Continuing to track, by date, monthly precipitation amounts and comparing them to samples collected, looking for indications of runoff from erosion or application of landscaping chemicals.
- ◆ Identifying high fecal watershed and sampling multiple points along streams at the same time to narrow potential pollutant sources.

Some general assumptions are.

1. The overall total chloride and total nitrate concentrations have been exhibiting a decreasing trend since 2019.
2. The periodic detection of concentrations of nitrogen, phosphorous, and TKN ammonia, could be related to the application of deicing chemicals and runoff from the application of landscaping chemicals.
3. The total chloride, total nitrate, and TSS concentrations do not appear to be affected by precipitation amounts, but the total chloride concentration does appear to be affected by the application of road salt and deicer products during the first quarter event. These trends will continue to be investigated in 2024.
4. Grease and oil concentrations have been reported as ND, below the laboratory RL.

In 2024 actual concentrations for the fecal coliform test will be reported. Actual concentrations will allow for better comparison between sampling points and an analysis of the effects of seasonality and precipitation amounts, if any, on the fecal coliform concentration.

In 2024 background concentrations will be collected periodically during non-storm events to expand the non-storm events background value database.

At this time, the water quality appears to either be improving or remaining stable. The concentrations of parameters that have been analyzed do not appear to be trending upward. The total phosphorous concentration in 2023 was up slightly when compared to historical concentrations and will be studied in 2024.

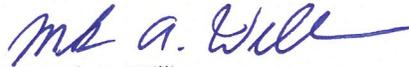
If you have any questions about this Summary Report, please contact the undersigned at [josh.gabehart@foth.com](mailto:josh.gabehart@foth.com), [mark.williams@foth.com](mailto:mark.williams@foth.com), or (309) 691-5300.

Sincerely,

Foth Infrastructure & Environment, LLC



Joshua C. Gabehart, P.E.  
Client Team Leader  
Licensed in IL, IA, AR, & GA



Mark A. Williams  
Lead Environmental Scientist

Enclosures

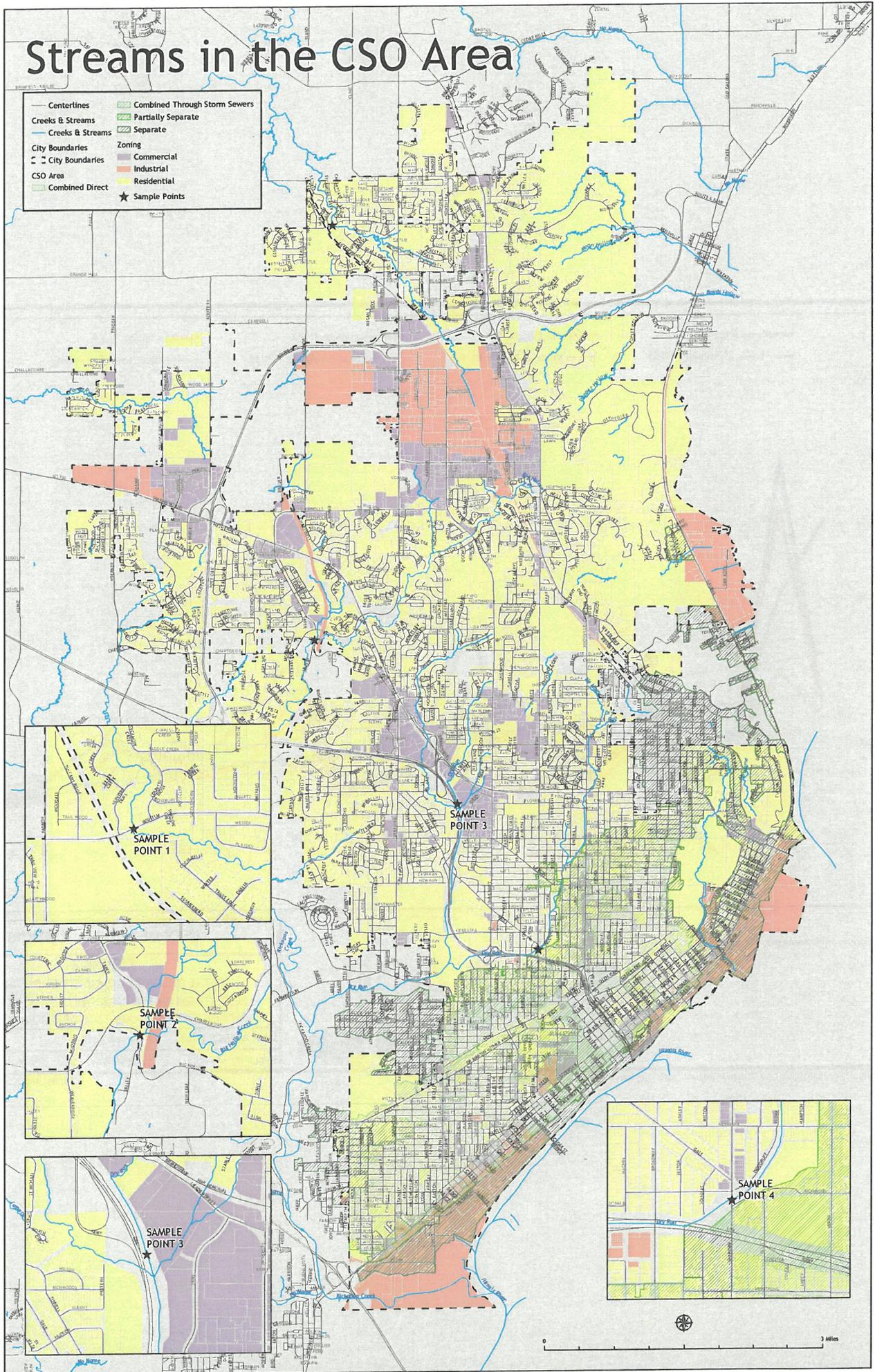
Figures  
Tables  
Attachment 1      Field Observation Sheets

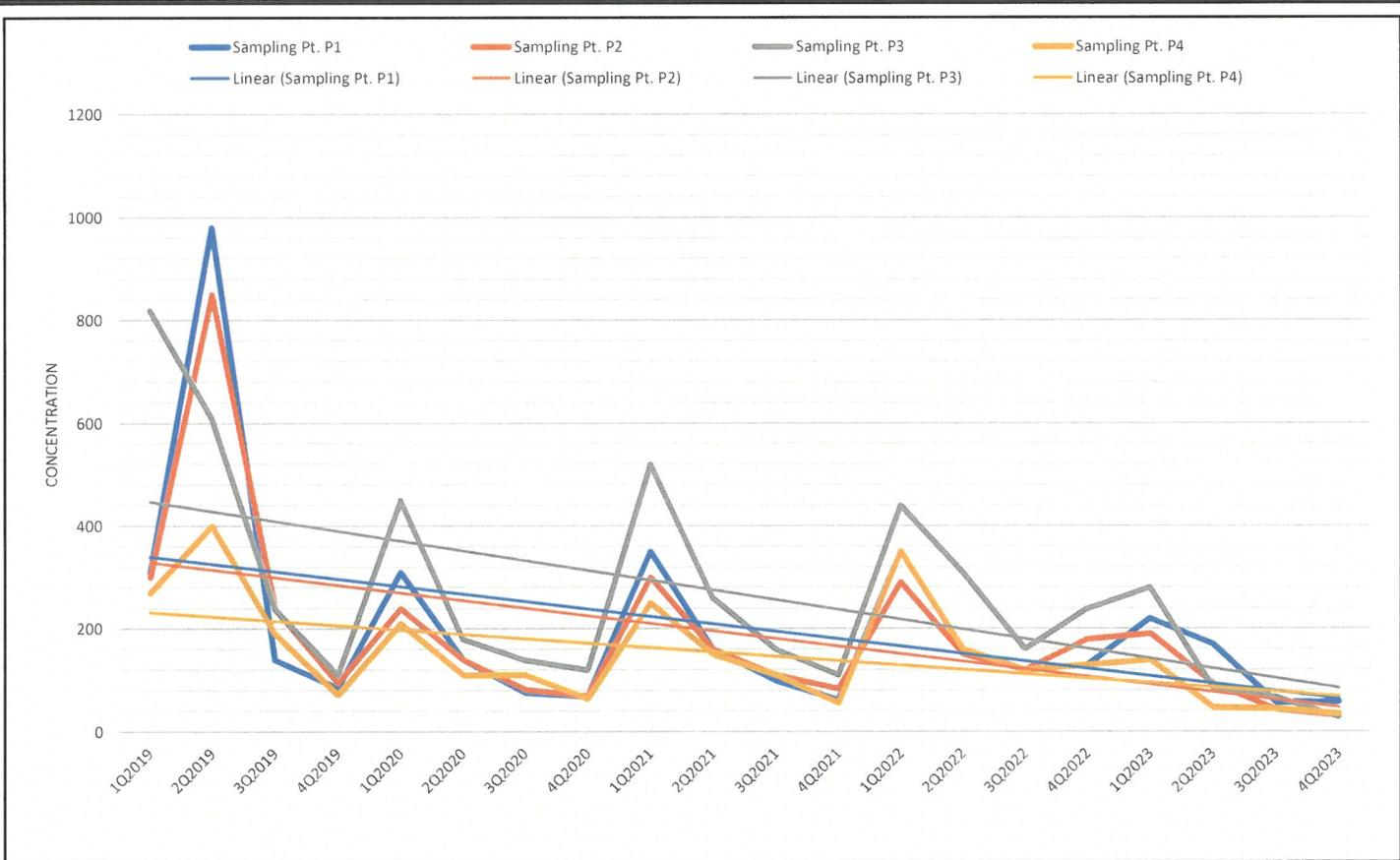
## **Figures**

- Figure 1 – Map of Sampling Point Locations
- Figure 2 – Total Chloride Concentration Graph
- Figure 3 – Total Suspended Solids Concentration Graph
- Figure 4 – Total Nitrogen Concentration Graph
- Figure 5 – Total Phosphorous Concentration Graph
- Figure 6 – TKN Ammonia Concentration Graph
- Figure 7 – Total Nitrate Concentration Graph
- Figure 7A – Total Nitrate Concentrations at P1
- Figure 7B – Total Nitrate Concentrations at P2
- Figure 7C – Total Nitrate Concentrations at P3
- Figure 7D – Total Nitrate Concentrations at P4
- Figure 8 – Total Fecal Coliform Concentration Graph
- Figure 9 – Total Chloride Concentrations and Precipitation Amounts
- Figure 10 – Total Nitrate Concentrations and Precipitation Amounts
- Figure 11 – Total Suspended Solids and Precipitation Amounts

# Streams in the CSO Area

- Centerlines
- Creeks & Streams
- Creeks & Streams
- City Boundaries
- City Boundaries
- CSO Area
- Combined Through Storm Sewers
- Partially Separate
- Separate
- Zoning
- Commercial
- Industrial
- Residential
- Combined Direct
- ★ Sample Points





**NOTES:**

Concentrations in milligrams per liter (mg/L)

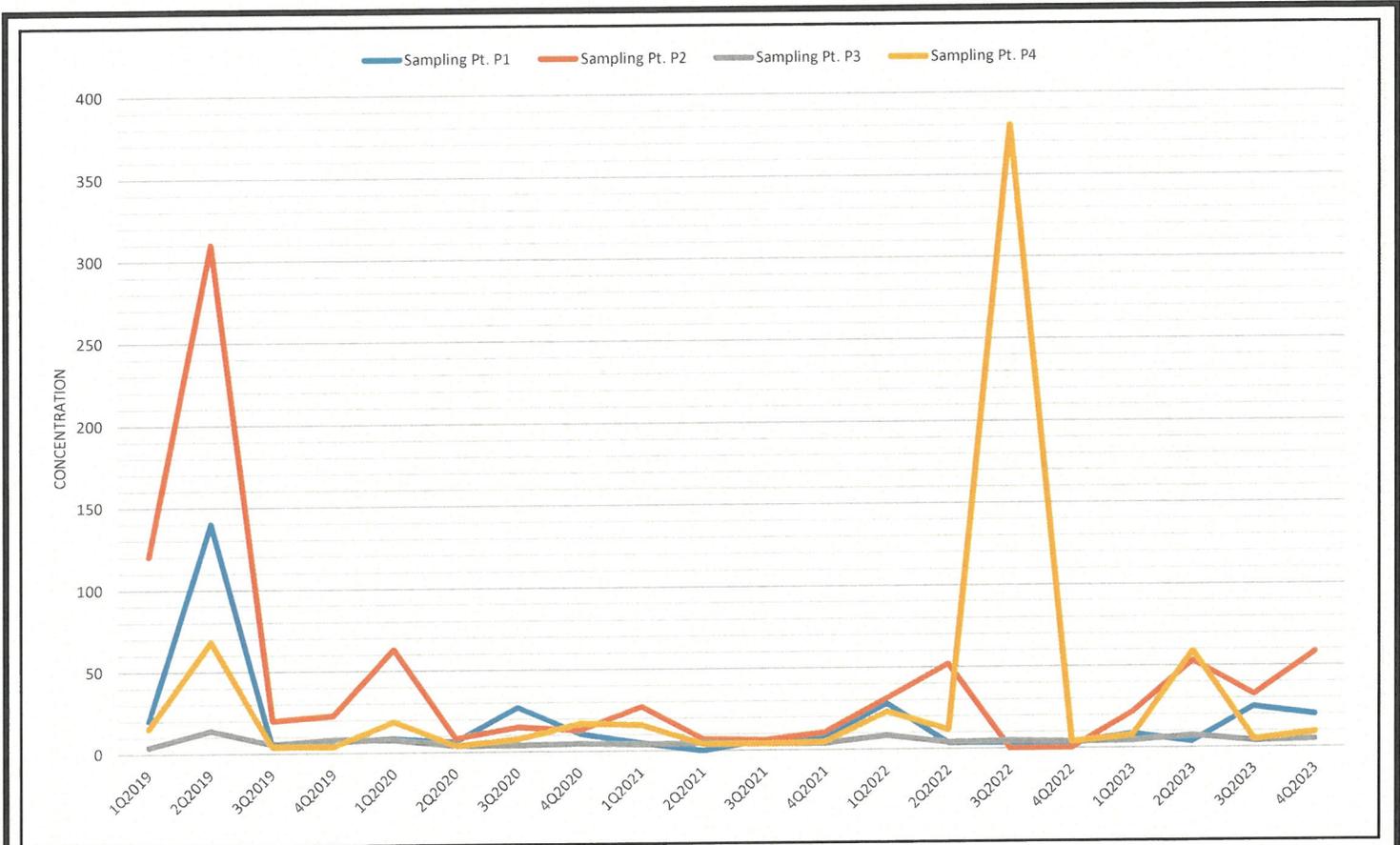
**CITY OF PEORIA, ILLINOIS**

**FIGURE 2**

**TOTAL CHLORIDE CONCENTRATION GRAPH**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
 CITY OF PEORIA SEPARATE STORM SEWER SYSTEM



|                  |                                       |
|------------------|---------------------------------------|
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**NOTES:**

Concentrations in milligrams per liter (mg/L)

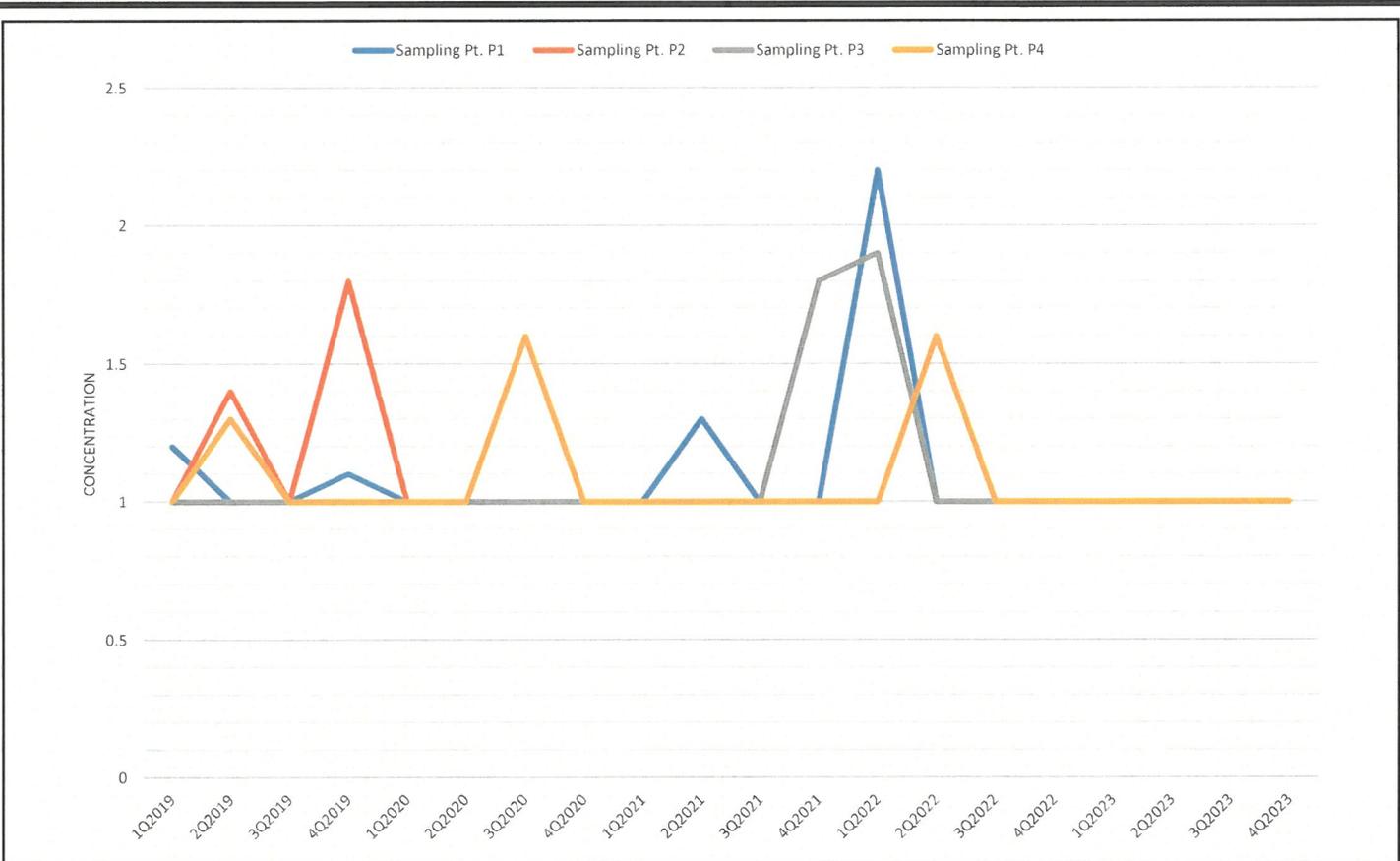
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**FIGURE 3**

**TOTAL SUSPENDED SOLIDS CONCENTRATION GRAPH**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
 CITY OF PEORIA SEPARATE STORM SEWER SYSTEM

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**NOTES:**

Concentrations in milligrams per liter (mg/L)

Non-detect values are shown at the laboratory reporting limit of 1.0 mg/L

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**FIGURE 4**

**TOTAL NITROGEN CONCENTRATION GRAPH**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
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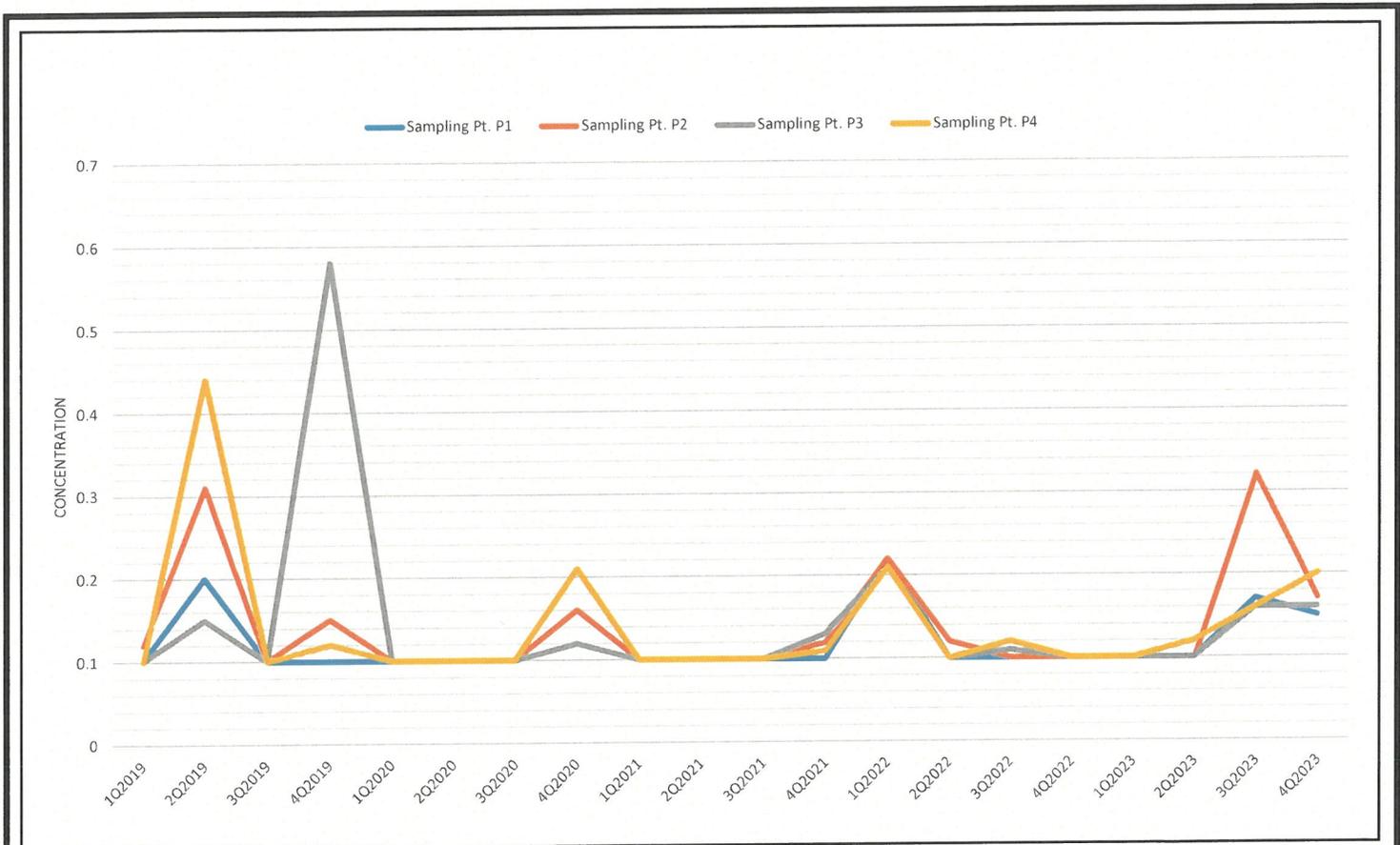
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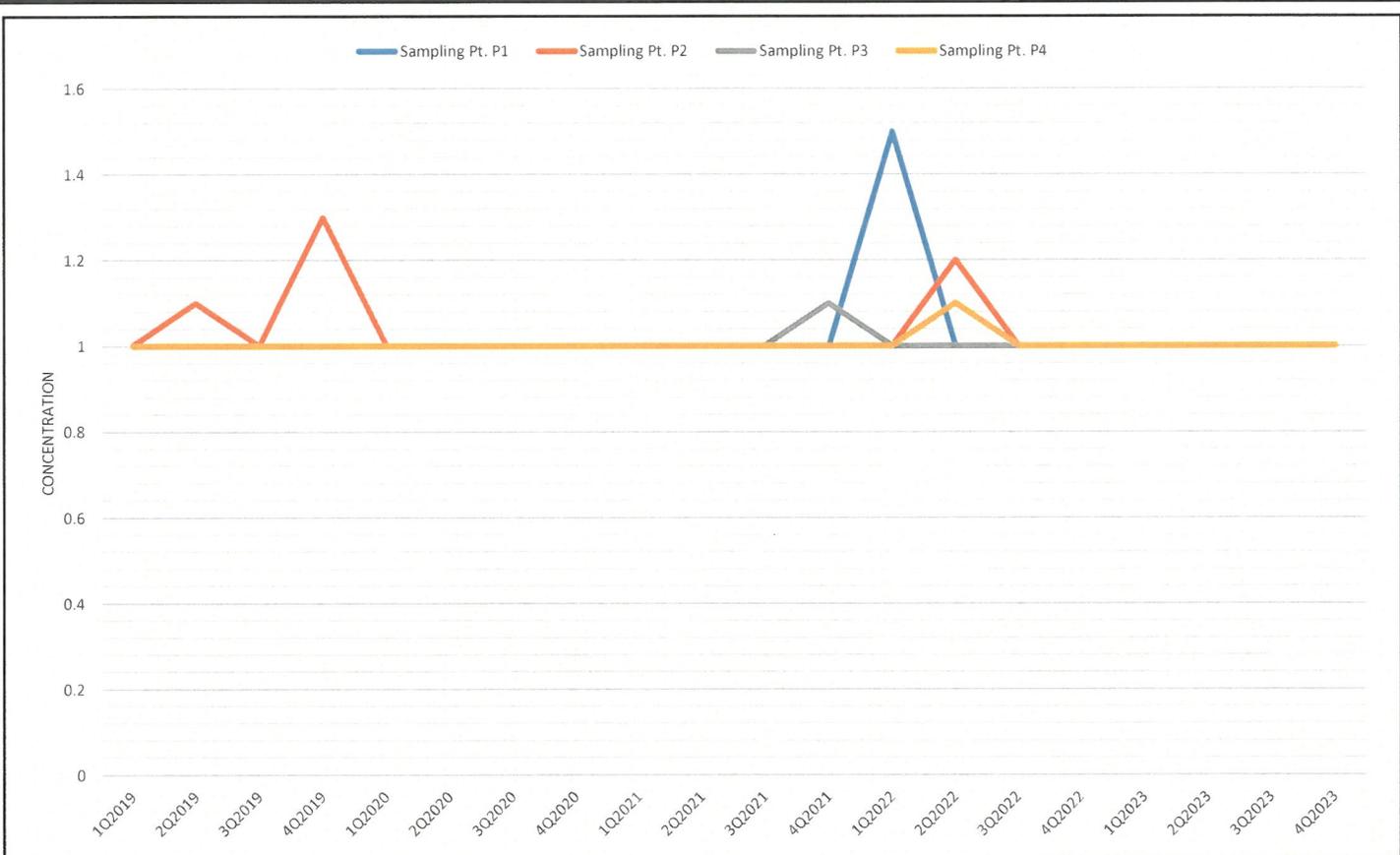


**NOTES:**

Concentrations in milligrams per liter (mg/L)  
 Non-detect values are shown at the laboratory reporting limit of 0.1 mg/L



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|---|------------------|--------------------|
| <b>CITY OF PEORIA, ILLINOIS</b>   |                  |                    |
| <b>FIGURE 5</b>   |                  |                    |
| TOTAL PHOSPHOROUS CONCENTRATION GRAPH<br>2023 STORM WATER SAMPLING SUMMARY REPORT<br>CITY OF PEORIA SEPARATE STORM SEWER SYSTEM |                  |                    |
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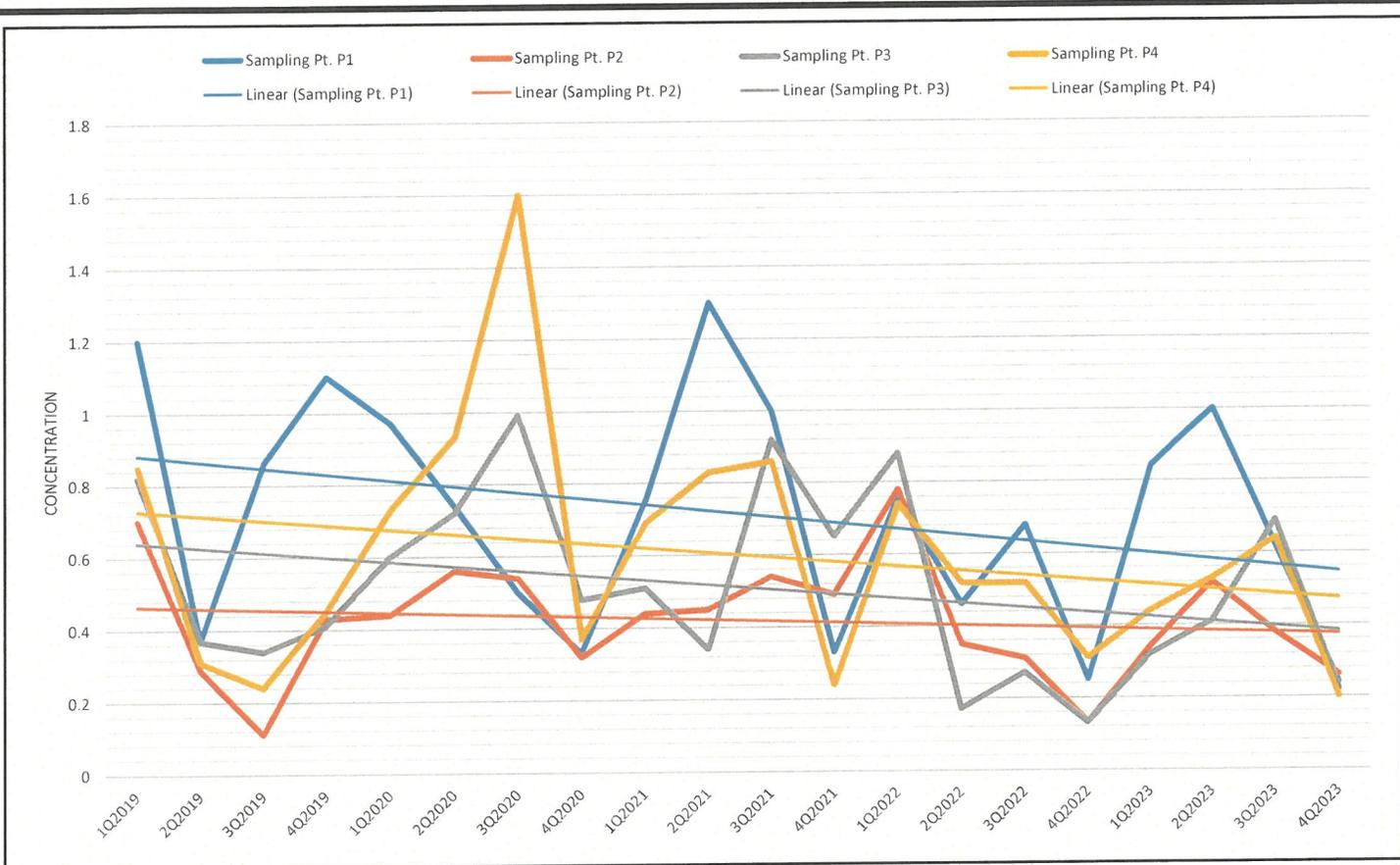


**NOTES:**

TKN = Total Kjeldahl Nitrogen  
 Concentrations in milligrams per liter (mg/L)  
 Non-detect values are shown at the laboratory reporting limit of 1.0 mg/L



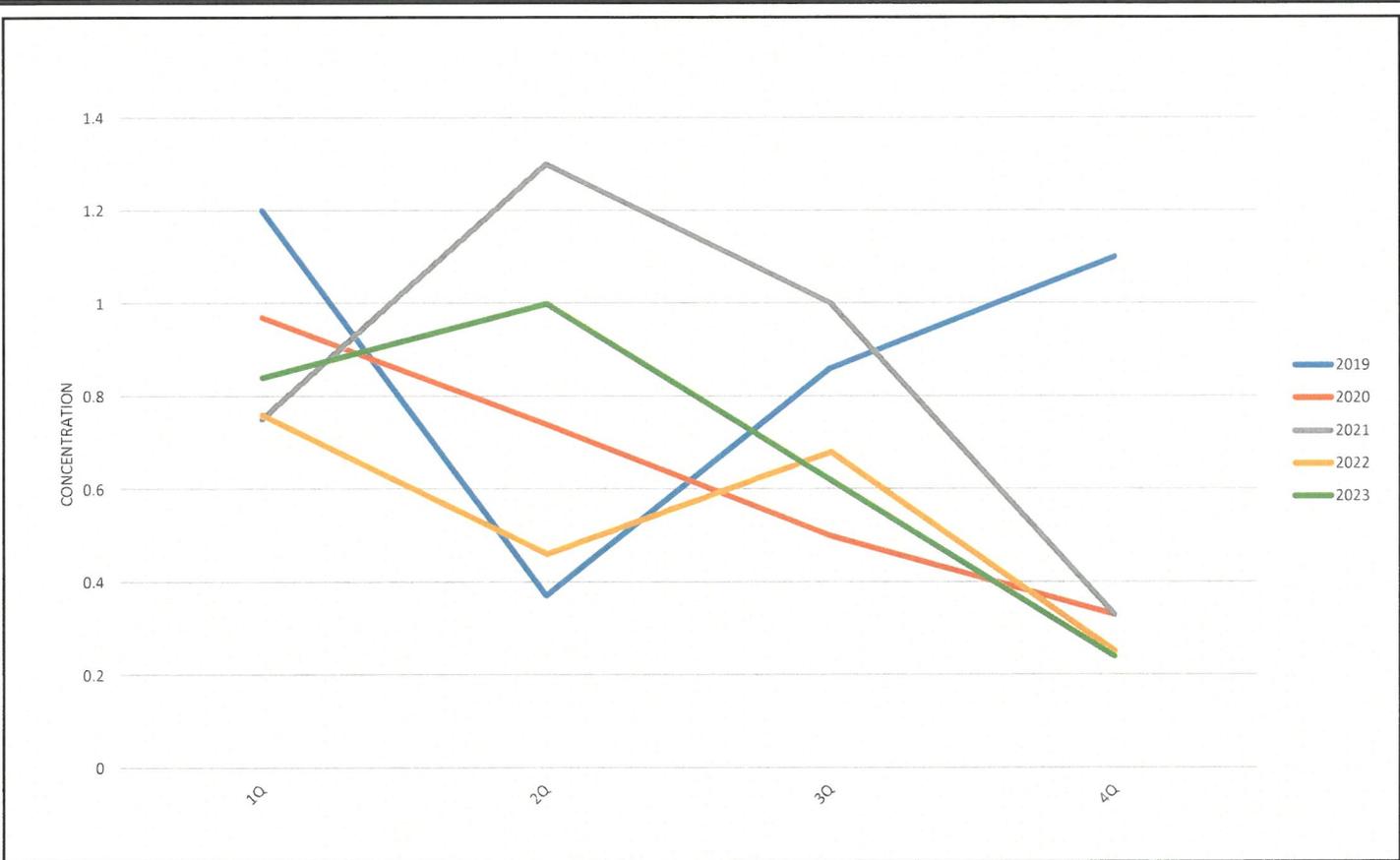
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| <b>CITY OF PEORIA, ILLINOIS</b>            |                  |                    |
| <b>FIGURE 6</b>                            |                  |                    |
| <b>TKN AMMONIA CONCENTRATION GRAPH</b>     |                  |                    |
| 2023 STORM WATER SAMPLING SUMMARY REPORT   |                  |                    |
| CITY OF PEORIA SEPARATE STORM SEWER SYSTEM |                  |                    |
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**NOTES:**  
Concentrations in milligrams per liter (mg/L)



|  |                  |                    |
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| <b>FIGURE 7</b>  |                  |                    |
| <b>TOTAL NITRATE CONCENTRATION GRAPH</b>   |                  |                    |
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**NOTES:**

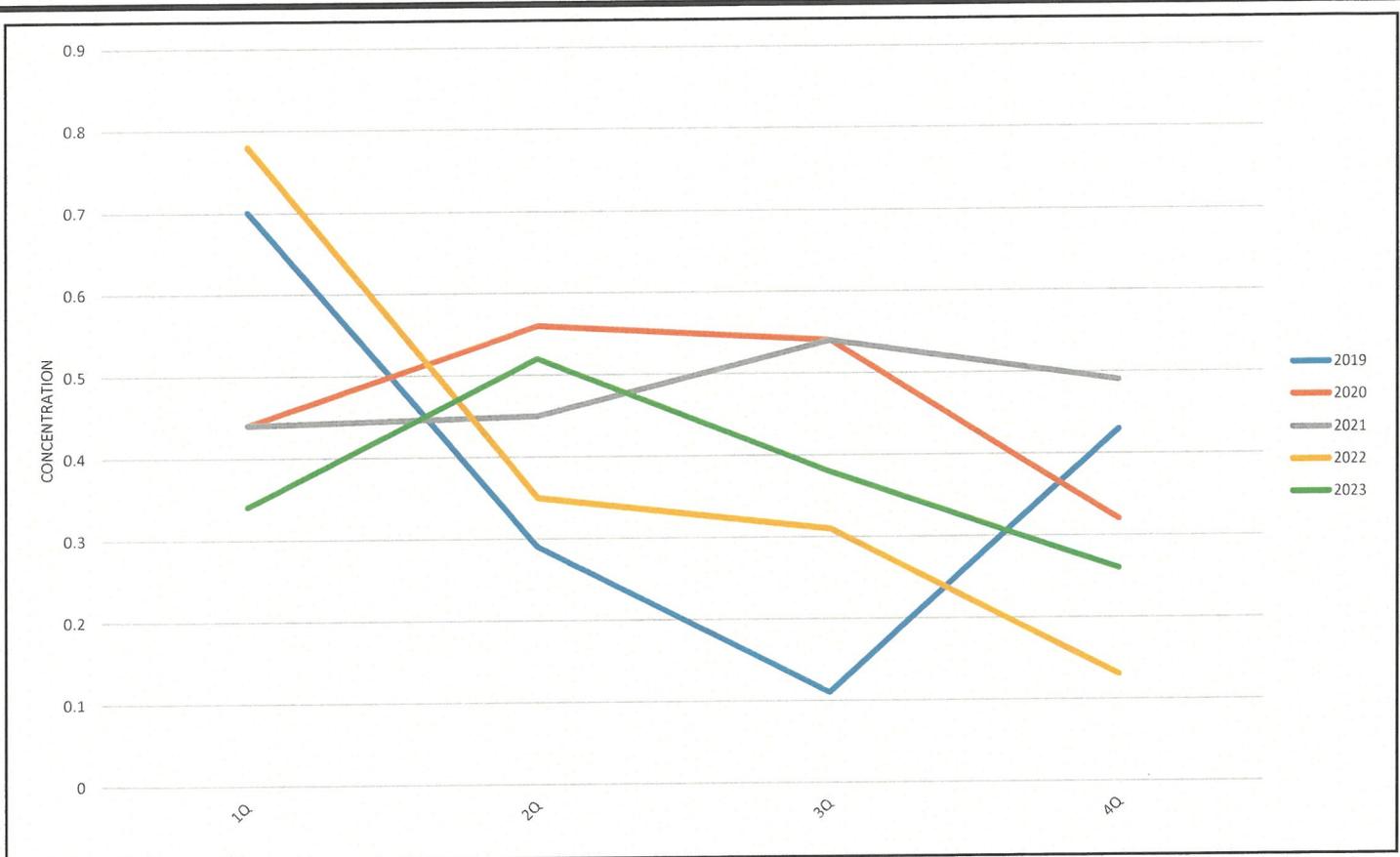
Concentrations in milligrams per liter (mg/L)

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**FIGURE 7A**  
**TOTAL NITRATE CONCENTRATIONS AT P1**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
 CITY OF PEORIA SEPARATE STORM SEWER SYSTEM



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**NOTES:**

Concentrations in milligrams per liter (mg/L)

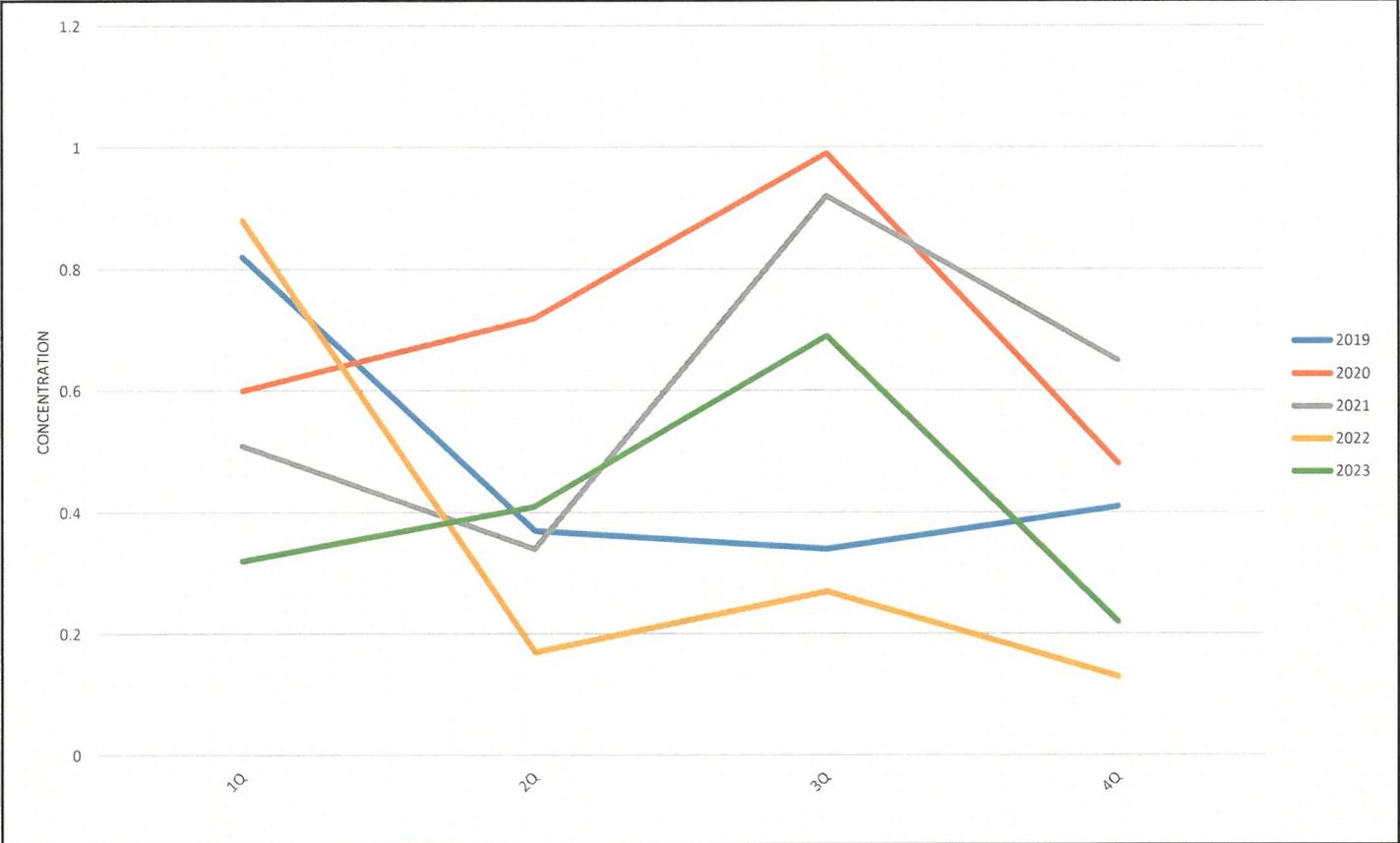
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**FIGURE 7B**

**TOTAL NITRATE CONCENTRATIONS AT P2**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
 CITY OF PEORIA SEPARATE STORM SEWER SYSTEM

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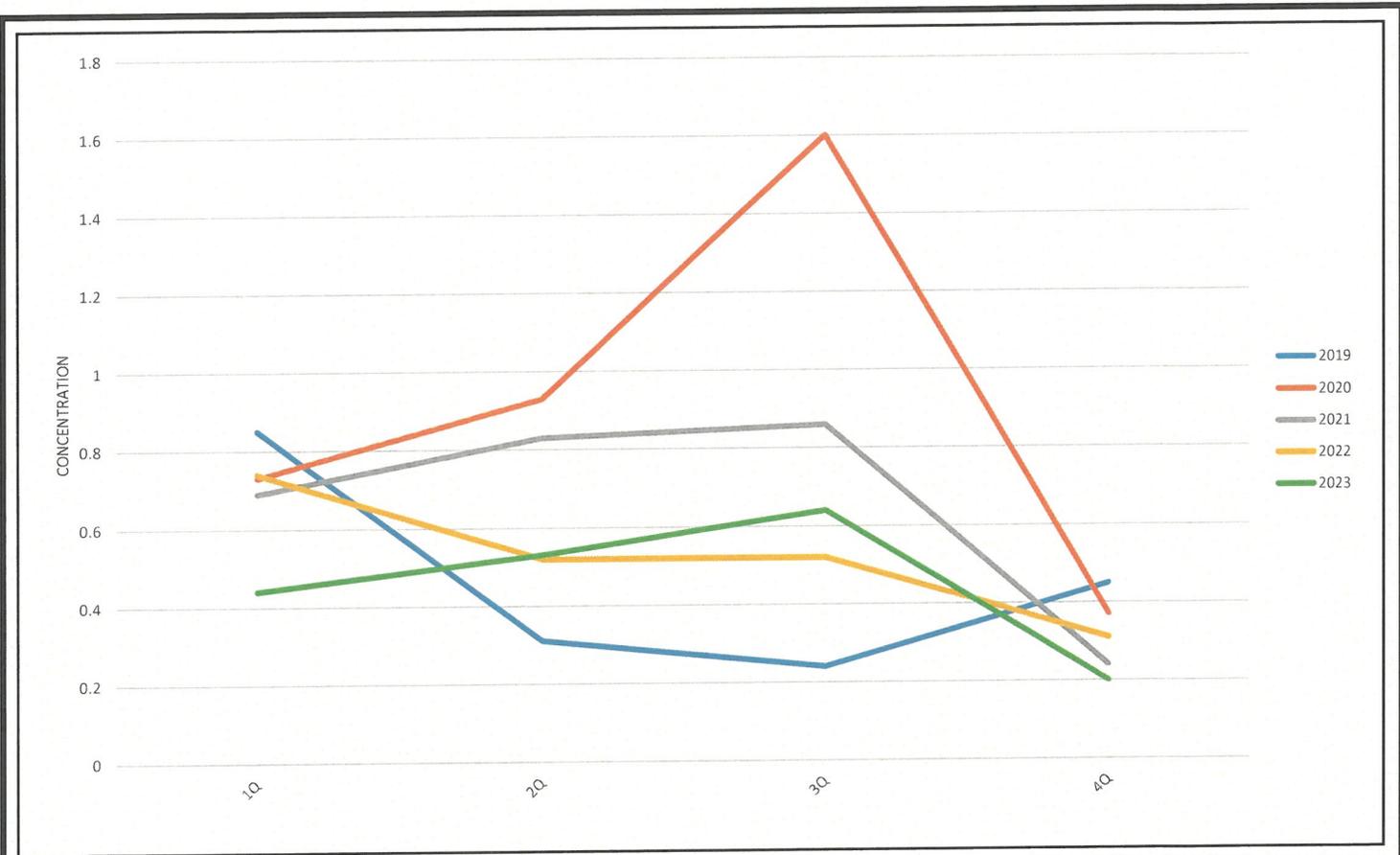




**NOTES:**  
Concentrations in milligrams per liter (mg/L)



|  |                  |                    |
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| <b>FIGURE 7C</b>                           |                  |                    |
| TOTAL NITRATE CONCENTRATIONS AT P3         |                  |                    |
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**NOTES:**

Concentrations in milligrams per liter (mg/L)

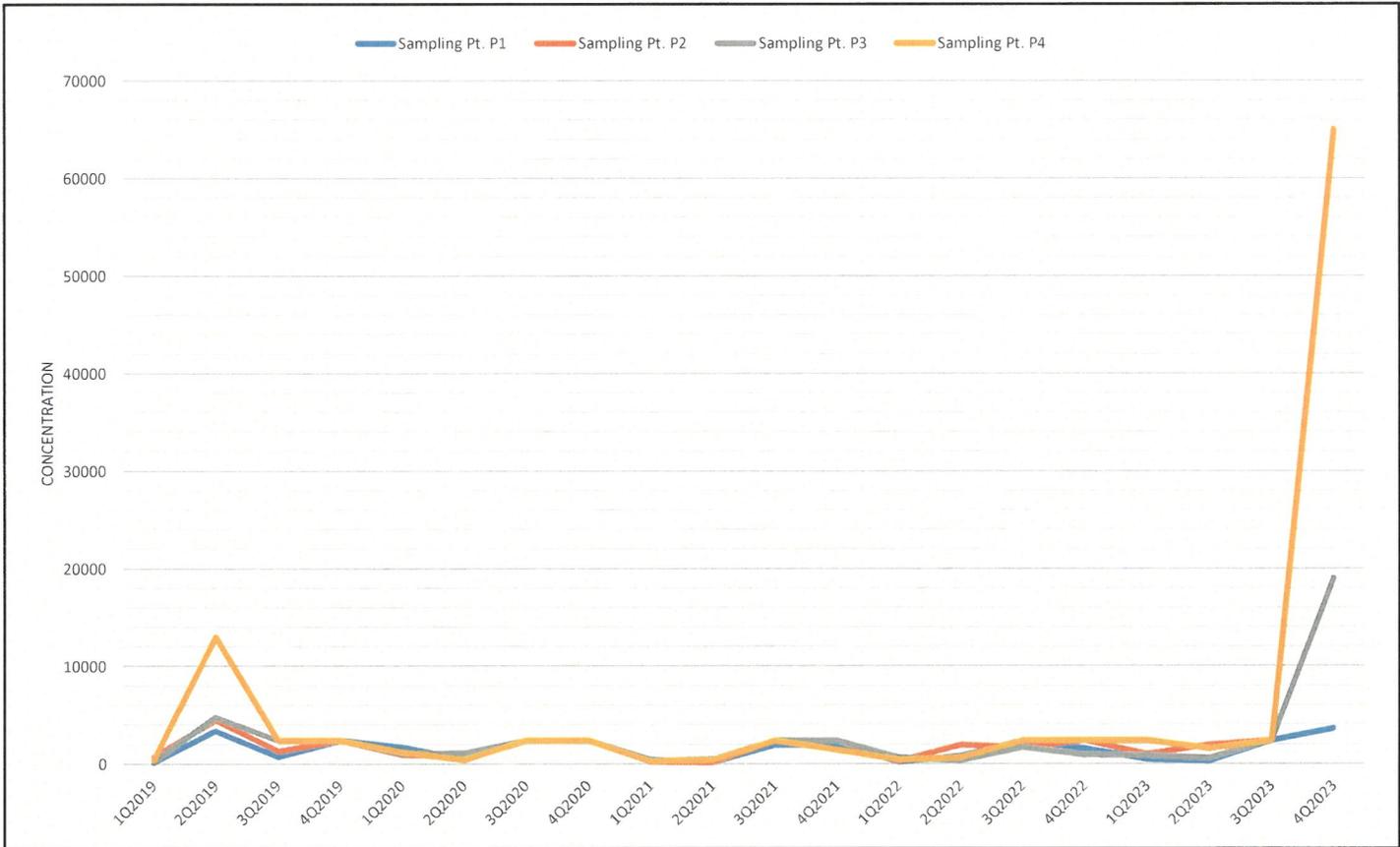


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**FIGURE 7D**

**TOTAL NITRATE CONCENTRATIONS AT P4**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
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**NOTES:**

Concentrations in colony forming units per 100 mL (CFU/100 mL)

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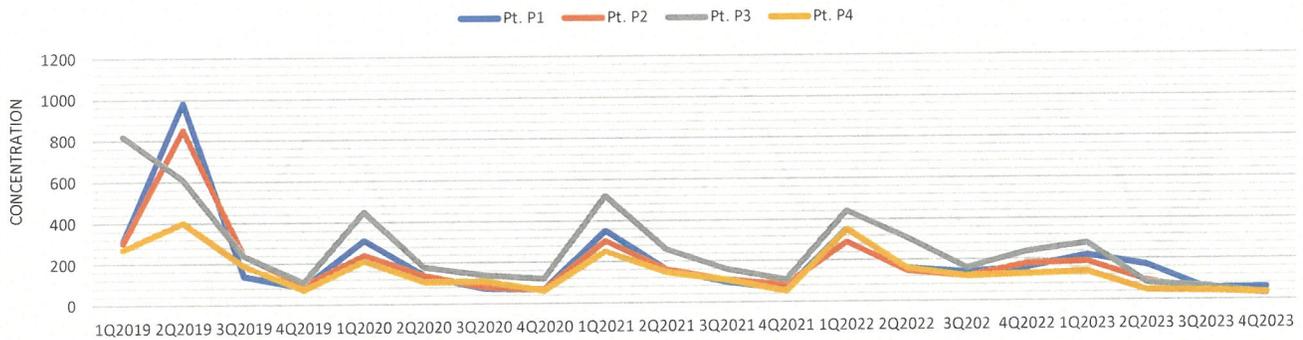
**FIGURE 8**

**TOTAL FECAL COLIFORM CONCENTRATION GRAPH  
2023 STORM WATER SAMPLING SUMMARY REPORT  
CITY OF PEORIA SEPARATE STORM SEWER SYSTEM**

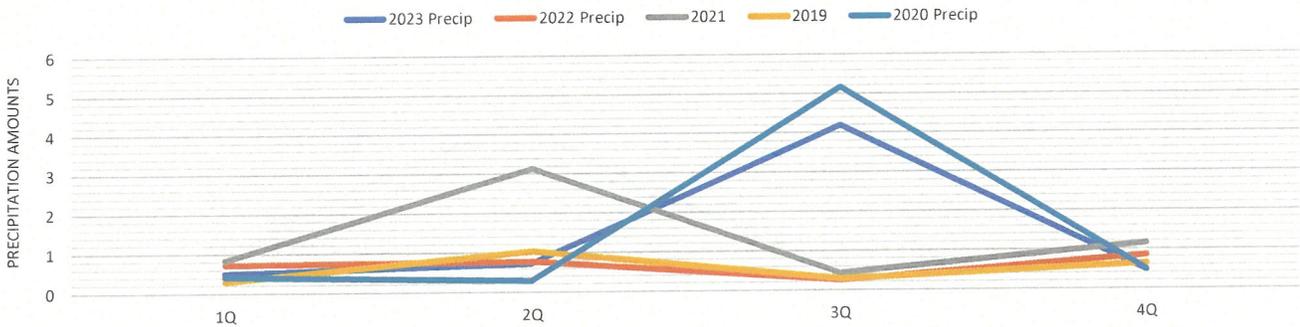
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### Total Chloride



### Total Precipitation



**NOTES:**

Chloride concentrations in milligrams per liter (mg/L).

Precipitation amounts in inches.

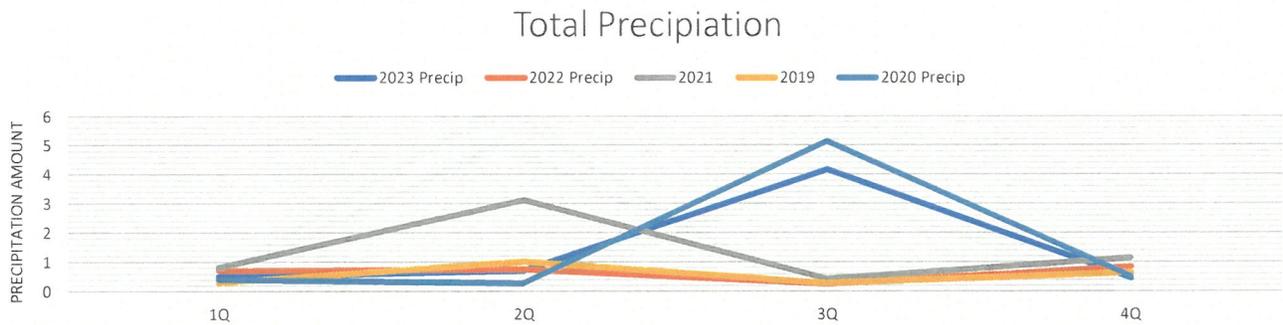
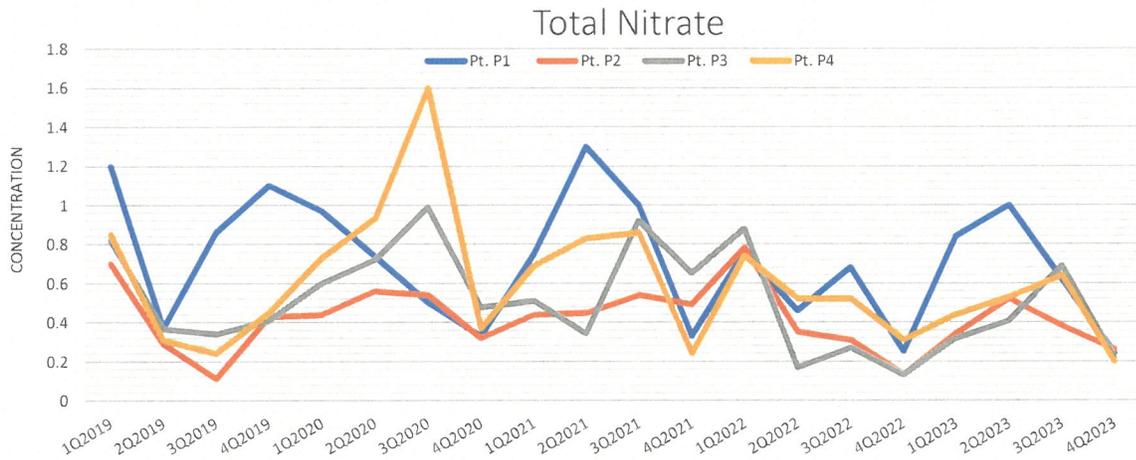
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**FIGURE 9**

**TOTAL CHLORIDE CONCENTRATIONS AND PRECIPITATION AMOUNTS  
2023 STORM WATER SAMPLING SUMMARY REPORT  
CITY OF PEORIA SEPARATE STORM SEWER SYSTEM**

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**NOTES:**

Nitrate concentrations in milligrams per liter (mg/L).

Precipitation amounts in inches.

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**FIGURE 10**

**TOTAL NITRATE CONCENTRATIONS AND PRECIPITATION AMOUNTS**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
 CITY OF PEORIA SEPARATE STORM SEWER SYSTEM

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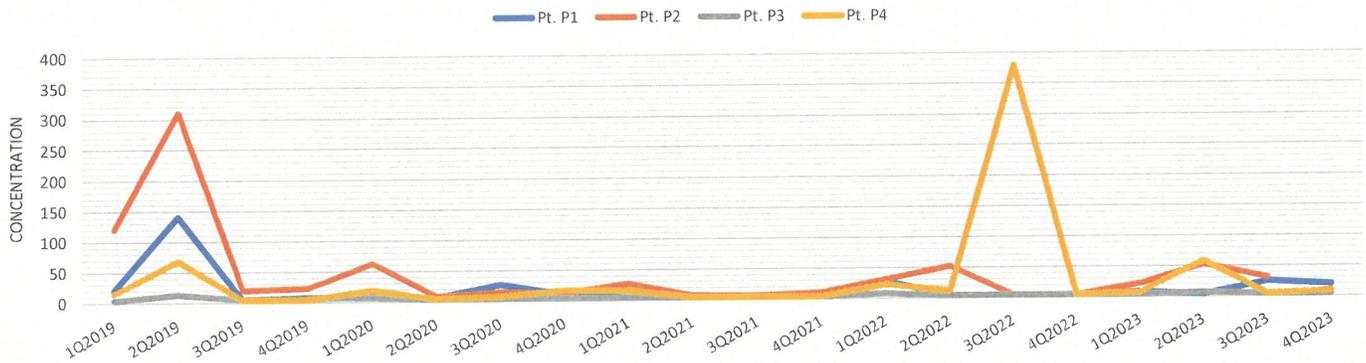
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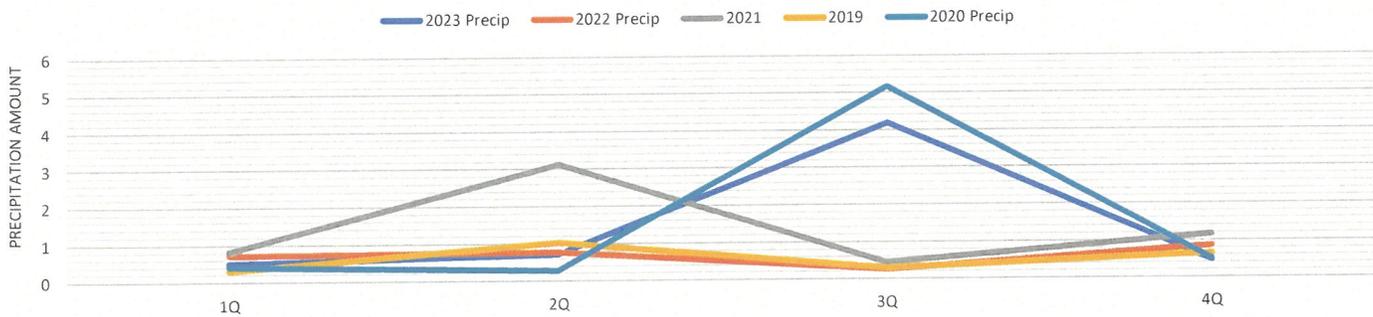
Project: 23P150.00



### Total Suspended Solids



### Total Precipitation



**NOTES:**

TSS concentrations in milligrams per liter (mg/L).

Precipitation amounts in inches.

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**FIGURE 11**

**TOTAL SUSPENDED SOLIDS AND PRECIPITATION AMOUNTS**  
 2023 STORM WATER SAMPLING SUMMARY REPORT  
 CITY OF PEORIA SEPARATE STORM SEWER SYSTEM

|                  |                                       |
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## **Tables**

Table 1 – Sampling Point P1 Laboratory Analytical Results

Table 2 – Sampling Point P2 Laboratory Analytical Results

Table 3 – Sampling Point P3 Laboratory Analytical Results

Table 4 – Sampling Point P4 Laboratory Analytical Results

**Table 1**  
**Sampling Point P1 Laboratory Analytical Results**  
**First through Fourth Quarters 2023**

| Parameters                    | Units      | 1Q2023 | 2Q2023 | 3Q2023  | 4Q2023           |
|-------------------------------|------------|--------|--------|---------|------------------|
| Chloride                      | mg/L       | 220    | 170    | 57      | 58               |
| Oil and Grease                | mg/L       | < 5    | < 5    | < 5.1   | <5               |
| Total Suspended Solids (TSS)  | mg/L       | 8.8    | <4     | 25      | 20               |
| Total Nitrogen                | mg/L       | < 1    | 1      | < 1.0   | <1.0             |
| Fecal Coliform                | MPN/100 mL | 488    | 326    | > 2,420 | 3,600 CFU/100 mL |
| Nitrate/Nitrite               | mg/L       | 0.84   | 1      | 0.62    | 0.24             |
| Phosphorous Total as P        | mg/L       | < 0.1  | < 0.1  | 0.17    | 0.15             |
| Total Kjeldahl-Nitrogen (TKN) | mg/L       | < 1.0  | < 1.0  | < 1.0   | < 1.0            |
| <b>Precipitation</b>          |            |        |        |         |                  |
| Last 24 hours                 | inch       | 0.67   | 0.25   | 1.93    | 0.56             |
| Last 48 hours                 | inch       | 0.68   | 0.36   | 4.82    | 0.56             |

Notes:

< = less than

> = greater than

CFU/100 mL = colony forming units per 100 milliliters

mg/L = milligrams per liter

MPN/100 mL = most probable number per 100 milliliters

Prepared by: MAW

Checked by: JCG1

**Table 2**  
**Sampling Point P2 Laboratory Analytical Results**  
**First through Fourth Quarters 2023**

| Parameters                    | Units      | 1Q2023 | 2Q2023 | 3Q2023  | 4Q2023            |
|-------------------------------|------------|--------|--------|---------|-------------------|
| Chloride                      | mg/L       | 190    | 93     | 44      | 31                |
| Oil and Grease                | mg/L       | < 5.1  | < 5.1  | < 5.1   | < 5.1             |
| Total Suspended Solids (TSS)  | mg/L       | 22     | 53     | 32      | 58                |
| Total Nitrogen                | mg/L       | < 1.0  | < 1.0  | < 1.0   | < 1.0             |
| Fecal Coliform                | MPN/100 mL | 980    | 1,990  | > 2,420 | 19,000 CFU/100 mL |
| Nitrate/Nitrite               | mg/L       | 0.34   | 0.52   | 0.38    | 0.26              |
| Phosphorous Total as P        | mg/L       | < 0.1  | < 0.1  | 0.32    | 0.17              |
| Total Kjeldahl-Nitrogen (TKN) | mg/L       | < 1.0  | < 1.0  | < 1.0   | < 1.0             |
| <b>Precipitation</b>          |            |        |        |         |                   |
| Last 24 hours                 | inch       | 0.5    | 0.67   | 1.43    | 0.45              |
| Last 48 hours                 | inch       | 0.5    | 0.73   | 4.19    | 0.45              |

Notes:

> = greater than

< = less than

CFU/100 mL = colony forming units per 100 milliliters

mg/L = milligrams per liter

MPN/100 mL = most probable number per 100 milliliters

Prepared by: MAW

Checked by: JCG1

**Table 3**  
**Sampling Point P3 Laboratory Analytical Results**  
**First through Fourth Quarters 2023**

| Parameters                    | Units      | 1Q2023 | 2Q2023  | 3Q2023  | 4Q2023            |
|-------------------------------|------------|--------|---------|---------|-------------------|
| Chloride                      | mg/L       | 280    | 86      | 67      | 29                |
| Oil and Grease                | mg/L       | < 5.0  | < 5.0   | < 5.1   | < 5.1             |
| Total Suspended Solids (TSS)  | mg/L       | 4.4    | 7.6     | < 4     | 4.8               |
| Total Nitrogen                | mg/L       | < 1.0  | < 1.0   | < 1.0   | < 1.0             |
| Fecal Coliform                | MPN/100 mL | 866    | 579     | > 2,420 | 19,000 CFU/100 mL |
| Nitrate/Nitrite               | mg/L       | 0.32   | 0.41    | 0.69    | 0.22              |
| Phosphorous Total as P        | mg/L       | < 0.1  | < 0.1   | 0.16    | 0.16              |
| Total Kjeldahl-Nitrogen (TKN) | mg/L       | < 1.0  | < 1.0Q2 | < 1.0   | < 1.0             |
| <b>Precipitation</b>          |            |        |         |         |                   |
| Last 24 hours                 | inch       | 0.5    | 0.67    | 1.43    | 0.45              |
| Last 48 hours                 | inch       | 0.5    | 0.73    | 4.19    | 0.45              |

Notes:

> = greater than

< = less than

CFU/100 mL = colony forming units per 100 milliliters

mg/L = milligrams per liter

MPN/100 mL = most probable number per 100 milliliters

Prepared by: MAW

Checked by: JCG1

**Table 4**  
**Sampling Point P4 Laboratory Analytical Results**  
**First through Fourth Quarters 2023**

| Parameters                    | Units      | 1Q2023  | 2Q23023 | 3Q2023  | 4Q2023            |
|-------------------------------|------------|---------|---------|---------|-------------------|
| Chloride                      | mg/L       | 140     | 47      | 45      | 35                |
| Oil and Grease                | mg/L       | < 5.1   | < 5.1   | < 5.0   | < 5.0             |
| Total Suspended Solids (TSS)  | mg/L       | 8       | 59      | 4.8     | 9.2               |
| Total Nitrogen                | mg/L       | < 1.0   | < 1.0   | < 1.0   | < 1.0             |
| Fecal Coliform                | MPN/100 mL | > 2,420 | 1,550   | > 2,420 | 65,000 CFU/100 mL |
| Nitrate/Nitrite               | mg/L       | 0.44    | 0.53    | 0.64    | 0.2               |
| Phosphorous Total as P        | mg/L       | < 0.1   | 0.12    | 0.16    | 0.2               |
| Total Kjeldahl-Nitrogen (TKN) | mg/L       | < 1.0   | < 1.0   | < 1.0   | < 1.0             |
| <b>Precipitation</b>          |            |         |         |         |                   |
| Last 24 hours                 | inch       | 0.4     | 0.65    | 1.09    | 0.42              |
| Last 48 hours                 | inch       | 0.4     | 0.71    | 3.59    | 0.42              |

Notes:

> = greater than

< = less than

CFU/100 mL = colony forming units per 100 milliliters

mg/L = milligrams per liter

MPN/100 mL = most probable number per 100 milliliters

Prepared by: MAW

Checked by: JCG1

**Attachment 1**  
**Field Observation Sheets**



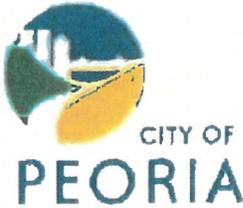
## Storm Water Sample Collection Form

|  |   |  |
|--|---|--|
| <b>Proj. Name:</b>                           | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                                 | 01/19/2023                                |  |
| <b>Sampling Location Point:</b>              | Sample Pt 1                               |  |
| <b>Sampling Personnel:</b>                   | Dakota Ladwig ; Mark Williams             |  |
| <b>Conditions of Sampling Point Location</b> |   |  |

|   |                      |               |
|---|----------------------|---------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Clear upstream       |               |
|   | elevated water level |               |
|   | moderate flow        |               |
| <b>Precipitation:</b>   | Last 24 hours        | Last 48 hours |
|   | 0.67"                | 0.68"         |
| <b>Current Outdoor Air Temperature:</b>   | 43°F                 |               |
| <b>Current Weather Conditions:</b>  | Cloudy / Fog         |               |

|                                  |          |  |
|----------------------------------|----------|--|
| <b>Water Sample Observations</b> |          |  |
| <b>Odor:</b>                     | Earthy   |  |
| <b>Appearance:</b>               | lk brown |  |
| <b>Color:</b>                    | " "      |  |
| <b>Turbidity:</b>                | moderate |  |
| <b>Other:</b>                    |          |  |

|  |  |  |
|--|--|--|
| <b>Additional Information/Comments</b> | Weather Station: PRISM "Peoria-RGHAWLEY" |  |
|  | TOS: 10:10                               |  |
|  |  |  |
|  |  |  |



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 01/19/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 2                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig & Mark Williams             |  |

### Conditions of Sampling Point Location

|   |                        |                        |
|---|------------------------|------------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Clear upstream         |                        |
|   | higher level           |                        |
|   | swift flow             |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>0.50" | Last 48 hours<br>0.50" |
| <b>Current Outdoor Air Temperature:</b>   | 43°f                   |                        |
| <b>Current Weather Conditions:</b>  | Cloudy/Fog             |                        |

### Water Sample Observations

|                    |          |
|--------------------|----------|
| <b>Odor:</b>       | earthy   |
| <b>Appearance:</b> | -        |
| <b>Color:</b>      | lt brown |
| <b>Turbidity:</b>  | moderate |
| <b>Other:</b>      |          |

|  |   |
|--|---|
| <b>Additional Information/Comments</b> | Weather Station: PRISM " Peoria - AGPWF " |
|  | TOS: 09:50                                |
|  |   |
|  |   |



## Storm Water Sample Collection Form

|                          |   |  |
|--------------------------|---|--|
| Proj. Name:              | City of Peoria, IL - Storm Water Sampling |  |
| Date:                    | 01/19/2023                                |  |
| Sampling Location Point: | Sample Pt 3                               |  |
| Sampling Personnel:      | Dakota Ladwig & Mark Williams             |  |

### Conditions of Sampling Point Location

|  |                        |                        |
|--|------------------------|------------------------|
| Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.): | fairly clear upstream  |                        |
|  | slightly higher level  |                        |
|  | moderate flow          |                        |
| Precipitation:   | Last 24 hours<br>0.50" | Last 48 hours<br>0.50" |
| Current Outdoor Air Temperature:   | 43°F                   |                        |
| Current Weather Conditions:  | cloudy / fog           |                        |

### Water Sample Observations

|             |                |
|-------------|----------------|
| Odor:       | earthy         |
| Appearance: | —              |
| Color:      | lt brn / green |
| Turbidity:  | moderate       |
| Other:      |                |

|                                 |  |
|---------------------------------|--|
| Additional Information/Comments | Weather Station: PRISM "Peoria-RG PWF" |
|                                 | TOS: 09:30                             |
|                                 |  |
|                                 |  |



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 01/19/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 4                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig                             |  |

### Conditions of Sampling Point Location

|   |                        |                        |
|---|------------------------|------------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Usual debris upstream  |                        |
|   | higher water level     |                        |
|   | swift flow             |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>0.40" | Last 48 hours<br>0.40" |
| <b>Current Outdoor Air Temperature:</b>   |                        |                        |
| <b>Current Weather Conditions:</b>  |                        |                        |

### Water Sample Observations

|                    |        |
|--------------------|--------|
| <b>Odor:</b>       | None   |
| <b>Appearance:</b> | —      |
| <b>Color:</b>      | lt brn |
| <b>Turbidity:</b>  | mod    |
| <b>Other:</b>      |        |

**Additional Information/Comments**

Weather Station: PRISM "Peoria - RG BRADLEY"

TOS: 09:15



## Storm Water Sample Collection Form

|                          |   |  |
|--------------------------|---|--|
| Proj. Name:              | City of Peoria, IL - Storm Water Sampling |  |
| Date:                    | 04/05/2023                                |  |
| Sampling Location Point: | Sample Pt 1                               |  |
| Sampling Personnel:      | Dakota Ladwig & Mark Williams             |  |

### Conditions of Sampling Point Location

|  |                     |                        |
|--|---------------------|------------------------|
| Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.): | Water level is high |                        |
|  | Swift flow          |                        |
|  | Normal debris       |                        |
| Precipitation:   | Last 24 hours       | Last 48 hours          |
|  | 0.25"               | <del>0.25"</del> 0.36" |
| Current Outdoor Air Temperature:   | 50°F                |                        |
| Current Weather Conditions:  | Cloudy & windy      |                        |

### Water Sample Observations

|             |                        |  |
|-------------|------------------------|--|
| Odor:       | None                   |  |
| Appearance: | v. light brown & clear |  |
| Color:      | "                      |  |
| Turbidity:  | low                    |  |
| Other:      | N/A                    |  |

**Additional Information/Comments**

PRISM " PEORIA - RG HAWLEY "

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TOS : 12:35 PM



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 04/05/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 2                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig & Mark Williams             |  |

### Conditions of Sampling Point Location

|   |                        |                        |
|---|------------------------|------------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | High water level       |                        |
|   | Swift flow             |                        |
|   | normal debris          |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>0.67" | Last 48 hours<br>0.73" |
| <b>Current Outdoor Air Temperature:</b>   | 53°F                   |                        |
| <b>Current Weather Conditions:</b>  | Cloudy & Windy         |                        |

### Water Sample Observations

|                    |             |
|--------------------|-------------|
| <b>Odor:</b>       | None        |
| <b>Appearance:</b> | Murky brown |
| <b>Color:</b>      | Brown       |
| <b>Turbidity:</b>  | Moderate    |
| <b>Other:</b>      | None        |

**Additional Information/Comments**

PRISM " PEORIA - RG PWF "

---

TOS : 12:10 PM



## Storm Water Sample Collection Form

|   |   |                        |
|---|---|------------------------|
| <b>Proj. Name:</b>  | City of Peoria, IL - Storm Water Sampling |                        |
| <b>Date:</b>  | 04/05/2023                                |                        |
| <b>Sampling Location Point:</b>   | Sample Pt 3                               |                        |
| <b>Sampling Personnel:</b>  | Dakota Ladwig & Mark Williams             |                        |
| <b>Conditions of Sampling Point Location</b>  |   |                        |
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Medium water level, higher on bank        |                        |
|   | Swift flow,                               |                        |
|   | No observed debris                        |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>0.67"                    | Last 48 hours<br>0.73" |
| <b>Current Outdoor Air Temperature:</b>   | 57° F                                     |                        |
| <b>Current Weather Conditions:</b>  | Cloudy / Windy                            |                        |
| <b>Water Sample Observations</b>  |   |                        |
| <b>Odor:</b>  | None                                      |                        |
| <b>Appearance:</b>  | Murky                                     |                        |
| <b>Color:</b>   | Olive green                               |                        |
| <b>Turbidity:</b>   | Moderate                                  |                        |
| <b>Other:</b>   | N/A                                       |                        |
| <b>Additional Information/Comments</b>  | PRISM " PEORIA - RG DWF "                 |                        |
|   | TOS: 11:55 AM                             |                        |



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 04/05/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 4                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig & Mark Williams             |  |

### Conditions of Sampling Point Location

|   |                  |               |
|---|------------------|---------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | High water level |               |
|   | v. swift flow    |               |
|   | Normal debris    |               |
| <b>Precipitation:</b>   | Last 24 hours    | Last 48 hours |
|   | 0.65"            | 0.71"         |
| <b>Current Outdoor Air Temperature:</b>   | 65°F             |               |
| <b>Current Weather Conditions:</b>  | Cloudy / Windy   |               |

### Water Sample Observations

|                    |             |
|--------------------|-------------|
| <b>Odor:</b>       | None        |
| <b>Appearance:</b> | Murky brown |
| <b>Color:</b>      | Brown       |
| <b>Turbidity:</b>  | High        |
| <b>Other:</b>      | N/A         |

**Additional Information/Comments**

PRISM: "PEORIA-RGBRADLEY"

TOS: 11:30 AM



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 08/07/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 1                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig & David Schumacher          |  |

### Conditions of Sampling Point Location

|   |                       |                       |
|---|-----------------------|-----------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Normal debris         |                       |
|   | Swift flow            |                       |
|   | Higher Level          |                       |
| <b>Precipitation:</b>   | Last 24 hours<br>1.93 | Last 48 hours<br>4.82 |
| <b>Current Outdoor Air Temperature:</b>   | 70°F                  |                       |
| <b>Current Weather Conditions:</b>  | Cloudy, wind N 9 mph  |                       |

### Water Sample Observations

|                    |             |
|--------------------|-------------|
| <b>Odor:</b>       | None        |
| <b>Appearance:</b> | light brown |
| <b>Color:</b>      | "           |
| <b>Turbidity:</b>  | Medium      |
| <b>Other:</b>      |             |

|  |                            |
|--|----------------------------|
| <b>Additional Information/Comments</b> | Prism "Peoria - BIGHAWLEY" |
|  | TOS: 11:05                 |
|  |                            |
|  |                            |



## Storm Water Sample Collection Form

|   |   |                        |
|---|---|------------------------|
| <b>Proj. Name:</b>  | City of Peoria, IL - Storm Water Sampling |                        |
| <b>Date:</b>  | 08/07/2023                                |                        |
| <b>Sampling Location Point:</b>   | Sample Pt 2                               |                        |
| <b>Sampling Personnel:</b>  | Dakota Ladwig ; David Schumacher          |                        |
| <b>Conditions of Sampling Point Location</b>  |   |                        |
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Normal debris                             |                        |
|   | Swift flow                                |                        |
|   | High level                                |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>1.43"                    | Last 48 hours<br>4.19" |
| <b>Current Outdoor Air Temperature:</b>   | 69° F                                     |                        |
| <b>Current Weather Conditions:</b>  | Cloudy, wind N 8 mph                      |                        |
| <b>Water Sample Observations</b>  |   |                        |
| <b>Odor:</b>  | None                                      |                        |
| <b>Appearance:</b>  | light brown                               |                        |
| <b>Color:</b>   | "   |                        |
| <b>Turbidity:</b>   | Medium                                    |                        |
| <b>Other:</b>   | Construction on bridge                    |                        |
| <b>Additional Information/Comments</b>  | Prism " Peoria - RGPWF "                  |                        |
|   | TOS 10:45                                 |                        |
|   |   |                        |



## Storm Water Sample Collection Form

|                                 |   |
|---------------------------------|---|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |
| <b>Date:</b>                    | 08/07/2023                                |
| <b>Sampling Location Point:</b> | Sample Pt 3                               |
| <b>Sampling Personnel:</b>      | Dakota Ladwig & David Schomacher          |

### Conditions of Sampling Point Location

|   |                        |                        |
|---|------------------------|------------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Fairly clear upstream  |                        |
|   | Swift flow             |                        |
|   | Higher level           |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>1.43" | Last 48 hours<br>4.19" |
| <b>Current Outdoor Air Temperature:</b>   | 69°F                   |                        |
| <b>Current Weather Conditions:</b>  | Cloudy, wind N 8 mph   |                        |

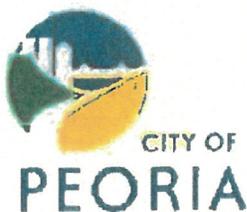
### Water Sample Observations

|                    |             |
|--------------------|-------------|
| <b>Odor:</b>       | None        |
| <b>Appearance:</b> | light brown |
| <b>Color:</b>      | "           |
| <b>Turbidity:</b>  | Medium      |
| <b>Other:</b>      |             |

**Additional Information/Comments**

Prism "Peoria - RG PWF"

TOS: 10:30



## Storm Water Sample Collection Form

|                          |   |  |
|--------------------------|---|--|
| Proj. Name:              | City of Peoria, IL - Storm Water Sampling |  |
| Date:                    | 08/07/2023                                |  |
| Sampling Location Point: | Sample Pt 4                               |  |
| Sampling Personnel:      | Dakota Ladwig & David Schumacher          |  |

### Conditions of Sampling Point Location

|  |                                      |                        |
|--|--------------------------------------|------------------------|
| Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.): | Normal debris (concrete, tires, etc) |                        |
|  | Swift flow                           |                        |
|  | higher levels                        |                        |
| Precipitation:   | Last 24 hours<br>1.09"               | Last 48 hours<br>3.59" |
| Current Outdoor Air Temperature:   | 68°F                                 |                        |
| Current Weather Conditions:  | Cloudy, Wind N Tmph                  |                        |

### Water Sample Observations

|             |             |
|-------------|-------------|
| Odor:       | None        |
| Appearance: | light brown |
| Color:      | ''          |
| Turbidity:  | Medium      |
| Other:      |             |

|                                 |                             |
|---------------------------------|-----------------------------|
| Additional Information/Comments | Prism "Peoria - RG Bradley" |
|                                 | TOS 10:15                   |
|                                 |                             |
|                                 |                             |



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 10/25/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 1                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig                             |  |

### Conditions of Sampling Point Location

|   |                      |                      |
|---|----------------------|----------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | High level           |                      |
|   | Swift flow           |                      |
|   | <b>Last 24 hours</b> | <b>Last 48 hours</b> |
| <b>Precipitation:</b>   | 0.56"                | 0.56"                |
| <b>Current Outdoor Air Temperature:</b>   | 64°F                 |                      |
| <b>Current Weather Conditions:</b>  | Cloudy               |                      |

### Water Sample Observations

|                    |          |
|--------------------|----------|
| <b>Odor:</b>       | earthy   |
| <b>Appearance:</b> | brown    |
| <b>Color:</b>      | "        |
| <b>Turbidity:</b>  | Moderate |
| <b>Other:</b>      |          |

**Additional Information/Comments**

PRISM " Hawley "



## Storm Water Sample Collection Form

|                                 |   |
|---------------------------------|---|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |
| <b>Date:</b>                    | 10/25/2023                                |
| <b>Sampling Location Point:</b> | Sample Pt 2                               |
| <b>Sampling Personnel:</b>      | Dakota Ladwig                             |

### Conditions of Sampling Point Location

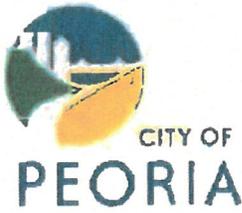
|   |                      |                      |
|---|----------------------|----------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | High level           |                      |
|   | Swift flow           |                      |
|   |                      |                      |
|   | <b>Last 24 hours</b> | <b>Last 48 hours</b> |
| <b>Precipitation:</b>   | 0.45"                | 0.45"                |
| <b>Current Outdoor Air Temperature:</b>   | 63° F                |                      |
| <b>Current Weather Conditions:</b>  | Cloudy               |                      |

### Water Sample Observations

|                    |          |
|--------------------|----------|
| <b>Odor:</b>       | None     |
| <b>Appearance:</b> | brown    |
| <b>Color:</b>      | "        |
| <b>Turbidity:</b>  | Moderate |
| <b>Other:</b>      |          |

**Additional Information/Comments**

Prism "PW"



## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 10/25/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 3                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig                             |  |

### Conditions of Sampling Point Location

|   |                      |                      |
|---|----------------------|----------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | High Level           |                      |
|   | Swift flow           |                      |
|   |                      |                      |
|   | <b>Last 24 hours</b> | <b>Last 48 hours</b> |
| <b>Precipitation:</b>   | 0.45"                | 0.45"                |
| <b>Current Outdoor Air Temperature:</b>   | 62°F                 |                      |
| <b>Current Weather Conditions:</b>  | Cloudy               |                      |

### Water Sample Observations

|                    |             |
|--------------------|-------------|
| <b>Odor:</b>       | Earthy      |
| <b>Appearance:</b> | light brown |
| <b>Color:</b>      | "           |
| <b>Turbidity:</b>  | Moderate    |
| <b>Other:</b>      |             |

**Additional Information/Comments**

PRISM "PW"

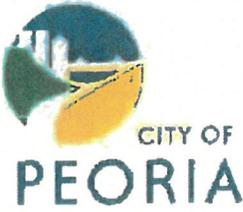
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## Storm Water Sample Collection Form

|                                 |   |  |
|---------------------------------|---|--|
| <b>Proj. Name:</b>              | City of Peoria, IL - Storm Water Sampling |  |
| <b>Date:</b>                    | 10/25/2023                                |  |
| <b>Sampling Location Point:</b> | Sample Pt 4                               |  |
| <b>Sampling Personnel:</b>      | Dakota Ladwig                             |  |

### Conditions of Sampling Point Location

|   |                        |                        |
|---|------------------------|------------------------|
| <b>Observations of Sampling Point Location (e.g., debris, downed trees, erosion, excessive sediment, etc.):</b> | Swift flow             |                        |
| <b>Precipitation:</b>   | Last 24 hours<br>0.42" | Last 48 hours<br>0.42" |
| <b>Current Outdoor Air Temperature:</b>   | 61° F                  |                        |
| <b>Current Weather Conditions:</b>  | Cloudy                 |                        |

### Water Sample Observations

|                    |          |
|--------------------|----------|
| <b>Odor:</b>       | None     |
| <b>Appearance:</b> | Brown    |
| <b>Color:</b>      | "        |
| <b>Turbidity:</b>  | Moderate |
| <b>Other:</b>      |          |

**Additional Information/Comments**

PRISM "Bradley"

