



**Speedway 5310**  
**(7-Eleven 43003 - Former TNS 112)**

**2Q June, 2024**  
**GWM Event Report**

ADEC File #100.26.159

## AUTHORIZATION TO SUBMIT REPORT

Stantec has been authorized by the client, 7-Eleven (representative Paula Sime, PG, Manager – Environmental Services) to submit the enclosed report titled “Tesoro North Store 112 - 2Q June 2024 GWM Event” dated July 2024, to the Alaska Department of Environmental Conservation. If you have any questions or need additional information concerning this report, please contact me at (907) 227-9883 or via email at [bob.gilfilian@stantec.com](mailto:bob.gilfilian@stantec.com).

Regards,

STANTEC CONSULTING SERVICES, INC.

A handwritten signature in black ink that reads "Bob Gilfilian". The signature is written in a cursive, flowing style.

Robert (Bob) Gilfilian, P.E.

Project Technical Lead

Principal Senior Civil Engineer

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## ACRONYMS AND ABBREVIATIONS

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|                         |   |
|-------------------------|---|
| AAC                     | Alaska Administrative Code  |
| ADEC                    | Alaska Department of Environmental Conservation                                     |
| AK                      | Alaska Test Method  |
| amsl                    | above mean sea level  |
| B                       | analyte detected in associated blank  |
| BTEX                    | benzene, toluene, ethylbenzene, and xylenes   |
| chemox                  | chemical oxidation  |
| DO                      | dissolved oxygen  |
| DRO                     | diesel range organics   |
| DUP                     | duplicate sample  |
| EPA                     | U.S. Environmental Protection Agency  |
| G                       | monitor well label  |
| GCL                     | groundwater cleanup level   |
| GRO                     | gasoline range organics   |
| J                       | The identification of the analyte is acceptable; the reported value is an estimate. |
| Klozur <sup>®</sup> One | Trademarked chemical oxidizer developed by PeroxyChem                               |
| mg/L                    | milligrams per liter  |
| MW                      | monitoring well   |
| NM                      | Not measured  |
| NC                      | Not calculated  |
| ORP                     | oxidation-reduction potential   |
| PAH                     | polycyclic aromatic hydrocarbon   |
| QA/QC                   | quality assurance/ quality control  |
| RM                      | remediation well  |
| SIM                     | selective ion monitoring  |
| Stantec                 | Stantec Consulting Services Inc.  |
| Tesoro                  | Tesoro Refining and Marketing Company   |
| TMB                     | trimethylbenzene  |
| U                       | analyte not detected above the reported detection limit in parentheses              |
| VOC                     | volatile organic compound   |
| WP                      | Work Plan   |

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## 1.0 INTRODUCTION

This Groundwater Monitoring and Remediation Event Report was prepared by Stantec Consulting Services, Inc. (Stantec) on behalf of Speedway Store 5310 (7-Eleven 43003 – Former TNS 112), located at 3392 Badger Road, North Pole, Alaska (**Figure 1**). The methods used for this monitoring event were conducted in accordance with the 2024 Alaska Department of Environmental Conservation (ADEC) approved Work Plan for this site (**Appendix B**). Monitoring event was conducted by the Stantec field team of Geoff Moorhead, Professional Engineer, and Remi Malenfant, Geologist-In-Training.

The monitoring event for the second quarter 2024 occurred on June 11, 2024, for the analytical sampling of Monitoring Wells MW-2, MW-3, MW-6, MW-10, MW17-2, and MW17-5. A previous event occurred on May 20, 2024, for the analytical sampling of critical Monitoring Wells MW-3, MW17-2, and MW17-5 prior to the beginning of monthly chemox treatment for the summer season. Sample locations are shown in **Figure 2**.

## 2.0 SITE BACKGROUND

Background information is summarized in **Appendix A**.

## 3.0 FIELD ACTIVITIES

The following field activities were conducted during this monitoring event:

- Measured depth to groundwater in Monitoring Wells MW-2, MW-3, MW-6, MW-10, MW17-2, and MW17-5.
- Collected field measurements of the following intrinsic water quality parameters: temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance (SC).
- Collected groundwater samples from Monitoring Wells MW-2, MW-3, MW-6, MW-10, MW17-2, and MW17-5, and submitted them for laboratory analysis for the following tests:
  - U.S. Environmental Protection Agency Test Method (EPA) 8260C for Volatile Organic Compounds (VOC) including benzene, toluene, ethylbenzene, and xylenes (BTEX), as well as 1,2,4-trimethylbenzene (TMB) and 1,3,5-TMB;
  - EPA 8270D with Selective Ion Monitoring (SIM) for polycyclic aromatic hydrocarbons (PAHs) including naphthalene;
  - Alaska Test Method (AK)101 for GRO;
  - AK102 for DRO;
  - and Metals 6010D for sodium.

Sample locations with results are shown on **Figure 2**.

- Monthly chemical oxidation (chemox) injection occurred in on May 20 and June 12 this quarter.

Field methods and procedures are provided in **Appendix B** and field measurements and notes are provided in **Appendix C**.

## 4.0 GROUNDWATER MONITORING RESULTS

### 4.1 GROUNDWATER LEVELS

**Table 1** presents groundwater elevations in the monitoring wells that were based on the depths to static groundwater levels measured during this monitoring event. The groundwater direction of flow was found to be roughly 52° to the northeast with a gradient of 0.088 feet per foot (**Figure 3**). This is generally consistent with previous monitoring events. Historical groundwater flow directions and gradient are shown using a rose diagram on **Figure 3**.

**Table 1 Groundwater Elevations**  
Measurements taken on June 11, 2024

| Monitoring Well Identification | Top of Casing Elevation (feet) <sup>1</sup> | Depth to Groundwater (feet) | Groundwater Elevation (feet amsl) |
|--------------------------------|---|-----------------------------|-----------------------------------|
| MW-2                           | 398.73                                      | 9.27                        | 389.46                            |
| MW-3                           | 398.87                                      | 9.45                        | 389.42                            |
| MW-6                           | 389.18                                      | 12.56                       | 376.62                            |
| MW-10                          | 387.78                                      | 13.08                       | 374.70                            |
| MW17-2                         | 390.01                                      | 8.82                        | 380.19                            |
| MW17-5                         | 398.62                                      | 9.23                        | 389.39                            |

Key:

<sup>1</sup> Based on a vertical control survey completed on July 5, 2022, using an elevation datum of 432.00 feet located on the concrete sidewalk next to the front entrance of the store.

amsl above mean sea level

### 4.2 FIELD PARAMETERS

The results of intrinsic water quality parameters (temperature, pH, DO, ORP, and SC) measured during this monitoring events are presented in **Table 2**. High SC readings in MW17-2 are a good indication of chemox treatment.

**Table 2 Field Measured Intrinsic Water Quality Parameters**  
Measurements taken on May 20 and June 11, 2024

| Monitoring Well Identification | Date      | Volume Purged (gallons) | Temperature (°C) | pH   | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm °C) | ORP (mV) |
|--------------------------------|-----------|-------------------------|------------------|------|-------------------------|---------------------------------|----------|
| MW-2                           | 6/11/2024 | 4.0                     | 6.1              | 6.90 | 1.59                    | 331                             | 253      |
| MW-3                           | 5/20/2024 | 7.0                     | 8.9              | 6.94 | 3.02                    | 776                             | 178      |
|                                | 6/11/2024 | 10.0                    | 5.1              | 6.66 | 1.79                    | 678                             | 280      |
| MW-6                           | 6/11/2024 | 3.0                     | 4.7              | 6.00 | 3.50                    | 306                             | 290      |
| MW-10                          | 6/11/2024 | 3.0                     | 4.5              | 6.59 | 5.68                    | 322                             | 235      |
| MW17-2                         | 5/20/2024 | 3.0                     | 3.4              | 5.90 | 6.01                    | 1467                            | 247      |
|                                | 6/11/2024 | 3.0                     | 5.4              | 5.78 | 1.80                    | 3295                            | 212      |
| MW17-5                         | 5/20/2024 | 2.5                     | 4.9              | 6.80 | 2.87                    | 295                             | 134      |
|                                | 6/11/2024 | 2.5                     | 6.3              | 5.55 | 1.54                    | 1415                            | 308      |

Key:

°C degrees Celsius

µs/cm°C microSiemens per centimeter degrees Celsius

mg/L milligrams per liter  
mV millivolts

NM Not measured  
pH log [H<sup>+</sup>]

### 4.3 WATER SAMPLE ANALYTICAL RESULTS

Historical monitoring data for this site are tabulated in **Appendix D**. Laboratory analytical results for BTEX, GRO, DRO, 1,2,4-TMB, 1,3,5-TMB, naphthalene, and sodium detected in groundwater samples collected during this monitoring event are summarized in **Table 3a and 3b**. The data below shows detections above groundwater cleanup levels (GCLs) in wells MW-3, MW17-2, MW17-5, and the duplicate. The laboratory analytical report is provided in **Appendix E**.

The sodium concentration in well MW17-2 is high compared to the other wells and may be an indication of chemox treatments with Klozur<sup>®</sup> One (an activated sodium persulfate compound). Benzene, total xylenes, and 1,2,4-TMB were detected above GCLs in well MW17-5 for the May 20 event only. Benzene, ethylbenzene, total xylenes, GRO, DRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene were detected above GCLs in MW-3 and the duplicate for both monitoring events this quarter. All other wells showed analyte concentrations below GCLs for this event.

**Table 3a Groundwater Analytical Results, May Event**  
Samples collected on May 20, 2024

| ID              | BENZENE       | TOLUENE    | ETHYL-BENZENE | TOTAL XYLENE | GRO         | DRO           | 1,2,4-TMB     | 1,3,5-TMB    | NAPH-THALENE <sup>1</sup> | SODIUM    |
|-----------------|---------------|------------|---------------|--------------|-------------|---------------|---------------|--------------|---------------------------|-----------|
| UNITS           | mg/L          | mg/L       | mg/L          | mg/L         | mg/L        | mg/L          | mg/L          | mg/L         | mg/L                      | mg/L      |
| MW-3            | <b>0.0139</b> | 0.209      | <b>0.395</b>  | <b>4.41</b>  | <b>10.1</b> | <b>2.14 B</b> | <b>0.801</b>  | <b>0.255</b> | <b>0.0216</b>             | 49.6      |
| DUP 1 (of MW-3) | <b>0.0146</b> | 0.176      | <b>0.330</b>  | <b>4.04</b>  | <b>8.84</b> | <b>1.79 B</b> | <b>0.768</b>  | <b>0.235</b> | <b>0.0205</b>             | 50.1      |
| MW17-2          | 0.00104       | 0.00231    | <b>0.0218</b> | 0.0957       | 0.637       | 0.931 B       | <b>0.127</b>  | 0.0208       | 0.00127                   | 250       |
| MW17-5          | <b>0.0159</b> | 0.0846     | <b>0.109</b>  | <b>0.364</b> | 0.986       | 0.287 B J     | <b>0.0932</b> | 0.0338       | U(0.000250)               | 10.7      |
| GCLs            | <b>0.0046</b> | <b>1.1</b> | <b>0.015</b>  | <b>0.19</b>  | <b>2.2</b>  | <b>1.5</b>    | <b>0.056</b>  | <b>0.06</b>  | <b>0.0017</b>             | <b>NA</b> |

**Table 3b Groundwater Analytical Results, June Event**  
Samples collected on June 11, 2024

| ID            | BENZENE         | TOLUENE    | ETHYL-BENZENE | TOTAL XYLENE | GRO         | DRO         | 1,2,4-TMB    | 1,3,5-TMB    | NAPH-THALENE <sup>1</sup> | SODIUM    |
|---------------|-----------------|------------|---------------|--------------|-------------|-------------|--------------|--------------|---------------------------|-----------|
| UNITS         | mg/L            | mg/L       | mg/L          | mg/L         | mg/L        | mg/L        | mg/L         | mg/L         | mg/L                      | mg/L      |
| MW-2          | 0.000439 J      | U(0.00100) | 0.00353       | 0.00365      | 0.0914 J    | 0.334 J     | 0.00223      | 0.00410      | U(0.000250)               | 10.6      |
| MW-3          | <b>0.0134 J</b> | 0.176      | <b>0.554</b>  | <b>5.61</b>  | <b>14.9</b> | <b>1.75</b> | <b>1.88</b>  | <b>0.571</b> | <b>0.0239</b>             | 48.9      |
| DUP (of MW-3) | <b>0.0130 J</b> | 0.179      | <b>0.509</b>  | <b>5.51</b>  | <b>13.5</b> | <b>2.24</b> | <b>1.83</b>  | <b>0.549</b> | <b>0.0248</b>             | 48.7      |
| MW-6          | U(0.00100)      | U(0.00100) | U(0.00100)    | U(0.00300)   | U(0.100)    | U(0.800)    | U(0.00100)   | U(0.00100)   | U(0.000250)               | 7.46      |
| MW-10         | U(0.00100)      | U(0.00100) | U(0.00100)    | U(0.00300)   | U(0.100)    | U(0.800)    | U(0.00100)   | U(0.00100)   | U(0.000250)               | 9.30      |
| MW17-2        | 0.000864 J      | 0.000298 J | 0.00249       | 0.000648 J   | 0.337       | 0.725 J     | U(0.00100)   | U(0.00100)   | U(0.000250)               | 809       |
| MW17-5        | 0.00308         | 0.000399 J | 0.000419 J    | U(0.00300)   | 0.187       | U(0.800)    | U(0.00100)   | U(0.00100)   | 0.000273                  | 265       |
| GCLs          | <b>0.0046</b>   | <b>1.1</b> | <b>0.015</b>  | <b>0.19</b>  | <b>2.2</b>  | <b>1.5</b>  | <b>0.056</b> | <b>0.06</b>  | <b>0.0017</b>             | <b>NA</b> |

|      |             |   |      |  |
|------|-------------|---|------|--|
| Key: | 1           | Results from VOC Method 8270 D                                | GCLs | Groundwater cleanup levels, 18 AAC 75.345, Table C, (9/18/2019)            |
|      | B           | Analyte found in associated blank.                            | GRO  | Gasoline range organics analyzed by AK101.                                 |
|      | <b>Bold</b> | Concentration or estimated quantitation limit exceeds the GCL | J    | The identification of the analyte is acceptable; reported value estimated. |
|      | TMB         | Trimethylbenzene  | DUP  | Duplicate sample of the preceding sample                                   |
|      |             |   | DRO  | Diesel Range Organics analyzed by AK 102                                   |

#### 4.4 QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) REVIEW

PACE Analytical met all laboratory QA/QC criteria during the analysis of groundwater samples for this sampling event. **Table 4** provides a summary of the laboratory QC objectives and outcomes for this monitoring event. Laboratory QC data and the ADEC Laboratory Data Review Checklist are included with the laboratory report in **Appendix E**.

Sample DUP is a quality control duplicate of Sample MW-3. The duplicate sample set was collected to determine the precision of the field collection and laboratory analyses for this sampling event. Data presented in **Table 4** show that the precision for the duplicate sample set did not exceed the established QA criteria tolerance for any analyte. The holding times were within established criteria.

**Table 4 Laboratory Quality Control Objectives**  
Samples collected on May 20 and June 11, 2024

| Quality Control Designation | Tolerance | Results for This Event |                 |
|-----------------------------|-----------|------------------------|-----------------|
| Holding Times               |           | 5/20/2024              | 6/11/2024       |
| DRO/Water/to analyze        | 40 days   | 5 days                 | 4 days          |
| GRO/Water/to analyze        | 14 days   | 13 days                | 4 days          |
| VOCs/Water/to analyze       | 14 days   | 9 days                 | 7 days          |
| Field Duplicate – Precision |           | DUP (5/20/2024)        | DUP (6/11/2024) |
| Benzene/Water               | ± 30%     | 5.0%                   | 3.0%            |
| Ethylbenzene/Water          | ± 30%     | 17.1%                  | 1.7%            |
| Toluene/Water               | ± 30%     | 17.9%                  | 8.5%            |
| Xylenes/Water               | ± 30%     | 8.8%                   | 1.8%            |
| GRO/Water                   | ± 30%     | 13.3%                  | 9.9%            |
| DRO/Water                   | ± 30%     | 17.8%                  | 24.6%           |
| 1,2,4-TMB                   | ± 30%     | 4.2%                   | 2.7%            |
| 1,3,5-TMB                   | ± 30%     | 8.2%                   | 3.9%            |
| Naphthalene                 | ± 30%     | 5.2%                   | 3.7%            |
| Sodium                      | ± 30%     | 1.0%                   | 0.4%            |

|      |     |   |             |  |
|------|-----|---|-------------|--|
| Key: | %   | Absolute value percentage of variance                     | PAH         | Polycyclic aromatic hydrocarbon                        |
|      | ±   | Absolute Value  | VOC         | Volatile organic compound                              |
|      |     |   | TMB         | Trimethylbenzene                                       |
|      |     |   | <b>BOLD</b> | Exceeds precision tolerance                            |
|      |     |   | NC          | Not Calculated, undetected in primary and/or duplicate |
|      | DRO | diesel range organics                                     |             |  |
|      | GRO | gasoline range organics                                   |             |  |
|      | 1   | Maximum time. Some samples extracted or analyzed earlier. |             |  |



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## 5.0 IN-SITU CHEMOX REMEDIATION

Groundwater contamination is treated in-situ through monthly injections of the chemox product Klozur<sup>®</sup> One. Chemox monthly events resumed May 20, 2024, after winter break-up so solution could be mixed without freezing prior to injection.

Monthly injection of chemox occurred on May 20 and June 12, 2024. Each monthly remediation event involved the injection of 440 pounds (eight 55-pound bags) of Klozur One<sup>®</sup> product combined with 440 gallons of potable water injected by gravity into each of the injection wells (IW-2022A, IW-2022B, IW-2022C, and IW-2022D). The chemox solution was hydraulically “pushed” into the formation with additional injection of several hundred gallons of potable water into each of the injection wells.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

The following summarizes laboratory test results that exceeded the GCLs for the groundwater monitoring event in May 2024:

- MW-3: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, GRO, DRO, and naphthalene
- MW17-2: Ethylbenzene and 1,2,4-TMB
- MW17-5: Benzene, total xylenes, and 1,2,4-TMB

The following summarizes laboratory test results that exceeded the GCLs for the second quarterly groundwater monitoring event in June 2024:

- MW-3: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, GRO, DRO, and naphthalene

Chemox monthly injection occurred on May 20 and June 12, 2024.

The groundwater direction of flow was found to be 52° to the northeast with a gradient of 0.088 feet per foot. This is generally consistent with previous monitoring events.

No anomalies were found during the second quarter 2024 monitoring event that would require additional corrective action or changes to the approved year 2024 Corrective Action Work Plan for this site.

## 7.0 LIMITATIONS

Stantec conducted this monitoring event in accordance with the 2024 Corrective Action Work Plan approved by ADEC, and in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. All sampling activities were completed in accordance with the ADEC *Underground Storage Tanks Procedures Manual – Standard Sampling Procedures* (March 22, 2017). The conclusions in this report are Stantec’s professional opinion, as of the time of the report, and concerning the scope described in the report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. This report relates solely to the specific project for which Stantec was retained and the stated purpose for which the report was prepared. The report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient’s own risk.

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## **FIGURES**

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|          |                                |
|----------|--------------------------------|
| Figure 1 | Location and Vicinity Map      |
| Figure 2 | Site Map with Analytical Data  |
| Figure 3 | Groundwater Elevation Contours |

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COLONIAL PLAZA MALL  
DRINKING WELL,  
MORNING STAR SUB. TRACT D  
APPROXIMATELY 180'  
NORTH OF THIS POINT

| SITE DATA COMPARED TO |                           | ADEC Groundwater Cleanup Levels (GCLs) |             |
|-----------------------|---------------------------|--|-------------|
| ND                    | NOT DETECTED              | 124-TMB                                | 0.056 mg/L  |
| -                     | NOT SAMPLED               | 135-TMB                                | 0.06 mg/L   |
| 50                    | SAMPLED & UNDER CRITERION | BENZENE                                | 0.0046 mg/L |
| 100                   | SAMPLED & OVER CRITERION  | DRO                                    | 1.5 mg/L    |
| FP                    | FREE PRODUCT              | ETHYLBENZENE                           | 0.015 mg/L  |
| DISPLAYED IN mg/L     |                           | GRO                                    | 2.2 mg/L    |
|                       |                           | NAPHTHALENE                            | 0.0017 mg/L |
|                       |                           | SODIUM                                 |             |
|                       |                           | TOLUENE                                | 1.1 mg/L    |
|                       |                           | XYLENES                                | 0.19 mg/L   |

TRACT A-1

| MW-10        | 5/20/24 | 6/11/24     |
|--------------|---------|-------------|
| 124-TMB      | --      | U(0.00100)  |
| 135-TMB      | --      | U(0.00100)  |
| BENZENE      | --      | U(0.00100)  |
| DRO          | --      | U(0.800)    |
| ETHYLBENZENE | --      | U(0.00100)  |
| GRO          | --      | U(0.100)    |
| NAPHTHALENE  | --      | U(0.000250) |
| SODIUM       | --      | 9.3         |
| TOLUENE      | --      | U(0.00100)  |
| XYLENES      | --      | U(0.00300)  |

| MW17-5       | 5/20/24     | 6/11/24    |
|--------------|-------------|------------|
| 124-TMB      | 0.0932      | U(0.00100) |
| 135-TMB      | 0.0338      | U(0.00100) |
| BENZENE      | 0.0162      | 0.00308    |
| DRO          | 0.287       | U(0.800)   |
| ETHYLBENZENE | 0.109       | 0.000419   |
| GRO          | 0.986       | 0.187      |
| NAPHTHALENE  | U(0.000250) | 0.000273   |
| SODIUM       | 10.7        | 265        |
| TOLUENE      | 0.0846      | 0.000399   |
| XYLENES      | 0.364       | U(0.00300) |

| MW-6         | 5/20/24 | 6/11/24     |
|--------------|---------|-------------|
| 124-TMB      | --      | U(0.00100)  |
| 135-TMB      | --      | U(0.00100)  |
| BENZENE      | --      | U(0.00100)  |
| DRO          | --      | U(0.800)    |
| ETHYLBENZENE | --      | U(0.00100)  |
| GRO          | --      | U(0.100)    |
| NAPHTHALENE  | --      | U(0.000250) |
| SODIUM       | --      | 7.46        |
| TOLUENE      | --      | U(0.00100)  |
| XYLENES      | --      | U(0.00300)  |

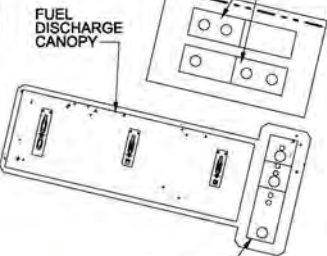
| MW17-2       | 5/20/24 | 6/11/24     |
|--------------|---------|-------------|
| 124-TMB      | 0.127   | U(0.00100)  |
| 135-TMB      | 0.0208  | U(0.00100)  |
| BENZENE      | 0.00104 | 0.000864    |
| DRO          | 0.931   | 0.725       |
| ETHYLBENZENE | 0.0218  | 0.00249     |
| GRO          | 0.637   | 0.337       |
| NAPHTHALENE  | 0.00127 | U(0.000250) |
| SODIUM       | 250     | 809         |
| TOLUENE      | 0.00231 | 0.000298    |
| XYLENES      | 0.0957  | 0.000648    |

| MW-2         | 5/20/24 | 6/11/24     |
|--------------|---------|-------------|
| 124-TMB      | --      | 0.00223     |
| 135-TMB      | --      | 0.0041      |
| BENZENE      | --      | 0.000439    |
| DRO          | --      | 0.334       |
| ETHYLBENZENE | --      | 0.00353     |
| GRO          | --      | 0.0814      |
| NAPHTHALENE  | --      | U(0.000250) |
| SODIUM       | --      | 10.6        |
| TOLUENE      | --      | U(0.00100)  |
| XYLENES      | --      | 0.00365     |

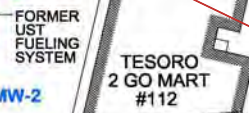
| MW-3         | 5/20/24 | 6/11/24 |
|--------------|---------|---------|
| 124-TMB      | 0.801   | 1.88    |
| 135-TMB      | 0.255   | 0.571   |
| BENZENE      | 0.0146  | 0.0134  |
| DRO          | 2.14    | 2.24    |
| ETHYLBENZENE | 0.395   | 0.554   |
| GRO          | 10.1    | 14.9    |
| NAPHTHALENE  | 0.0216  | 0.0248  |
| SODIUM       | 50.1    | 48.9    |
| TOLUENE      | 0.209   | 0.179   |
| XYLENES      | 4.41    | 5.61    |

- LEGEND:**
- PROPERTY LINE
  - ▲ MONITORING WELL
  - PP POWER POLE
  - UST UNDERGROUND STORAGE TANK

BADGER ROAD



FORMER UST (DECOMMISSIONED IN PLACE)



TESORO 2 GO MART #112

LOT 8  
MORNINGSTAR SUBDIVISION  
PLAT NO. 84-137  
BLOCK THREE

BEAVER SPRINGS CREEK

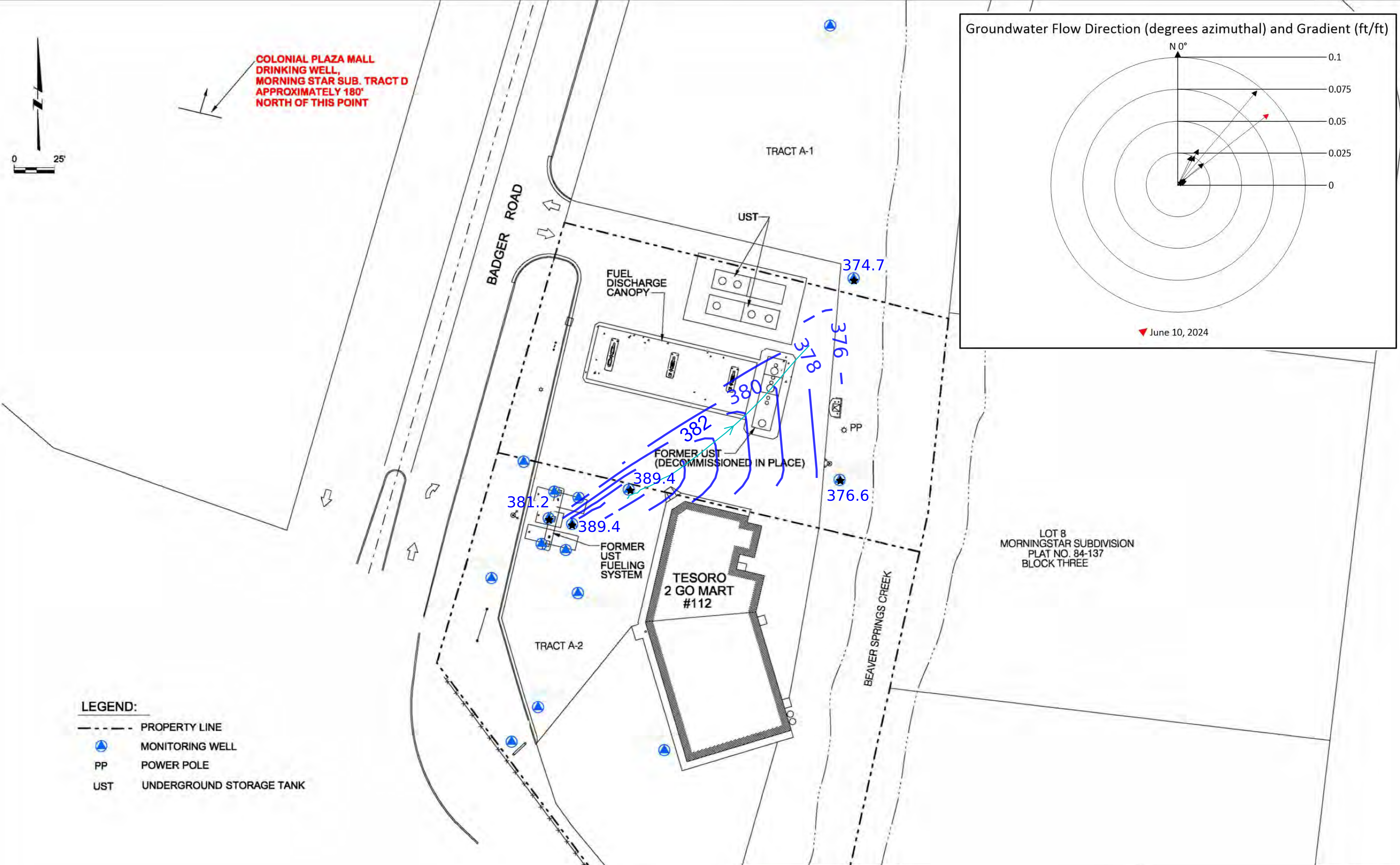
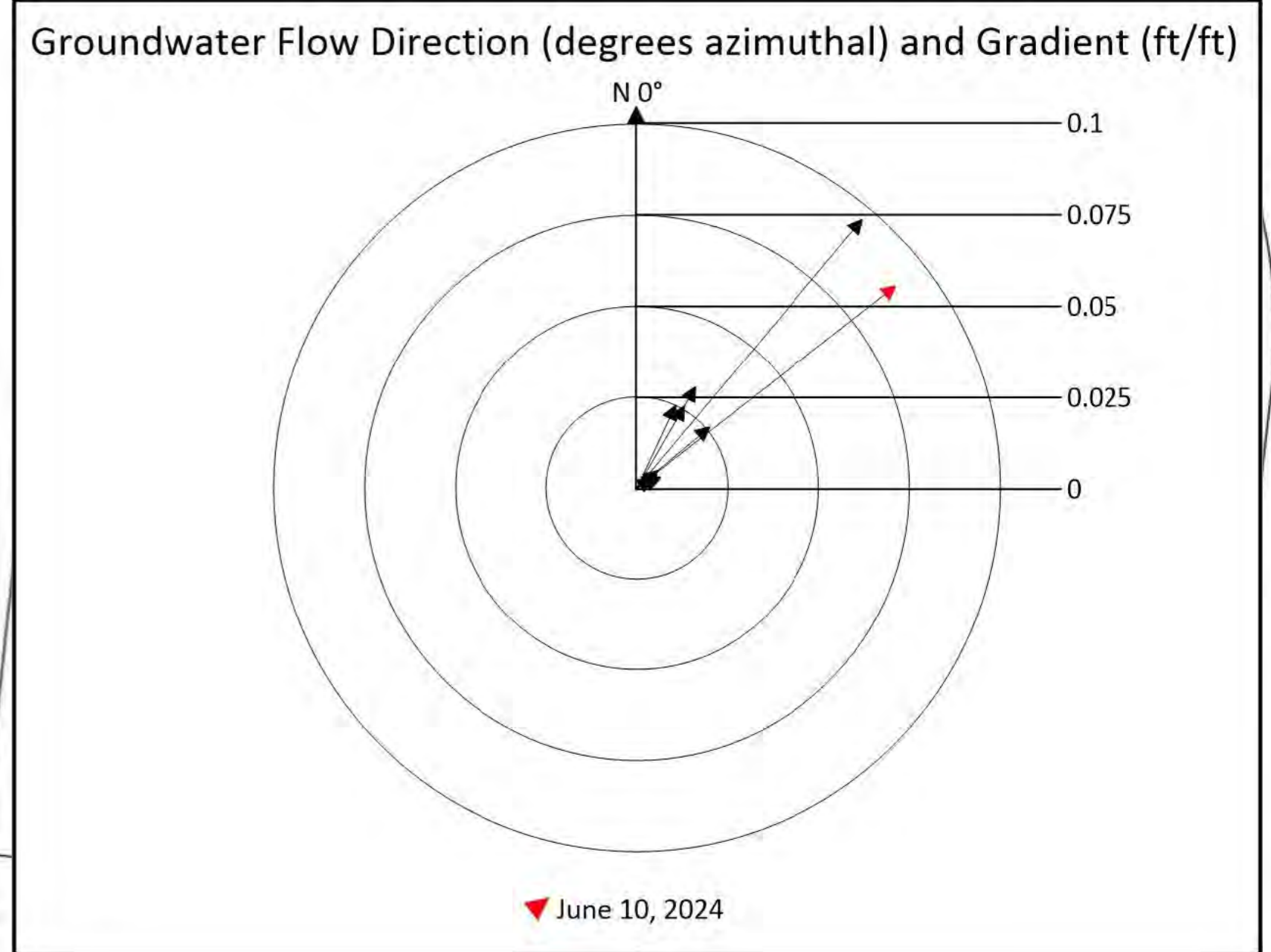


Speedway 5310  
(7-Eleven 43003 - Former TNS 112)  
2Q June GWM Event

Site Map with Analytical  
Data Results



COLONIAL PLAZA MALL DRINKING WELL, MORNING STAR SUB. TRACT D APPROXIMATELY 180° NORTH OF THIS POINT



- LEGEND:**
- PROPERTY LINE
  - ▲ MONITORING WELL
  - PP POWER POLE
  - UST UNDERGROUND STORAGE TANK

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## **APPENDIX A**

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### *Site Background*

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## APPENDIX A – SITE BACKGROUND

**Speedway Store 5310** located at 3392 Badger Road, North Pole, Alaska  
**ADEC Facility ID #1116; ADEC File #100.26.159**

Speedway Store 5310 (formerly Tesoro North Store #112) is a retail fuel service/convenience store located northeast of the Richardson Highway overpass on Badger Road in North Pole, Alaska. The property is approximately 1.9 acres in size and the legal description is Tract A-2, Morningstar Subdivision. The store is in the north end of a small strip mall. Beaver Springs Creek flows to the north immediately behind the strip mall. Three underground storage tanks (USTs) were initially installed to serve the original convenience store in December 1984.

**November 1996.** During field installation of a cathodic protection system on the USTs, a petroleum hydrocarbon release was discovered in several subsurface boreholes drilled around the perimeter of the USTs.

**May 1997.** Gilfilian Engineering and Environmental Testing, Inc. (GE<sup>2</sup>T) completed a Phase 1 Release Investigation (RI) at the site and installed four groundwater monitoring wells. In addition, representative water samples were collected from the mall drinking water system (served by an on-site water well) and from Beaver Springs Creek. Petroleum contaminants were detected above Alaska Department of Environmental Conservation (ADEC) cleanup levels in samples collected from all four soil borings/monitoring wells. Petroleum contaminants were detected at very low concentrations in the creek water samples, and none in the drinking water sample.

**September 1997.** Free phase petroleum was discovered in two of the four groundwater monitoring wells at the site, and dissolved petroleum contaminants was detected above ADEC groundwater cleanup levels (GCLs) in the other two monitoring wells.

**March 1998.** A well search was conducted within a ¼-mile radius of the site. The findings of the well search noted there were approximately 24 domestic water supply wells within the search radius.

**August/September 1998.** GE<sup>2</sup>T conducted a UST Closure Site Assessment (SA) at the site. Three USTs and associated piping and dispensers were removed from the site and a new UST system was installed on an adjacent downgradient lot (to the north) of the site on Tract A-1 Morning Star Subdivision. Petroleum hydrocarbon contamination was found in the monitoring wells constructed in the area of the former and new UST systems. Seven soil vapor extraction (SVE) wells and sixteen air sparge (AS) wells systems were installed at the site for remediation of contamination found in the vadose soil zone and groundwater table beneath the site. Additional AS and SVE wells were installed at a later date.

**September 1999.** An SA was completed for the removal of the new UST that were installed in September 1998 and replace with a new UST. Soil contamination was discovered in the area of



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the replacement UST system. Contaminated soil was removed and transported off-site for thermal treatment.

**June 2000.** GE<sup>2</sup>T conducted a RI for installation of an additional monitoring well (MW-6) at the site. No contaminants were detected in soil samples from the boring.

**March 2001.** A Falco 300 Cat-Ox unit was installed as part of the remediation system to treat vapors captured in the SVE system.

**September/October 2003.** MWH Americas, Inc. (MWH) completed a RI that included the installation of additional AS and groundwater monitoring wells. The RI involved drilling five soil borings, of which four were completed as AS wells (AS-20, AS-21, AS-22, and AS-23) and one monitoring well (MW-7). Contaminants were detected in soil from borings MW-7, AS-20, and AS-21 and the water sample from MW-7.

**March 2004.** MWH completed a RI that involved the drilling two soil borings. These borings were completed as 2-inch diameter monitoring wells (MW-8 and MW-9). Laboratory results indicate that no contaminants were detected in the soil or groundwater samples collected.

**September 2004.** MWH completed a RI that involved the drilling of one soil boring. The boring that was completed as 2-inch diameter monitoring well (MW-10). Laboratory results indicate that no contaminants were detected in the soil samples collected. Benzene was detected above the GCL water sample collected from MW-10.

**May 2005.** Benzene, toluene, ethylbenzene, GRO, and DRO were detected above the ADEC GCLs in Monitoring Well MW-3. Benzene, GRO, and DRO were also detected above the GCLs in Monitoring Well MW-2. No analytes of concern were detected above the GCLs in any of the other tested wells. The AS and SVE systems remained in operation.

**September 2005.** Benzene, GRO, and DRO were detected above the ADEC GCLs in Monitoring Wells MW-2 and MW-3. Toluene was also detected above the GCL in Monitoring Well MW-3. No analytes of concern were detected above the GCLs in Monitoring Well MW-10. The AS and SVE systems remained in operation. The SVE exhaust vapor concentrations had decreased to a relatively low level that no longer necessitated the use of the catalytic oxidizer unit. Therefore, the catalytic oxidizer was disconnected from the SVE system in summer 2005.

**May 2006.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above the ADEC GCLs in Monitoring Well MW-3. GRO and DRO were also detected above the GCLs in Monitoring Well MW-2. No analytes of concern were detected above the GCLs in Monitoring Wells MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, and MW-10. The AS and SVE system were shut down until system maintenance could be performed.

**November 2006.** Benzene, toluene, ethylbenzene, and gasoline range organics were detected above the ADEC GCLs in Monitoring Wells MW-2 and MW-3. Xylenes and diesel range organics were also detected above the GCLs in Monitoring Well MW-3. No analytes of concern were

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detected above the GCLs in Monitoring Well MW-10. AS and SVE system were brought back online after system repair was performed.

**May 2007.** GRO and DRO were detected above the ADEC GCLs in Monitoring Wells MW-2 and MW-3. Benzene, toluene, ethylbenzene, and xylenes were detected above the practical quantitation limits (PQLs) in Monitoring Wells MW-2 and MW-3, but only benzene was above the GCL. DRO was detected above the PQL, but below the GCL, in Monitoring Wells MW-4 and MW-5. No analytes of concern were detected above the PQLs in Monitoring Wells MW-1, MW-6, MW-8, MW-9, and MW-10. AS and SVE system remain in operation.

**April 2008.** DRO was detected above the ADEC GCLs in Monitoring Wells MW-2, MW-3, and MW-4. GRO were detected above the ADEC GCLs in Monitoring Wells MW-3 and MW-4. Benzene was also detected above the GCLs in Monitoring Well MW-3. DRO in Monitoring Well MW-1; ethylbenzene, xylenes, and GRO in MW-2; toluene, ethylbenzene, and xylenes in Monitoring Well MW-3; and benzene, toluene, ethylbenzene, and xylenes in Monitoring Well MW-4 were detected above the PQLs, but below the GCLs. No analytes were detected above the PQLs in Monitoring Wells MW-5 through MW-10. AS and SVE system remain in operation.

**October 2008.** DRO were detected above the ADEC GCL in Monitoring Well MW-3. GRO were detected above the GCL in Monitoring Wells MW-2 and MW-3. All other analytes were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-2 and MW-3. No analytes were detected above the PQLs in Monitoring Well MW-10. AS and SVE system remain in operation.

**May 2009.** Diesel range organics were detected above the ADEC GCLs in Monitoring Wells MW-1, MW-2, and MW-3. GRO were detected above the GCL in Monitoring Wells MW-2 and MW-3. Benzene was detected above the GCL in Monitoring Well MW-3. All other analytes were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-2 and MW-3. Toluene in Monitoring Wells MW-1 through MW-4, and MW-8; ethylbenzene in Monitoring Wells MW-1 through MW-3, MW-7, and MW-8; xylenes in Monitoring Wells MW-1 through MW-4 and MW-7 through MW-9; and GRO in Monitoring Well MW-7 were detected above PQLs but below GCLs. All other analytes in the above wells sampled were not detected above the PQLs. No analytes were detected above the PQLs in Monitoring Wells MW-5, MW-6, and MW-10. AS and SVE system remain in operation.

**October 2009.** All analytes tested were detected above the ADEC GCLs in Monitoring Well MW-3. Ethylbenzene and gasoline range organics were detected above the GCLs in Monitoring Well MW-2. Benzene, toluene, xylenes, and diesel range organics were detected above the practical quantitation limits, but below the GCLs, in Monitoring Well MW-2. No analytes of concern were detected above the practical quantitation limits in Monitoring Well MW-10. AS and SVE system remain in operation.

**June 2010.** Benzene, GRO, and DRO were detected above the ADEC groundwater cleanup levels GCLs in Monitoring Well MW-3. Toluene, ethylbenzene, and xylenes were detected above the PQLs, but below the GCLs, in Monitoring Well MW-3. Benzene, toluene, ethylbenzene, xylenes, and GRO were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-1 and

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MW-2. DRO was also detected above the PQL, but below the GCL, in Monitoring Well MW-2. No analytes of concern were detected above the PQLs in Monitoring Wells MW-4, MW-6, or MW-10. AS and SVE system remain in operation. Measurements of the SVE exhaust with a PID indicated low amounts of volatile petroleum hydrocarbons are being removed from the vadose soil zone.

**October 2010.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above the ADEC GCLs in Monitoring Well MW-3. GRO was detected above the GCL in Monitoring Well MW-2. Benzene, toluene, ethylbenzene, xylenes, and DRO were detected above the PQLs, but below the GCLs, in Monitoring Well MW-2. No analytes of concern were detected above the PQLs in Monitoring Well MW-10. AS and SVE system remain in operation.

**May 2011.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above the ADEC GCLs in Monitoring Well MW-3. GRO and DRO were detected above the GCL in Monitoring Well MW-2. Benzene, toluene, ethylbenzene, and xylenes were detected above the PQLs, but below the GCLs, in Monitoring Well MW-2. Toluene, ethylbenzene, xylenes, GRO, and DRO were also detected above the PQLs, but below the GCLs, in Monitoring Well MW-1. Benzene was not detected above the PQL in Monitoring Well MW-1. No analytes of concern were detected above the PQLs in Monitoring Wells M-4, MW-6, and MW-10. AS and SVE system remain in operation.

**October 2011.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above the ADEC GCLs in Monitoring Well MW-3. GRO was detected above the GCL in Monitoring Well MW-2. Ethylbenzene, xylenes, and DRO were detected above the PQLs, but below the GCLs, in Monitoring Well MW-2. Benzene and toluene were not detected above the PQLs in MW-2; however, the PQL for benzene is above the GCL and the result might exceed the GCL. No analytes of concern were detected above the PQLs in Monitoring Wells MW-6 and MW-10. The AS and SVE systems remain in operation on a full-time basis.

**May 2012.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. Benzene and GRO were detected above GCLs in Monitoring Well MW-2. Benzene, toluene, ethylbenzene, xylenes, and GRO were detected above PQLs and below GCLs in Monitoring Well MW-1. Toluene, ethylbenzene, and xylenes were detected above PQLs and below GCLs in Monitoring Well MW-2. No other analytes were detected above the PQLs in any of the samples collected during this monitoring event. The AS and SVE systems remained in operation on a full-time basis.

**October 2012.** Benzene and GRO were detected above GCLs in Monitoring Well MW-3. Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above PQLs and below GCLs in Monitoring Well MW-2. Toluene, ethylbenzene, xylenes, and DRO were detected above PQLs and below GCLs in Monitoring Well MW-3. The AS and SVE systems were taken offline pending repairs and improvements. A total of 130 gallons of Klozur CR<sup>®</sup> was applied at the site over two events. Approximately 10 gallons of Klozur CR<sup>®</sup> was poured into SVE-7, and approximately 55 gallons into SVE-9 on August 29, 2012. Additionally, 65 gallons of Klozur CR<sup>®</sup> were injected into Well SVE-9 on October 9, 2012.

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**May 2013.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. Benzene, ethylbenzene, xylenes, GRO, and DRO were detected above PQLs but below GCLs in Monitoring Well MW-1. Benzene, toluene, ethylbenzene, xylenes, and GRO were detected above PQLs but below GCLs in Monitoring Well MW-2. The AS and SVE systems remain offline pending repairs and improvements.

**September 2013.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. GRO was detected above GCL in Monitoring Well MW-2. Benzene, toluene, ethylbenzene, xylenes, and DRO were detected above PQLs but below GCLs in Monitoring Well MW-2. The AS and SVE systems remain offline pending repairs and improvements.

**May 2014.** Benzene, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. Ethylbenzene, xylenes, and DRO were detected above PQL and below GCLs in Monitoring Well MW-1. Benzene, ethylbenzene, xylenes, GRO, and DRO were detected above PQLs but below GCLs in Monitoring Well MW-2. Toluene, ethylbenzene, and xylenes were detected above PQLs and below GCLs in Monitoring Well MW-3. Xylenes were detected above PQLs but below GCLs in Monitoring Well MW-10. The AS and SVE systems remain offline pending repairs and improvements.

**September 2014.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. Benzene, toluene, ethylbenzene, xylenes, and GRO were detected above PQLs and below GCLs in Monitoring Well MW-2. The AS and SVE systems remain offline pending repairs and improvements.

**May 2015.** Benzene, toluene, ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. DRO was detected above GCL in Monitoring Wells MW-1 and MW-2. Toluene, ethylbenzene, xylenes, and GRO were detected above PQLs but below GCLs in Monitoring Well MW-1. Benzene, ethylbenzene, xylenes, and GRO were detected above PQLs but below GCLs in Monitoring Well MW-2. DRO was detected above PQL but below GCL in Monitoring Well MW-4. The AS and SVE systems remain offline pending repairs and improvements.

**October 2015.** Benzene and GRO were detected above GCLs in Monitoring Well MW-2. Benzene, toluene, ethylbenzene, total xylenes, GRO, and DRO were detected above GCLs in Monitoring Well MW-3. One or more analytes were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-2 (all analytes), MW-6 (DRO), and MW-10 (DRO). The AS and SVE systems remain offline pending repairs and improvements. Chemical oxidation of the groundwater at the site was conducted on October 6, 2015, with the injection of Klozur CR<sup>®</sup> into Injection Well SVE-6 and well clusters SVE-7 and SVE-9 located at the footprint of the former underground storage tanks (USTs – Figure 3). Follow-up intrinsic measurements indicated negligible influence of the injection on groundwater at Monitoring Well MW-3.

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**May 2017.** Results of analytical sampling showed concentrations exceeding the GCLs for:

- Monitoring Well MW-1: ethylbenzene, xylenes, 1,2,4-trimethylbenzene, and DRO.
- Monitoring Well MW-2: ethylbenzene, xylenes, 1,2,4-trimethylbenzene, naphthalene, and GRO.
- Monitoring Well MW-3: benzene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, GRO, and DRO.

One or more analytes were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-1, MW-2, MW-3, MW-4, and MW-10.

**September 2017:** Results of the semi-annual groundwater monitoring event conducted in September 2017 showed concentrations exceeding the GCLs for ethylbenzene in Monitoring Well MW-2; and benzene, ethylbenzene, xylenes, GRO, and DRO in MW-3. Monitoring Wells MW-6 and MW-10 were found to be absent of contaminants of concern. These findings are similar to results found in previous monitoring events

**June 2018.** Results of analytical sampling showed concentrations exceeding the GCLs for:

- Monitoring Well MW-1: 1,2,4-trimethylbenzene.
- Monitoring Well MW-2: ethylbenzene, 1,2,4-trimethylbenzene, benzopyrene, and indenopyrene.
- Monitoring Well MW-3: benzene, ethylbenzene, xylenes, GRO, DRO, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene.
- Monitoring Well MW 17-5: benzene, ethylbenzene, xylenes, and 1,2,4-trimethylbenzene.

One or more analytes were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-1, MW-2, MW-3, MW-4, and MW-17-5.

**October 2018.** The following summarizes results exceeding the GCLs for the October 2018 semi-annual groundwater monitoring event:

- Monitoring Well MW-2: ethylbenzene and DRO.
- Monitoring Well MW-3: benzene, ethylbenzene, xylenes, GRO, DRO, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene.
- Monitoring Well MW 17-2: ethylbenzene, xylenes, GRO, DRO and 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene.
- Monitoring Well MW 17-5: benzene, ethylbenzene, xylenes, GRO, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene

One or more analytes were detected above the PQLs, but below the GCLs, in Monitoring Wells MW-2, MW-3, MW-6, and MW-17-5.

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In addition, several volatile organic compounds (VOCs) were reported by the laboratory as undetected but had laboratory reporting limits that equaled or exceeded their corresponding GCLs.

The chemical oxidation (chemox) treatment process was delayed until the third quarter of 2018 due to replacement of the chemical oxidant. In September 2018, Stantec completed an injection of the replacement chemox product, Klozur One<sup>®</sup>, into the four remediation wells. Klozur One<sup>®</sup> is a granular product manufactured by PeroxyChem that consists primarily of sodium persulfate and patented activator reagents. A total of 220 pounds of Klozur One<sup>®</sup> product was mixed with clean water and then manually injected as a solution into the contaminated source area via Remediation Wells RM17-1, RM17-3, RM17-4, and RM17-6. Each of the four remediation wells received 55 pounds of Klozur One<sup>®</sup> that was prepared as a solution with 50 gallons of clean water. Following the injection of the chemox solution, a combined total of 550 gallons of clean water was injected in all the wells. It was noted that each of the remediation wells had different acceptance rates for delivery of the clean water that ranged from 55 to 210 gallons each.

**May 2019.** This May 2019 semi-annual groundwater monitoring event included measuring the depth to groundwater, measuring water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-10, MW 17-2, and MW 17-5. The methods that were used for this monitoring event were conducted in accordance with the Alaska Department of Environmental Conservation (ADEC) approved 2019 Corrective Action Work Plan for this site.

Results from the groundwater depth measurements indicate the average hydraulic gradient was approximately 0.003 feet per foot with flow tending toward the northeast at 55 degrees. The flow direction and gradient for this monitoring event were consistent with the historical values for this site.

Results of the analytical sampling showed concentrations exceeding the ADEC groundwater cleanup levels (GCLs) for the following monitoring wells:

- Monitoring Well MW-2: ethylbenzene.
- Monitoring Well MW-3: benzene, ethylbenzene, xylenes, gasoline range organics (GRO), and naphthalene.
- Monitoring Well MW 17-5: ethylbenzene.

**October 2019.** This October 2019 semi-annual groundwater monitoring event included measuring the depth to groundwater, measuring water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-10, MW 17-2, and MW 17-5. The methods that were used for this monitoring event were conducted in accordance with the ADEC approved 2020 Corrective Action Work Plan for this site.

Results from the groundwater depth measurements indicate the average hydraulic gradient was approximately 0.005 feet per foot with flow tending toward the northeast at 64 degrees. The flow

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direction and gradient for this monitoring event were consistent with the historical values for this site.

Results of the analytical sampling showed concentrations exceeding the ADEC GCLs for the following monitoring wells:

- Monitoring Well MW-2: ethylbenzene.
- Monitoring Well MW-3: benzene, ethylbenzene, xylenes, GRO, and DRO.
- Monitoring Well MW 17-2: ethylbenzene, xylenes, and GRO.
- Monitoring Well MW 17-5: benzene, ethylbenzene, xylenes, and GRO.

Stantec completed an injection of 220 pounds of the chemox product, Klozur One<sup>®</sup>, into the four remediation wells (RW17-1, RW17-3, RW17-4, and RW17-6).

**August 2020.** The semi-annual groundwater monitoring event included measuring the depth to groundwater, measuring water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells MW-2, MW-3, MW-6, MW-10, MW17-2, and MW17-5. The methods that were used for this monitoring event were conducted in accordance with the Alaska Department of Environmental Conservation (ADEC) approved 2020 Corrective Action Work Plan for this site.

Results from the groundwater depth measurements indicate the average hydraulic gradient was approximately 0.005 feet per foot with flow tending toward the northeast at 67 degrees. The flow direction and gradient for this monitoring event were consistent with the historical values for this site.

The following summarizes laboratory test results that exceeded the GCLs for the August 2020 semi-annual groundwater monitoring event:

- Monitoring Well MW-3: Benzene, Ethylbenzene, Total Xylenes, 1-2-4 Trimethylbenzene, 1-3-5 Trimethylbenzene, Naphthalene, GRO, and DRO.
- Monitoring Well MW 17-2: Ethylbenzene, Total Xylenes, 1-2-4 Trimethylbenzene, 1-3-5 Trimethylbenzene, Naphthalene, and DRO.
- Monitoring Well MW 17-5: Benzene, Ethylbenzene, Total Xylenes, 1-2-4 Trimethylbenzene, 1-3-5 Trimethylbenzene, Naphthalene, and GRO.

Stantec completed an injection of 440 pounds of the chemox product, Klozur One<sup>®</sup>, into the four remediation wells (RW17-1, RW17-3, RW17-4, and RW17-6).

**October 2020.** This October 2020 semi-annual groundwater monitoring event included measuring the depth to groundwater, measuring water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells MW-2, MW-3, MW-6, MW-10, MW 17-2, and MW 17-5. The methods that were used for this monitoring event were conducted in accordance with the ADEC approved 2020 Corrective Action Work Plan for this site.

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Analytes in exceedance included: benzene, ethylbenzene, and xylenes (BTEX); gasoline range organics (GRO); diesel range organics (DRO), and naphthalene.

- MW-3: Benzene, Ethylbenzene, Total Xylenes, Naphthalene, GRO, and DRO.
- MW 17-2: Ethylbenzene, Total Xylenes, DRO, and Naphthalene.
- MW 17-5: Benzene, Ethylbenzene, Total Xylenes, and Naphthalene.

Results from the groundwater depth measurements indicate the average hydraulic gradient was approximately 0.0045 feet per foot with flow tending toward the northeast at 57 degrees. The flow direction and gradient for this monitoring event were consistent with the historical values for this site.

Stantec completed an injection of 440 pounds of the chemox product, Klozur One<sup>®</sup>, into the four remediation wells (RW17-1, RW17-3, RW17-4, and RW17-6).

**October 2021.** This October 2021 semi-annual groundwater monitoring event included measuring the depth to groundwater, measuring water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells MW-01, MW-02, MW-03, MW-04, MW-06, MW-10, MW-17-2, and MW-17-5. The methods that were used for this monitoring event were conducted in accordance with the ADEC approved 2021 Corrective Action Work Plan for this site.

The following summarizes laboratory test results that exceeded the GCLs for the October 2021 semi-annual groundwater monitoring event:

- MW-02: Naphthalene
- MW-03: Benzene, ethylbenzene, total xylenes, GRO, DRO, 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), and naphthalene.
- MW-04: DRO
- MW-17-2: Ethylbenzene, total xylenes, DRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-17-5: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB and naphthalene.

Based on the Surfer<sup>®</sup> software program, the average groundwater hydraulic gradient across the site was approximately 0.0055 feet per foot with flow tending toward the northeast at 50 degrees. The flow direction and gradient for this monitoring event were consistent with the historical values for this site.

The remediation event on October 15, 2021, consisted of a chemical oxidation (chemox) injection of Klozur<sup>®</sup> One product combined with potable water from the convenience store into four remediation wells (RW-17-1, RW-17-3, RW-17-4 and RW-17-6). Klozur<sup>®</sup> One is a granular product manufactured by PeroxyChem that consists primarily of sodium persulfate and patented activator reagents. The solution was hydraulically “pushed” into the subsurface formation with the injection of additional potable water into each well. In summary, a total of 385 pounds of Klozur<sup>®</sup> One product mixed with 1,070 gallons of water was injected into the subsurface via the remediation wells during the chemox injection process.

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**May 2022.** The May 2022 semi-annual groundwater monitoring event was conducted by Stantec Staff on May 17, 2022. Monitoring wells and the respective analytes in exceedance of ADEC GCLs included:

- MW-03: Benzene, ethylbenzene, total xylenes, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-17-2: Ethylbenzene and 1,2,4-TMB.
- MW-17-5: Benzene, toluene, ethylbenzene, total xylenes, GRO, 1,2,4-TMB, and 1,3,5-TMB.
- MW-10: Benzene.

The benzene detected in MW-10 will be further evaluated during the next monitoring event to determine the source of contamination, if possible.

The groundwater levels were measured in all of the above monitoring wells. The well casings in monitoring wells MW-6 and MW-10 were noted to be frost-jacked; consequently the groundwater elevations for this monitoring event were not computed to determine the groundwater flow direction and gradient across the site. Stantec plans to resurvey all of the monitoring wells later this summer to recompute the groundwater flow characteristics.

An injection of Klozur<sup>®</sup> One product (chemox) was not completed during the 1<sup>st</sup> quarter due to the severe winter conditions but is planned for the 2<sup>nd</sup> quarter in the month of June 2022.

**September 2022:** The groundwater monitoring event on September 26, 2022 was conducted by Stantec personnel Engineer-In-Training Geoff Moorhead and Engineer-in-Training Leslie Petre. The following summarizes laboratory test results that exceeded the GCLs for the May 2022 semi-annual groundwater monitoring event:

- MW-03: Benzene, ethylbenzene, total xylenes, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW-04: DRO.
- MW-17-2: Ethylbenzene and 1,2,4-TMB.
- MW-17-5: Benzene, toluene, ethylbenzene, total xylenes, GRO, 1,2,4-TMB, 1,3,5-TMB, and naphthalene.

The groundwater levels were measured in all monitoring wells. The groundwater direction of flow was found to be 40° to the northeast with a gradient of 0.094 feet per foot. This is generally consistent with previous monitoring events. Well casing elevations were re-surveyed July 5, 2022.

Injections of Klozur<sup>®</sup> One product (chemox) used for in-situ remediation of petroleum contaminations in groundwater were scheduled to begin in the first quarter of 2022 but did not due to frozen conditions at the site. Injections occurred monthly between June and October of 2022.

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**April 2023:** The following summarizes laboratory test results that exceeded the GCLs for the April 2023 quarterly groundwater monitoring event:

- MW-3: Benzene, ethylbenzene, total xylenes, GRO, DRO 1,2,4-TMB, and naphthalene.
- MW17-5: Ethylbenzene.

The groundwater levels were measured in all monitoring wells. The groundwater direction of flow was found to be 50° to the northeast with a gradient of 0.24 feet per foot. This is generally consistent with previous monitoring events. Well casing elevations were re-surveyed July 5, 2022.

No anomalies were found during the April 2023 quarterly monitoring event that would require additional corrective action or changes to the approved year 2023 Corrective Action Work Plan for this site.

Chemox monthly events resumed May 23, 2023, after winter break-up so solution could be mixed without flash freezing prior to injection. The May monthly chemox event on this site involve the injection of eight 55-pound bags of Klozur® One into the formation. Due to the cold temperatures of the ground water at this site, one bag of the chemical is mixed at a ratio of 1 pound per 2 gallons of water (60 g/L). This is within the manufacturer's suggested range of mixing ratios (50-200 g/L). Total chemox treatment for this site involved 440 pounds of Klozur® diluted with more than 900 gallons of water and then pushed into formation with an additional 440 gallons of water. The site has four 4" injection wells that were each dosed with 220 gallons of chemox solution followed by 110 gallons of water without issue.

**July 2023:** The following summarizes laboratory test results that exceeded the GCLs for the July 2023 quarterly groundwater monitoring event:

- MW-3: Benzene, ethylbenzene, total xylenes, GRO, DRO 1,2,4-TMB, 1,3,5-TMB, and naphthalene.
- MW17-5: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, and naphthalene

Chemox monthly injection took place on July 28, 2023. Two 55 pound bags of Klozur® One were pushed into injection wells IW2022-A, IW2022-B, IW2022-C, and IW2022-D followed by 200 gallons of water in each well to hydraulically push the chemox solution through.

The groundwater direction of flow was found to be 025° to the northeast with a gradient of 0.23 feet per foot. This is generally consistent with previous monitoring events. Well casing elevations were re-surveyed July 5, 2022.

**August 2023:** The following summarizes laboratory test results that exceeded the GCLs for the second quarterly groundwater monitoring event in August 2023:

- MW-3: Ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene
- MW17-2: 1,2,4-TMB and naphthalene
- MW17-5: Benzene

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Chemox monthly injection took place on August 23, 2023. Eight 55-pound bags of Klozur® One were injected into wells IW2022-A, IW2022-B, IW2022-C, and IW2022-D (two bags per well) followed by 440 gallons of water in each well to hydraulically push the chemox solution through.

The groundwater direction of flow was found to be 030° to the northeast with a gradient of 0.24 feet per foot. This is generally consistent with previous monitoring events. Well casing elevations were re-surveyed July 5, 2022.

**October 2023:** The following summarizes laboratory test results that exceeded the GCLs for the second quarterly groundwater monitoring event in October 2023:

- MW-3: Total xylenes, ethylbenzene, 1,2,4-TMB, and naphthalene
- Duplicate: Total xylenes, ethylbenzene, 1,2,4-TMB, and naphthalene
- MW17-5: Benzene and ethylbenzene

Chemox monthly injection did not take place this month. Chemox injections will resume in the spring when the weather starts to warm.

The groundwater direction of flow was found to be 030° to the northeast with a gradient of 0.03 feet per foot. This is generally consistent with previous monitoring events. Well casing elevations were re-surveyed July 5, 2022.

**May and June 2024:** The following summarizes laboratory test results that exceeded the GCLs for the groundwater monitoring event in May 2024:

- MW-3: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, GRO, DRO, and naphthalene
- MW17-2: Ethylbenzene and 1,2,4-TMB
- MW17-5: Benzene, total xylenes, and 1,2,4-TMB

The following summarizes laboratory test results that exceeded the GCLs for the second quarterly groundwater monitoring event in June 2024:

- MW-3: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, GRO, DRO, and naphthalene
- Duplicate: Benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, GRO, DRO, and naphthalene

Chemox monthly injection occurred on May 20 and June 12, 2024.

The groundwater direction of flow was found to be 52° to the northeast with a gradient of 0.088 feet per foot. This is generally consistent with previous monitoring events.



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**APPENDIX B**

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*Field Methods and Procedures*

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## ADEC Approved Work Plan Tasks for 2024

The following table summarizes the proposed tasks and implementation schedule for the 2024 CAP:

| Work Plan Task 2024 |   | 1 <sup>st</sup> Quarter | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> Quarter |
|---------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Task 1              | Monitoring Wells: MW-2, MW-3, MW-6, MW-10, MW17-2 and MW17-5. |                         | V, G, D, P, I & S       |                         | V, G, D, P, I, & S      |
|                     | Monitoring Wells MW-1 and MW-4                                |                         |                         |                         | V, G, D, P, I, & S      |
|                     | Monitoring Wells MW-3, MW17-2 and MW17-5                      |                         |                         | V, G, D, P, I & S       |                         |
| Task 2              | Chemical Oxidation Treatment                                  |                         | ✓                       | ✓                       | ✓                       |

Key:

AK – Alaska Test Method

D – Diesel range organics by AK102.

G – Gasoline range organics by AK101.

I – Intrinsic indicators include – dissolved oxygen, specific conductance, oxygen-reduction potential, pH, and temperature.

P – Polynuclear aromatic hydrocarbons (PAHs), i.e., semi-volatile organic compounds associated with petroleum fuel, by EPA Test Method 8270D Selective Ion Monitoring (SIM).

S – Sodium analyzed by Metals (ICP) Method 6010C.

V – Volatile organic compounds by EPA Test Method 8260C.

- Task 1 – Groundwater Monitoring

Monitoring of the on-site groundwater monitoring wells will be conducted on a variable frequency as outlined in 2024 Work Plan Schedule shown above. Sampling schedules, well locations and analyses are referenced in the 2024 Work Plan Schedule.

- Task 2 – Chemical Oxidation Treatment

Stantec proposes to provide chemical oxidation treatment of the petroleum contaminated soil and groundwater located in the source area of the former underground storage tank (UST) system. The chemox injection will occur in all four quarters of the year into the following 4-inch diameter injection wells: IW-2022A, IW-2022B, IW-2022C, and IW-2022D. Subject to suitable (non-freezing) weather conditions, Stantec will attempt to inject chemox monthly throughout the year.

Approximately 100 gallons of a prepared solution of potable water and 110 pounds of Klozur One® will be manually injected via gravity. Following the injection of the chemox solution, a minimum of 100 gallons of potable water will be injected into each injection well to provide a means of “hydraulically pushing” the chemox solution into the subsurface formation.

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The on-site monitoring wells will be sampled as described in Task 1 to assess treatment impact on the groundwater table. Also, the wells will be analyzed for sodium to check on the distribution/migration of the oxidant.

The Corrective Action Work Plan for the year 2024 will be implemented by Stantec on behalf of Speedway. Groundwater monitoring will be conducted to track migration and trends of contaminants that are present at the site.

All sampling activities will be completed in accordance with ADEC's *Underground Storage Tanks Procedures Manual– Standard Sampling Procedures* (March 22, 2017). The methods that will be used for conducting a monitoring event, unless otherwise noted in the monitoring report, will include:

- The static water levels in the monitoring wells will be measured with respect to the top of each well casing. The elevation of the static water level will be based on an arbitrary datum established on-site during a vertical control survey that will be completed by Stantec on an annual basis. The survey will be performed during the summer after the seasonal frost layer thaws.
- The monitoring wells will be purged of a minimum of three well bore volumes prior to collecting the water samples. A new, disposable, Teflon® bailer will be used to sample each well. The first bail of water removed from each well will be examined for petroleum odor, sheen, and any other unique physical features.
- Water samples will be collected in laboratory-supplied sample containers. The samples will be delivered to an ADEC-approved laboratory in accordance with standard chain-of-custody procedures.
- Additional water samples will be collected from the monitoring wells after the well has been purged, as described above, and tested in the field for chemical and physical intrinsic parameters listed in the 2024 Work Plan Schedule shown above.

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## **APPENDIX C**

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### *Field Measurements and Notes*

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## **APPENDIX D**

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### *Tables of Historical Monitoring Data*

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## **APPENDIX E**

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*Laboratory Analytical Report and ADEC  
Laboratory Data Review Checklist*

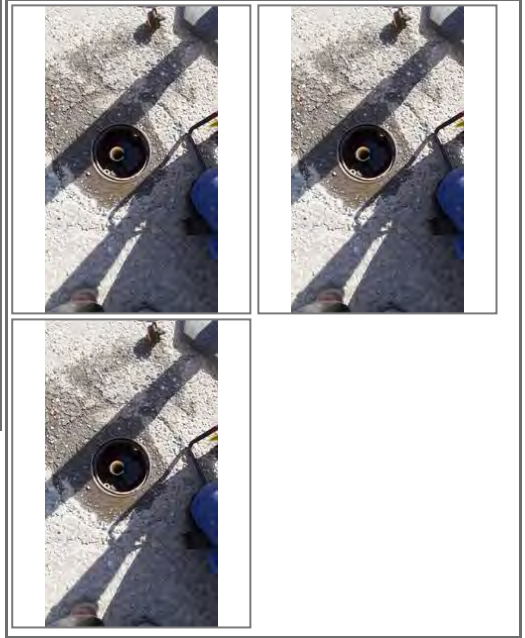
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**Site Name:** TNS #112
**Date:** 05/20/2024,  
11:06 AM
**Name(s):** Leslie Petre


| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |
|--------------------|-------------------|---------------------|---------------|
| MW17-2             | N/A               | 8.82                |               |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |
| 390.01             | 2.0               |                     | PVC           |
| Latitude (decimal) |                   | Longitude (decimal) |               |
| 64.7592928         |                   | -147.3503357        |               |

| Analytical Parameters | Bottles to be filled     |
|-----------------------|--------------------------|
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
|                       |                          |
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Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below      Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 10:49 | 8.82                | X                  |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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Sample Collected? No      Time 11:06      Total Pumped from Well? 0 Gal

**NOTES / COMMENTS:**

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #112

05/20/2024,  
Date: 11:45 AM

Leslie  
Name(s): Petre



| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |
|--------------------|-------------------|---------------------|---------------|
| MW17-5             | N/A               | 8.93                |               |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |
| 398.62             | 2.0               |                     |               |
| Latitude (decimal) |                   | Longitude (decimal) |               |
| 64.7593018         |                   | -147.3501524        |               |

| Analytical Parameters | Bottles to be filled     |
|-----------------------|--------------------------|
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
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Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below      Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 11:44 | 8.93                | <del> </del>       |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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Sample Collected? No      Time 11:45      Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #112

05/20/2024,  
Date: 3:18 PM

Leslie  
Name(s): Petre



| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |         |
|--------------------|-------------------|---------------------|---------------|---------|
| MW-3               | N/A               | 9.46                | 13.86         |         |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |         |
| 398.87             | 4.0               |                     | other         |         |
| Latitude (decimal) |                   | Longitude (decimal) |               | Weather |
| 64.759289          |                   | -147.3498645        |               |         |

| Analytical Parameters | Bottles to be filled     |
|-----------------------|--------------------------|
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
|                       |                          |
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|                       |                          |



Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below \_\_\_\_\_ Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 15:17 | 9.46                | X                  | 6.92    | X              | 749.00               | X             | --              | X                    | 3.02                | X                      | 8.40            | X             | 190.6                               | X               |
| 15:18 | 9.46                | --                 | 6.92    | X              | 749.00               | X             | --              | X                    | 3.02                | X                      | 8.40            | X             | 190.6                               | X               |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |

Sample Collected? No Time 15:18 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

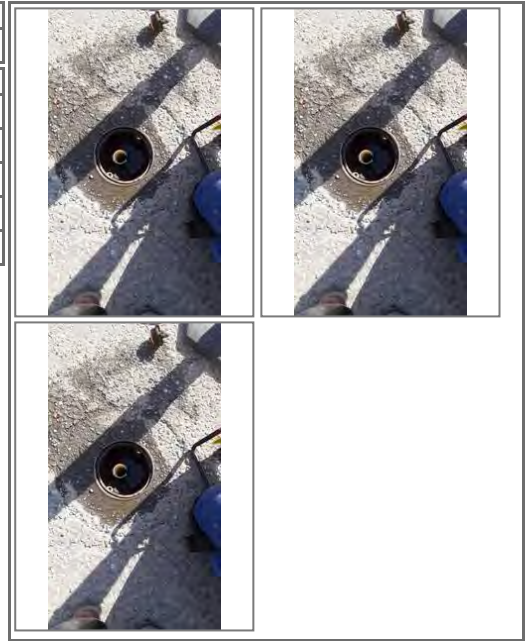
Site Name: TNS #112

Date: 05/20/2024,  
11:06 AM

Name(s): Leslie  
Petre



| Location ID                | GPS Latitude (decimal) | GPS Longitude (decimal)    |
|----------------------------|------------------------|----------------------------|
| MW17-2                     | 64.7592928             | -147.3503357               |
| <b>Field Intrinsic</b>     |                        |                            |
| Sampler Names: Geoff, remi |                        | Sheen/Odor?: Gasoline      |
| pH: 5.90                   |                        | Specific Conductance: 1467 |
| DO: 6.01                   |                        | Temperature (C): 3.4       |
| ORP: 247.4                 |                        | Purge Volume (gal): 3      |
| Notes: Orange to brown     |                        |                            |



Site Name: TNS #112

Date: 05/20/2024,  
11:45 AM

Name(s): Leslie  
Petre

| Location ID                | GPS Latitude (decimal)      | GPS Longitude (decimal) |
|----------------------------|-----------------------------|-------------------------|
| MW17-5                     | 64.7593018                  | -147.3501524            |
| <b>Field Intrinsic</b>     |                             |                         |
| Sampler Names: Geoff, Remi | Sheen/Odor?: None           |                         |
| pH: 6.80                   | Specific Conductance: 295.0 |                         |
| DO: 2.87                   | Temperature (C): 4.9        |                         |
| ORP: 134.1                 | Purge Volume (gal): 2.5     |                         |
| Notes: Orange to clear     |                             |                         |





Site Name: TNS #112

Date: 05/20/2024,  
3:18 PM

Name(s): Leslie  
Petre

| Location ID | GPS Latitude (decimal) | GPS Longitude (decimal) |
|-------------|------------------------|-------------------------|
| MW-3        | 64.759289              | -147.3498645            |

| Field Intrinsic     |                               |
|---------------------|-------------------------------|
| Sampler Names: Remi | Sheen/Odor?: Light petro odor |
| pH: 6.94            | Specific Conductance: 776     |
| DO: 3.02            | Temperature (C): 8.9          |
| ORP: 178.4          | Purge Volume (gal): 7         |
| Notes:              |                               |







Site Name: TNS #112

06/11/2024,  
Date: 12:03 PM

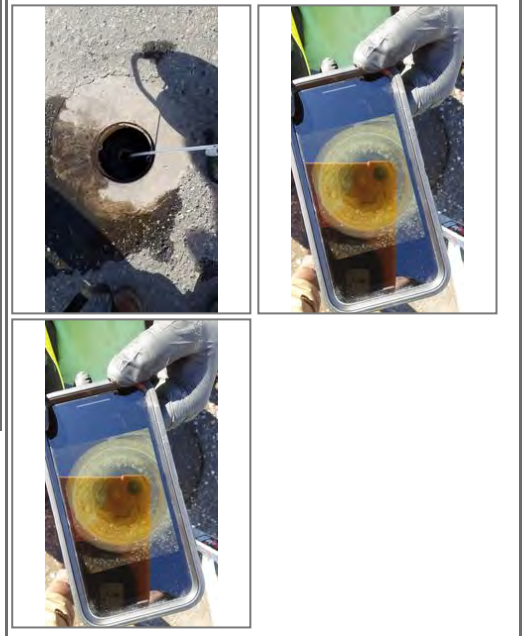
Leslie  
Name(s): Petre

GPM



|                    |                   |                     |               |
|--------------------|-------------------|---------------------|---------------|
| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |
| MW17-5             | N/A               | 9.23                |               |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |
| 398.62             | 2.0               |                     |               |
| Latitude (decimal) |                   | Longitude (decimal) | Weather       |
| 64.7593018         |                   | -147.3501524        |               |

|                       |                          |
|-----------------------|--------------------------|
| Analytical Parameters | Bottles to be filled     |
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
|                       |                          |
|                       |                          |
|                       |                          |
|                       |                          |



Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 12:02 | 9.23                | <del> </del>       |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |

Sample Collected? Yes Time 12:03 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #112

Date: 06/11/2024,  
12:46 PM

Leslie  
Name(s): Petre

G M



| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |         |
|--------------------|-------------------|---------------------|---------------|---------|
| MW-2               | N/A               |                     |               |         |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |         |
| 398.73             | 4.0               |                     |               |         |
| Latitude (decimal) |                   | Longitude (decimal) |               | Weather |
| 64.7591252         |                   | -147.350143         |               |         |

| Analytical Parameters | Bottles to be filled     |
|-----------------------|--------------------------|
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
|                       |                          |
|                       |                          |
|                       |                          |

Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 12:45 |                     | X                  |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |

Sample Collected? Yes Time 12:46 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #112

Date: 06/11/2024,  
12:38 PM

Name(s): Leslie  
Petre



| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |
|--------------------|-------------------|---------------------|---------------|
| MW-3               | N/A               | 9.45                |               |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |
| 398.87             | 4.0               |                     | other         |
| Latitude (decimal) |                   | Longitude (decimal) |               |
| 64.759289          |                   | -147.3498645        |               |

| Analytical Parameters | Bottles to be filled     |
|-----------------------|--------------------------|
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
|                       |                          |
|                       |                          |
|                       |                          |



QA/QC: Duplicate #1

Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below      Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 12:18 | 9.45                | X                  |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |

Sample Collected? Yes      Time 12:38      Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #112

Date: 06/11/2024,  
11:20 AM

Name(s): Leslie  
Petre



| Well ID            | Free Product (ft) | Water (ft)          | Bottom (ft)   |
|--------------------|-------------------|---------------------|---------------|
| MW-6               | N/A               | 12.56               |               |
| TOC                | Well Dia. (in)    | Screen Length (ft)  | Well Material |
| 389.18             | 2.0               |                     | pvc           |
| Latitude (decimal) |                   | Longitude (decimal) |               |
| 64.7593488         |                   | -147.3492615        |               |

| Analytical Parameters | Bottles to be filled     |
|-----------------------|--------------------------|
| PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓   |
| BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓   |
| GRO                   | 3 X 40 mL Amber VOAs ✓   |
| DRO                   | 2 X 100 mL Amber Glass ✓ |
| Sodium                | 1 X 250 mL Poly ✓        |
|                       |                          |
|                       |                          |
|                       |                          |

Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_  
 Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below      Bottom / TOC

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O2 (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading             | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 11:08 | 12.56               | X                  |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
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|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                     |                        |                 |               |                                     |                 |

Sample Collected? Yes      Time 11:20      Total Pumped from Well? 0 Gal

NOTES / COMMENTS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Site Name: TNS #112

Date: 06/11/2024,  
11:54 AM

Name(s): Leslie  
Petre

|                                       |                   |                     |               |                       |                        |
|---------------------------------------|-------------------|---------------------|---------------|-----------------------|------------------------|
| Well ID                               | Free Product (ft) | Water (ft)          | Bottom (ft)   | Analytical Parameters | Bottles to be filled   |
| MW-10                                 | N/A               | 13.08               |               | PAH 8270 SIM          | 3 X 40 mL Amber VOAs ✓ |
| TOC                                   | Well Dia. (in)    | Screen Length (ft)  | Well Material | BTEX/Fuel             | 3 X 40 mL Amber VOAs ✓ |
| 387.78                                |                   |                     |               | GRO                   | 3 X 40 mL Amber VOAs ✓ |
| Latitude (decimal)                    |                   | Longitude (decimal) |               | Weather               |                        |
| 64.7596502                            |                   | -147.3492331        |               |                       |                        |
| Type/Model Meter Used: _____          |                   |                     |               |                       |                        |
| Calibrated: (date) _____ (time) _____ |                   |                     |               |                       |                        |
| Cell Vol: _____                       |                   |                     |               |                       |                        |
| Type/Model Pump Used: _____           |                   |                     |               |                       |                        |
| Pump Intake? _____ ft                 |                   |                     |               |                       |                        |
| Above / Below Bottom / TOC            |                   |                     |               |                       |                        |
|                                       |                   |                     |               | Sodium                | 1 X 250 mL Poly ✓      |

| Time  | Depth to Water (ft) | Flow Rate (ml/Min) | pH      |                | Conductivity (ms/cm) |               | Turbidity (NTU) |                      | Dissolved O <sub>2</sub> (mg/l) |                        | Temp. (Celsius) |               | Oxygen Reduction Potential (ORP) mv |                 |
|-------|---------------------|--------------------|---------|----------------|----------------------|---------------|-----------------|----------------------|---------------------------------|------------------------|-----------------|---------------|-------------------------------------|-----------------|
|       |                     |                    | Reading | Change* (±0.1) | Reading              | Change* (±3%) | Reading         | Change* (±10% or <5) | Reading                         | Change* (±10% or <0.5) | Reading         | Change* (±3%) | Reading                             | Change* (±10mv) |
| 11:45 | 13.08               | <del>X</del>       |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
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|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |
|       |                     |                    |         |                |                      |               |                 |                      |                                 |                        |                 |               |                                     |                 |

Sample Collected? Yes Time 11:54 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Site Name: TNS #112

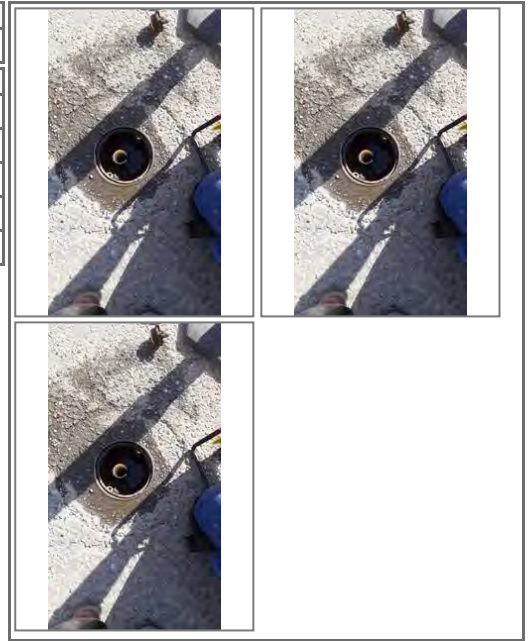
Date: 06/11/2024,  
11:37 AM

Name(s): Leslie  
Petre

*GM*



| Location ID            | GPS Latitude (decimal)     | GPS Longitude (decimal) |
|------------------------|----------------------------|-------------------------|
| MW17-2                 | 64.7592928                 | -147.3503357            |
| <b>Field Intrinsic</b> |                            |                         |
| Sampler Names: Geoff   | Sheen/Odor?: Odor          |                         |
| pH: 5.78               | Specific Conductance: 3295 |                         |
| DO: 1.8                | Temperature (C): 5.4       |                         |
| ORP: 211.7             | Purge Volume (gal): 3      |                         |
| Notes:                 |                            |                         |



Site Name: TNS #112

Date: 06/11/2024,  
12:03 PM

Name(s): Leslie  
Petre

*GPM*



| Location ID            | GPS Latitude (decimal)     | GPS Longitude (decimal) |
|------------------------|----------------------------|-------------------------|
| MW17-5                 | 64.7593018                 | -147.3501524            |
| <b>Field Intrinsic</b> |                            |                         |
| Sampler Names: Geoff   | Sheen/Odor?: N             |                         |
| pH: 5.55               | Specific Conductance: 1415 |                         |
| DO: 1.54               | Temperature (C): 6.3       |                         |
| ORP: 307.7             | Purge Volume (gal): 2.5    |                         |
| Notes:                 |                            |                         |



Site Name: TNS #112

06/11/2024,  
Date: 12:46 PM

Leslie  
Name(s): Petre

G M



| Location ID | GPS Latitude (decimal) | GPS Longitude (decimal) |
|-------------|------------------------|-------------------------|
| MW-2        | 64.7591252             | -147.350143             |

| Field Intrinsic      |                             |
|----------------------|-----------------------------|
| Sampler Names: Geoff | Sheen/Odor?: N              |
| pH: 6.9              | Specific Conductance: 331.3 |
| DO: 1.59             | Temperature (C): 6.1        |
| ORP: 253             | Purge Volume (gal): 4       |
| Notes:               |                             |



Site Name: TNS #112

Date: 06/11/2024,  
12:38 PM

Name(s): Leslie  
Petre




| Location ID            | GPS Latitude (decimal)      | GPS Longitude (decimal) |
|------------------------|-----------------------------|-------------------------|
| MW-3                   | 64.759289                   | -147.3498645            |
| <b>Field Intrinsic</b> |                             |                         |
| Sampler Names: Remi    | Sheen/Odor?: None           |                         |
| pH: 6.66               | Specific Conductance: 677.8 |                         |
| DO: 1.79               | Temperature (C): 5.1        |                         |
| ORP: 280.1             | Purge Volume (gal): 10      |                         |
| Notes: Clear grey      |                             |                         |



Site Name: TNS #112

06/11/2024,  
Date: 11:20 AM

Leslie  
Name(s): Petre



| Location ID | GPS Latitude (decimal) | GPS Longitude (decimal) |
|-------------|------------------------|-------------------------|
| MW-6        | 64.7593488             | -147.3492615            |

| Field Intrinsic     |                             |
|---------------------|-----------------------------|
| Sampler Names: Remi | Sheen/Odor?: None           |
| pH: 6.00            | Specific Conductance: 305.9 |
| DO: 3.50            | Temperature (C): 4.7        |
| ORP: 289.6          | Purge Volume (gal): 3       |
| Notes: Grey brown   |                             |



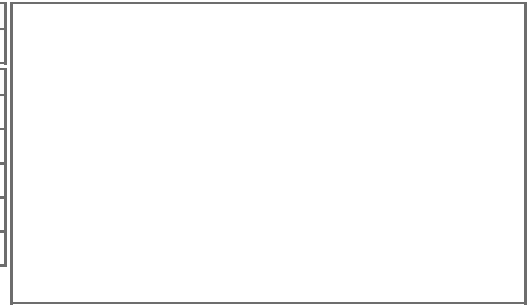
Site Name: TNS #112

Date: 06/11/2024,  
11:54 AM

Name(s): Leslie  
Petre



| Location ID            | GPS Latitude (decimal)      | GPS Longitude (decimal) |
|------------------------|-----------------------------|-------------------------|
| MW-10                  | 64.7596502                  | -147.3492331            |
| <b>Field Intrinsic</b> |                             |                         |
| Sampler Names: Remi    | Sheen/Odor?: None           |                         |
| pH: 6.59               | Specific Conductance: 321.6 |                         |
| DO: 5.68               | Temperature (C): 4.5        |                         |
| ORP: 235.1             | Purge Volume (gal): 3       |                         |
| Notes: Grey            |                             |                         |



**Speedway 5310**  
**(7-Eleven 43003 - Former TNS 112)**

| Unit                           | Well Screen Interval |        | Ground Water Elevator. |                |                  |             |                |             |                  |        |             |              |
|--------------------------------|----------------------|--------|------------------------|----------------|------------------|-------------|----------------|-------------|------------------|--------|-------------|--------------|
|                                | ft                   | ft     | 124-TMB                | 135-TMB        | Benzene          | DRO         | Ethylbenzene   | GRO         | Naphthalene      | Sodium | Toluene     | Xylenes      |
|                                |                      |        | ppm                    | ppm            | ppm              | ppm         | ppm            | ppm         | ppm              | ppm    | ppm         | ppm          |
| <b>GW Human Health Cleanup</b> |                      |        | <u>0.056</u>           | <u>0.06</u>    | <u>0.0046</u>    | <u>1.5</u>  | <u>0.015</u>   | <u>2.2</u>  | <u>0.0017</u>    |        | <u>1.1</u>  | <u>0.19</u>  |
| <b>MW17-2</b>                  |                      |        |                        |                |                  |             |                |             |                  |        |             |              |
| 07/19/2017                     | --                   | --     | NT                     | NT             | —                | —           | —              | —           | U(0.039)         | —      | —           | —            |
| 10/30/2018                     | --                   | --     | —                      | —              | U (0.003)        | <u>2.50</u> | <u>0.18</u>    | <u>3.90</u> | —                | —      | U (0.002)   | <u>0.90</u>  |
| 05/10/2019                     | --                   | --     | NT                     | NT             | U (0.003)        | 0.91        | 0.005100       | U (0.25)    | U(0.00011)       | —      | U (0.002)   | 0.0120       |
| 10/22/2019                     | --                   | --     | —                      | —              | U (0.003)        | 1.4 H       | <u>0.21</u>    | <u>3.50</u> | —                | —      | U (0.002)   | <u>0.79</u>  |
| 08/18/2020                     | --                   | 381.54 | <u>0.457</u>           | <u>0.0880</u>  | 0.0017 J         | <u>1.96</u> | <u>0.08370</u> | 1.76        | <u>0.0080500</u> | —      | 0.00186 J   | <u>0.32</u>  |
| 10/06/2020                     | --                   | 381.12 | NT                     | NT             | 0.00132 J        | <u>2.43</u> | <u>0.113</u>   | 2.08        | <u>0.0061400</u> | —      | U (0.001)   | <u>0.591</u> |
| 06/24/2021                     | --                   | 381.59 | <u>0.389</u>           | 0.05690        | 0.00163 J        | <u>1.58</u> | <u>0.07270</u> | 1.36        | 0.0164 B,J       | —      | U (0.01)    | 0.173        |
| 10/13/2021                     | --                   | --     | <u>0.315</u>           | <u>0.06920</u> | 0.00125 J        | <u>1.77</u> | <u>0.05060</u> | 1.51        | <u>0.0049300</u> | —      | 0.00253 J   | <u>0.197</u> |
| 05/16/2022                     | --                   | 382.45 | <u>0.247</u>           | 0.03740        | 0.000632000      | 1.15        | <u>0.03330</u> | 0.573       | 0.000423000      | 37.5   | 0.0016500   | 0.09680      |
| 09/26/2022                     | --                   | 381.46 | <u>0.192</u>           | 0.02510        | 0.000713000      | 1.35        | <u>0.01760</u> | 0.557       | 0.0012700        | 207    | 0.0019500   | 0.04180      |
| 10/26/2022                     | --                   | 381.04 | —                      | —              | 0.00053000       | 1.23        | 0.0012700      | 0.118       | 0.000327000      | 1230   | U(0.00100)  | 0.000377000  |
| 06/07/2023                     | --                   | 381.65 | <u>0.09370</u>         | 0.01870        | 0.0010500        | 1.50        | <u>0.01690</u> | 0.425       | <u>0.0034900</u> | 1280   | 0.000829000 | 0.03840      |
| 07/26/2023                     | --                   | 381.65 | U(0.00100)             | U(0.00100)     | 0.000862000      | 0.633       | 0.000272000    | U(0.500)    | U(0.000250)      | 1630   | U(0.00100)  | U(0.00300)   |
| 08/16/2023                     | --                   | 381.03 | <u>0.07480</u>         | 0.02350        | <u>0.0083100</u> | 0.589       | <u>0.05570</u> | 1.02        | <u>0.0034400</u> | 425    | 0.0073600   | 0.107        |
| 09/27/2023                     | --                   | 381.24 | 0.000841000            | U(0.00100)     | 0.000697000      | 0.263       | 0.000436000    | 0.185       | 0.000773000      | 1360   | U(0.00100)  | 0.0011300    |
| 10/19/2023                     | --                   | 380.91 | U(0.00100)             | U(0.00100)     | 0.00094000       | 0.234       | 0.000589000    | 0.231       | 0.000247000      | 1650   | 0.000295000 | U(0.00300)   |
| 05/20/2024                     | --                   | 381.19 | <u>0.127</u>           | 0.02080        | 0.0010400        | 0.931       | <u>0.02180</u> | 0.637       | 0.0012700        | 250    | 0.0023100   | 0.09570      |
| 06/11/2024                     | --                   | 381.19 | U(0.00100)             | U(0.00100)     | 0.000864000      | 0.725       | 0.0024900      | 0.337       | U(0.000250)      | 809    | 0.000298000 | 0.000648000  |
| <b>MW17-5</b>                  |                      |        |                        |                |                  |             |                |             |                  |        |             |              |
| 07/19/2017                     | --                   | --     | <u>0.86</u>            | NT             | —                | —           | —              | —           | <u>0.0270</u>    | —      | —           | —            |
| 06/14/2018                     | --                   | --     | 0.0440                 | <u>0.0630</u>  | <u>0.0250</u>    | 0.17        | <u>0.0640</u>  | 1.70        | 0.001100         | —      | 0.52        | <u>0.548</u> |
| 10/30/2018                     | --                   | --     | —                      | —              | <u>0.0550</u>    | 0.26        | <u>0.15</u>    | <u>3.70</u> | —                | —      | 0.21        | <u>0.505</u> |
| 05/09/2019                     | --                   | --     | —                      | —              | 0.003200         | 0.92        | <u>0.0160</u>  | 0.31        | —                | —      | 0.002600    | 0.0480       |
| 05/10/2019                     | --                   | --     | NT                     | NT             | —                | —           | —              | —           | 0.00014000       | —      | —           | —            |
| 10/22/2019                     | --                   | --     | —                      | —              | <u>0.0220</u>    | 0.47 H      | <u>0.23</u>    | <u>3.70</u> | —                | —      | 0.36        | <u>0.721</u> |
| 08/18/2020                     | --                   | 389.82 | <u>0.19</u>            | <u>0.117</u>   | <u>0.03080</u>   | 0.825       | <u>0.151</u>   | <u>2.68</u> | <u>0.0072900</u> | —      | 0.386       | <u>0.896</u> |
| 10/06/2020                     | --                   | 389.43 | NT                     | NT             | <u>0.03140</u>   | J 0.569     | <u>0.158</u>   | 1.68        | <u>0.0047500</u> | —      | 0.144       | <u>0.401</u> |
| 10/13/2021                     | --                   | --     | <u>0.186</u>           | <u>0.09640</u> | <u>0.03870</u>   | 0.800 J     | <u>0.14</u>    | 2.18        | <u>0.002100</u>  | —      | 0.265       | <u>0.469</u> |
| 05/16/2022                     | --                   | 390.70 | <u>0.38</u>            | <u>0.114</u>   | <u>0.196</u>     | 1.13        | <u>0.276</u>   | <u>4.07</u> | U(0.000250)      | 15.4   | <u>1.45</u> | <u>1.13</u>  |
| 09/26/2022                     | --                   | 389.74 | <u>0.33</u>            | <u>0.181</u>   | <u>0.151</u>     | 0.40        | <u>0.336</u>   | <u>4.16</u> | <u>0.0026400</u> | 23.8   | <u>1.18</u> | <u>1.37</u>  |
| 10/26/2022                     | --                   | 389.32 | —                      | —              | <u>0.02670</u>   | 0.319       | <u>0.09680</u> | 1.15        | <u>0.0039900</u> | 270    | 0.08140     | <u>0.276</u> |
| 04/27/2023                     | --                   | 389.21 | 0.0088300              | 0.01630        | 0.0041400        | 0.23        | <u>0.02310</u> | 0.306       | 0.000484000      | 9.11   | U(0.00100)  | 0.05030      |
| 06/07/2023                     | --                   | 389.92 | <u>0.06440</u>         | 0.02320        | <u>0.02440</u>   | 0.311       | <u>0.05160</u> | 1.43        | 0.001300         | 245    | 0.234       | 0.182        |
| 07/26/2023                     | --                   | 390.40 | <u>0.159</u>           | <u>0.06010</u> | <u>0.04650</u>   | 0.569       | <u>0.192</u>   | 2.11        | <u>0.0033700</u> | 140    | 0.221       | <u>0.567</u> |
| 08/16/2023                     | --                   | 389.95 | U(0.00100)             | U(0.00100)     | U(0.00100)       | U(0.800)    | U(0.00100)     | 0.181       | 0.000275000      | 2050   | U(0.00100)  | U(0.00300)   |
| 09/27/2023                     | --                   | 389.49 | <u>0.07040</u>         | 0.01320        | <u>0.01950</u>   | 0.432       | <u>0.07680</u> | 0.638       | 0.0013900        | 45.6   | 0.01030     | 0.189        |
| 10/19/2023                     | --                   | 389.19 | 0.01110                | 0.0032100      | <u>0.0058600</u> | U(0.888)    | <u>0.02170</u> | 0.252       | 0.000892000      | 199    | 0.0041800   | 0.0400       |
| 05/20/2024                     | --                   | 389.69 | <u>0.09320</u>         | 0.03380        | <u>0.01590</u>   | 0.287       | <u>0.109</u>   | 0.986       | U(0.000250)      | 10.7   | 0.08460     | <u>0.364</u> |
| 06/11/2024                     | --                   | 389.39 | U(0.00100)             | U(0.00100)     | 0.0030800        | U(0.800)    | 0.000419000    | 0.187       | 0.000273000      | 265    | 0.000399000 | U(0.00300)   |

Speedway 5310  
(7-Eleven 43003 - Former TNS 112)

|                                | Well Screen Interval | Ground Water Elevator. | 124-TMB      | 135-TMB     | Benzene          | DRO         | Ethylbenzene   | GRO         | Naphthalene   | Sodium | Toluene     | Xylenes      |
|--------------------------------|----------------------|------------------------|--------------|-------------|------------------|-------------|----------------|-------------|---------------|--------|-------------|--------------|
| Unit                           | ft                   | ft                     | ppm          | ppm         | ppm              | ppm         | ppm            | ppm         | ppm           | ppm    | ppm         | ppm          |
| <b>GW Human Health Cleanup</b> |                      |                        | <u>0.056</u> | <u>0.06</u> | <u>0.0046</u>    | <u>1.5</u>  | <u>0.015</u>   | <u>2.2</u>  | <u>0.0017</u> |        | <u>1.1</u>  | <u>0.19</u>  |
| <b>MW-2</b>                    |                      |                        |              |             |                  |             |                |             |               |        |             |              |
| 05/30/1997                     | --                   | 388.86                 | —            | —           | <u>92.0</u>      | <u>8.20</u> | <u>7.10</u>    | <u>170</u>  | —             | —      | <u>64.0</u> | <u>33.0</u>  |
| 03/12/1998                     | --                   | 388.90                 | —            | —           | <u>2.80</u>      | <u>21.0</u> | <u>13.0</u>    | <u>420</u>  | —             | —      | <u>44.0</u> | <u>62.0</u>  |
| 04/19/2001                     | --                   | 388.85                 | —            | —           | <u>2.93</u>      | <u>27.4</u> | <u>9.90</u>    | <u>216</u>  | —             | —      | <u>52.9</u> | <u>44.5</u>  |
| 07/24/2001                     | --                   | 389.24                 | —            | —           | <u>1.95</u>      | <u>18.5</u> | <u>5.30</u>    | <u>136</u>  | —             | —      | <u>30.5</u> | <u>33.9</u>  |
| 01/28/2002                     | --                   | 389.14                 | —            | —           | <u>1.23</u>      | <u>10.5</u> | <u>7.38</u>    | <u>156</u>  | —             | —      | <u>33.4</u> | <u>39.8</u>  |
| 04/30/2002                     | --                   | 389.66                 | —            | —           | <u>0.116</u>     | <u>6.90</u> | <u>2.60</u>    | <u>51.4</u> | —             | —      | <u>10.2</u> | <u>17.43</u> |
| 09/30/2002                     | --                   | 389.29                 | —            | —           | <u>0.656</u>     | <u>6.93</u> | <u>2.92</u>    | <u>118</u>  | —             | —      | <u>17.9</u> | <u>26.61</u> |
| 05/12/2003                     | --                   | 389.74                 | —            | —           | <u>0.569</u>     | <u>5.68</u> | <u>4.15</u>    | <u>90.8</u> | —             | —      | <u>19.7</u> | <u>25.43</u> |
| 10/09/2003                     | --                   | 389.00                 | —            | —           | <u>0.25</u>      | U (0.32)    | <u>2.88</u>    | <u>64.9</u> | —             | —      | <u>6.21</u> | <u>14.2</u>  |
| 04/21/2004                     | --                   | 388.73                 | —            | —           | U (0.005)        | <u>7.00</u> | <u>0.114</u>   | <u>5.42</u> | —             | —      | 0.116       | <u>1.21</u>  |
| 10/21/2004                     | --                   | 388.03                 | —            | —           | <u>0.0051800</u> | <u>1.74</u> | <u>0.109</u>   | <u>3.20</u> | —             | —      | 0.08240     | <u>0.699</u> |
| 05/19/2005                     | --                   | 389.21                 | —            | —           | <u>0.0068100</u> | <u>5.49</u> | <u>0.376</u>   | <u>7.88</u> | —             | —      | 0.513       | <u>1.61</u>  |
| 09/26/2005                     | --                   | 388.93                 | —            | —           | <u>0.01250</u>   | <u>3.15</u> | <u>0.422</u>   | <u>9.60</u> | —             | —      | 0.58        | <u>1.78</u>  |
| 05/15/2006                     | --                   | 388.80                 | —            | —           | 0.00058000       | <u>1.87</u> | <u>0.05330</u> | 1.50        | —             | —      | 0.02730     | <u>0.223</u> |
| 11/07/2006                     | --                   | 388.64                 | —            | —           | <u>0.01020</u>   | 1.35        | <u>0.906</u>   | <u>17.0</u> | —             | —      | <u>1.11</u> | <u>3.24</u>  |
| 05/15/2007                     | --                   | 388.15                 | —            | —           | 0.0027900        | <u>1.90</u> | <u>0.03560</u> | 1.99        | —             | —      | 0.01990     | 0.173        |
| 10/16/2007                     | --                   | 388.15                 | —            | —           | 0.003200         | <u>1.55</u> | <u>0.412</u>   | <u>7.61</u> | —             | —      | 0.173       | <u>1.03</u>  |
| 04/29/2008                     | --                   | 388.82                 | —            | —           | U (0.0005)       | <u>2.09</u> | 0.004300       | 0.453       | —             | —      | U (0.0005)  | 0.01310      |
| 10/01/2008                     | --                   | 389.24                 | —            | —           | 0.0011400        | 1.38        | <u>0.228</u>   | <u>3.12</u> | —             | —      | 0.01940     | <u>0.739</u> |
| 05/12/2009                     | --                   | 389.14                 | —            | —           | 0.0038500        | <u>8.79</u> | <u>0.308</u>   | <u>4.00</u> | —             | —      | 0.01140     | <u>0.537</u> |
| 10/26/2009                     | --                   | 388.76                 | —            | —           | 0.0013800        | 0.738       | <u>0.717</u>   | <u>4.25</u> | —             | —      | 0.01080     | <u>1.48</u>  |
| 06/15/2010                     | --                   | 388.99                 | —            | —           | 0.0014300        | 0.51        | <u>0.02050</u> | 1.32        | —             | —      | 0.0013500   | 0.07290      |
| 10/14/2010                     | --                   | 388.66                 | —            | —           | 0.0019200        | 1.49        | <u>0.127</u>   | <u>4.45</u> | —             | —      | 0.01360     | <u>0.70</u>  |
| 05/24/2011                     | --                   | 388.96                 | —            | —           | 0.0023200        | <u>3.04</u> | <u>0.798</u>   | <u>6.24</u> | —             | —      | 0.03130     | <u>1.32</u>  |
| 10/26/2011                     | --                   | 388.59                 | —            | —           | U (0.010)        | 0.744       | <u>0.345</u>   | <u>6.53</u> | —             | —      | U (0.010)   | <u>1.11</u>  |
| 05/22/2012                     | --                   | 388.88                 | —            | —           | <u>0.0056600</u> | NR          | <u>0.179</u>   | <u>5.17</u> | —             | —      | 0.0027500   | <u>0.503</u> |
| 10/11/2012                     | --                   | 389.13                 | —            | —           | 0.00075000       | 0.655       | 0.0070700      | 0.687       | —             | —      | 0.01970     | 0.06140      |
| 05/21/2013                     | --                   | 389.20                 | —            | —           | 0.0017300        | U (0.397)   | <u>0.0190</u>  | 0.388       | —             | —      | 0.000638000 | 0.03250      |
| 09/25/2013                     | --                   | 389.27                 | —            | —           | 0.001300         | 0.573       | <u>0.269</u>   | <u>2.61</u> | —             | —      | 0.0010400   | <u>0.481</u> |
| 05/06/2014                     | --                   | 389.28                 | —            | —           | 0.003800         | 0.67        | <u>0.15</u>    | 1.80        | —             | —      | U (0.0005)  | <u>0.21</u>  |
| 09/17/2014                     | --                   | 388.88                 | —            | —           | 0.00072000       | U (0.38)    | <u>0.0960</u>  | 1.30        | —             | —      | 0.00068000  | 0.15         |
| 05/26/2015                     | --                   | 389.53                 | —            | —           | 0.001800         | <u>2.50</u> | <u>0.0920</u>  | 1.60        | —             | —      | U (0.003)   | <u>0.21</u>  |
| 10/06/2015                     | --                   | 389.86                 | —            | —           | <u>0.0360</u>    | 0.76        | <u>0.29</u>    | <u>4.70</u> | —             | —      | 0.003900    | <u>0.64</u>  |
| 05/11/2016                     | --                   | 389.13                 | —            | —           | 0.002300         | 0.73        | <u>0.10</u>    | 1.20        | —             | —      | U (0.001)   | 0.14         |
| 10/05/2016                     | --                   | 389.51                 | —            | —           | U (0.020)        | 1.40        | <u>0.15</u>    | 1.70        | —             | —      | U (0.020)   | <u>0.22</u>  |
| 05/08/2017                     | --                   | 389.42                 | —            | —           | U (0.002)        | 0.68        | <u>0.23</u>    | <u>2.80</u> | —             | —      | U (0.002)   | <u>0.639</u> |
| 09/05/2017                     | --                   | 389.34                 | —            | —           | 0.001400         | 0.90        | <u>0.0410</u>  | 1.00        | —             | —      | U (0.001)   | 0.0810       |
| 06/14/2018                     | --                   | 389.52                 | —            | —           | U (0.003)        | 0.30        | <u>0.0770</u>  | 1.10        | —             | —      | U (0.002)   | 0.1128       |
| 10/30/2018                     | --                   | 389.22                 | —            | —           | U (0.003)        | <u>2.40</u> | <u>0.0420</u>  | 0.69        | —             | —      | U (0.002)   | 0.0620       |



**Speedway 5310**  
**(7-Eleven 43003 - Former TNS 112)**

|                                | <i>Well Screen Interval</i> | <i>Ground Water Elevation</i> | <i>124-TMB</i> | <i>135-TMB</i> | <i>Benzene</i>  | <i>DRO</i>  | <i>Ethylbenzene</i> | <i>GRO</i>  | <i>Naphthalene</i> | <i>Sodium</i> | <i>Toluene</i> | <i>Xylenes</i> |
|--------------------------------|-----------------------------|-------------------------------|----------------|----------------|-----------------|-------------|---------------------|-------------|--------------------|---------------|----------------|----------------|
| <b>Unit</b>                    | <b>ft</b>                   | <b>ft</b>                     | <b>ppm</b>     | <b>ppm</b>     | <b>ppm</b>      | <b>ppm</b>  | <b>ppm</b>          | <b>ppm</b>  | <b>ppm</b>         | <b>ppm</b>    | <b>ppm</b>     | <b>ppm</b>     |
| <b>GW Human Health Cleanup</b> |                             |                               | <u>0.056</u>   | <u>0.06</u>    | <u>0.0046</u>   | <u>1.5</u>  | <u>0.015</u>        | <u>2.2</u>  | <u>0.0017</u>      |               | <u>1.1</u>     | <u>0.19</u>    |
| 05/09/2019                     | --                          | 388.88                        | —              | —              | U (0.003)       | 0.26        | <u>0.0230</u>       | 0.41        | —                  | —             | U (0.002)      | 0.0510         |
| 10/22/2019                     | --                          | 389.44                        | —              | —              | U (0.003)       | 0.72        | <u>0.0170</u>       | 0.36        | —                  | —             | U (0.002)      | 0.0290         |
| 08/18/2020                     | --                          | 389.80                        | —              | —              | 0.00074000      | 0.632       | 0.0072800           | 0.203       | —                  | —             | 0.000886 J     | 0.01560        |
| 10/06/2020                     | --                          | 389.40                        | —              | —              | 0.0012100       | 0.38 J      | 0.01040             | 0.277       | —                  | —             | 0.000531 J     | 0.02450        |
| 06/24/2021                     | --                          | 389.94                        | —              | —              | 0.00062 J       | 0.95        | 0.0067300           | 0.85        | —                  | —             | 0.000453 J     | 0.01210        |
| 10/13/2021                     | --                          | --                            | —              | —              | 0.000702 J      | 1.49        | 0.0076800           | 0.21        | —                  | —             | U (0.001)      | 0.0130         |
| 05/16/2022                     | --                          | 390.75                        | 0.01140        | 0.0046100      | 0.000328000     | 0.38        | 0.0046800           | 0.126       | U(0.000250)        | 11.5          | U(0.00100)     | 0.0076800      |
| 09/26/2022                     | --                          | 389.76                        | 0.01250        | 0.0062700      | 0.000558000     | 0.772       | 0.004600            | 0.174       | 0.000397000        | 15.4          | 0.000511000    | 0.0085600      |
| 04/27/2023                     | --                          | 389.22                        | 0.0064400      | 0.007100       | 0.000564000     | 0.719       | 0.007400            | 0.16        | 0.000145000        | 12.3          | U(0.00100)     | 0.01220        |
| 10/19/2023                     | --                          | 389.22                        | 0.0044400      | 0.0064300      | 0.000766000     | U(0.888)    | 0.0037800           | 0.06960     | 0.000192000        | 68.0          | U(0.00100)     | 0.006800       |
| 06/11/2024                     | --                          | 389.46                        | 0.00223        | 0.00410        | 0.000439 J      | 0.334 J     | 0.00353             | 0.0914 J    | U(0.000250)        | 10.6          | U(0.00100)     | U(0.00100)     |
| <b>MW-3</b>                    |                             |                               |                |                |                 |             |                     |             |                    |               |                |                |
| 05/30/1997                     | --                          | 388.79                        | —              | —              | <u>23.0</u>     | <u>54.0</u> | <u>12.0</u>         | <u>380</u>  | —                  | —             | <u>69.0</u>    | <u>54.0</u>    |
| 09/30/2002                     | --                          | 389.15                        | —              | —              | <u>36.6</u>     | <u>7.38</u> | <u>3.87</u>         | <u>337</u>  | —                  | —             | <u>75.3</u>    | <u>40.3</u>    |
| 05/12/2003                     | --                          | 389.68                        | —              | —              | <u>5.41</u>     | <u>2.37</u> | <u>1.44</u>         | <u>36.6</u> | —                  | —             | <u>6.45</u>    | <u>7.86</u>    |
| 10/09/2003                     | --                          | 388.92                        | —              | —              | <u>13.6</u>     | U (0.32)    | <u>5.31</u>         | <u>392</u>  | —                  | —             | <u>52.3</u>    | <u>49.9</u>    |
| 04/21/2004                     | --                          | 389.34                        | —              | —              | <u>0.617</u>    | <u>1.90</u> | <u>0.722</u>        | <u>20.2</u> | —                  | —             | <u>1.47</u>    | <u>5.69</u>    |
| 10/21/2004                     | --                          | 388.26                        | —              | —              | <u>9.38</u>     | <u>4.96</u> | <u>3.68</u>         | <u>157</u>  | —                  | —             | <u>29.5</u>    | <u>24.3</u>    |
| 05/19/2005                     | --                          | 389.41                        | —              | —              | <u>0.846</u>    | <u>2.03</u> | <u>1.04</u>         | <u>37.3</u> | —                  | —             | <u>5.38</u>    | <u>8.90</u>    |
| 09/26/2005                     | --                          | 389.12                        | —              | —              | <u>0.04960</u>  | <u>3.15</u> | <u>0.261</u>        | <u>14.6</u> | —                  | —             | <u>1.27</u>    | <u>4.24</u>    |
| 05/15/2006                     | --                          | 388.90                        | —              | —              | <u>0.833</u>    | <u>4.44</u> | <u>1.63</u>         | <u>44.3</u> | —                  | —             | <u>5.05</u>    | <u>12.5</u>    |
| 11/07/2006                     | --                          | 388.87                        | —              | —              | <u>1.74</u>     | <u>4.68</u> | <u>3.74</u>         | <u>174</u>  | —                  | —             | <u>26.4</u>    | <u>31.4</u>    |
| 05/15/2007                     | --                          | 388.37                        | —              | —              | <u>0.01240</u>  | <u>2.49</u> | <u>0.09420</u>      | <u>3.93</u> | —                  | —             | 0.136          | <u>0.948</u>   |
| 10/16/2007                     | --                          | 387.31                        | —              | —              | <u>0.126</u>    | <u>7.82</u> | <u>0.272</u>        | <u>55.3</u> | —                  | —             | <u>2.30</u>    | <u>17.5</u>    |
| 04/29/2008                     | --                          | 388.74                        | —              | —              | <u>0.006300</u> | <u>4.71</u> | <u>0.01970</u>      | 1.44        | —                  | —             | 0.143          | <u>0.321</u>   |
| 10/01/2008                     | --                          | 389.36                        | —              | —              | 0.0030500       | <u>3.20</u> | <u>0.05720</u>      | <u>2.40</u> | —                  | —             | 0.02380        | <u>0.913</u>   |
| 05/12/2009                     | --                          | 389.26                        | —              | —              | <u>0.0560</u>   | <u>5.95</u> | <u>0.624</u>        | <u>17.2</u> | —                  | —             | 0.833          | <u>5.70</u>    |
| 10/26/2009                     | --                          | 388.70                        | —              | —              | <u>0.09030</u>  | <u>3.41</u> | <u>0.935</u>        | <u>51.5</u> | —                  | —             | <u>2.25</u>    | <u>13.6</u>    |
| 06/15/2010                     | --                          | 388.90                        | —              | —              | <u>0.04280</u>  | <u>2.86</u> | <u>0.449</u>        | <u>12.8</u> | —                  | —             | 0.377          | <u>4.20</u>    |
| 10/14/2010                     | --                          | 388.28                        | —              | —              | <u>0.113</u>    | <u>7.56</u> | <u>2.48</u>         | <u>137</u>  | —                  | —             | <u>9.24</u>    | <u>25.6</u>    |
| 05/24/2011                     | --                          | 388.85                        | —              | —              | <u>0.205</u>    | <u>7.72</u> | <u>1.31</u>         | <u>62.4</u> | —                  | —             | <u>2.53</u>    | <u>20.9</u>    |
| 10/26/2011                     | --                          | 388.56                        | —              | —              | <u>0.104</u>    | <u>12.0</u> | <u>1.39</u>         | <u>47.0</u> | —                  | —             | <u>2.09</u>    | <u>20.7</u>    |
| 05/22/2012                     | --                          | 388.82                        | —              | —              | <u>0.131</u>    | <u>5.22</u> | <u>0.751</u>        | <u>41.3</u> | —                  | —             | <u>1.99</u>    | <u>12.9</u>    |
| 10/11/2012                     | --                          | 389.05                        | —              | —              | <u>0.01020</u>  | 1.35        | <u>0.271</u>        | <u>23.2</u> | —                  | —             | 0.373          | <u>3.83</u>    |
| 05/21/2013                     | --                          | 389.13                        | —              | —              | <u>1.50</u>     | <u>20.3</u> | <u>2.39</u>         | <u>70.0</u> | —                  | —             | <u>11.2</u>    | <u>15.9</u>    |
| 09/25/2013                     | --                          | 389.18                        | —              | —              | <u>0.102</u>    | <u>7.15</u> | <u>1.93</u>         | <u>47.9</u> | —                  | —             | <u>4.01</u>    | <u>23.9</u>    |
| 05/06/2014                     | --                          | 389.10                        | —              | —              | <u>0.0370</u>   | <u>4.70</u> | <u>0.42</u>         | <u>12.0</u> | —                  | —             | 0.47           | <u>3.80</u>    |
| 09/17/2014                     | --                          | 388.75                        | —              | —              | <u>0.0470</u>   | <u>2.70</u> | <u>1.20</u>         | <u>26.0</u> | —                  | —             | <u>1.50</u>    | <u>14.0</u>    |
| 05/26/2015                     | --                          | 389.50                        | —              | —              | <u>0.0570</u>   | <u>4.60</u> | <u>1.60</u>         | <u>79.0</u> | —                  | —             | <u>2.00</u>    | <u>13.0</u>    |
| 10/06/2015                     | --                          | 389.77                        | —              | —              | <u>0.10</u>     | <u>2.20</u> | <u>1.50</u>         | <u>57.0</u> | —                  | —             | <u>2.10</u>    | <u>16.0</u>    |

**Speedway 5310**  
**(7-Eleven 43003 - Former TNS 112)**

|                                |           | <i>Well Screen Interval</i> | <i>Ground Water Elevation</i> | <i>1,2,4-TMB</i> | <i>1,3,5-TMB</i> | <i>Benzene</i> | <i>DRO</i>     | <i>Ethylbenzene</i> | <i>GRO</i>       | <i>Naphthalene</i> | <i>Sodium</i> | <i>Toluene</i> | <i>Xylenes</i> |
|--------------------------------|-----------|-----------------------------|-------------------------------|------------------|------------------|----------------|----------------|---------------------|------------------|--------------------|---------------|----------------|----------------|
| <b>Unit</b>                    | <b>ft</b> | <b>ft</b>                   | <b>ppm</b>                    | <b>ppm</b>       | <b>ppm</b>       | <b>ppm</b>     | <b>ppm</b>     | <b>ppm</b>          | <b>ppm</b>       | <b>ppm</b>         | <b>ppm</b>    | <b>ppm</b>     | <b>ppm</b>     |
| <b>GW Human Health Cleanup</b> |           |                             | <u>0.056</u>                  | <u>0.06</u>      | <u>0.0046</u>    | <u>1.5</u>     | <u>0.015</u>   | <u>2.2</u>          | <u>0.0017</u>    |                    |               | <u>1.1</u>     | <u>0.19</u>    |
| 05/11/2016                     | --        | 389.07                      | —                             | —                | 0.0093000        | <u>1.60</u>    | <u>0.0340</u>  | 1.10                | —                | —                  | —             | 0.0240         | <u>0.34</u>    |
| 10/05/2016                     | --        | 389.44                      | —                             | —                | —                | <u>0.0540</u>  | <u>2.50</u>    | <u>0.92</u>         | <u>21.0</u>      | —                  | —             | 0.61           | <u>7.90</u>    |
| 05/08/2017                     | --        | 389.37                      | —                             | —                | —                | <u>0.0210</u>  | <u>4.40</u>    | <u>0.63</u>         | <u>19.0</u>      | —                  | —             | 0.32           | <u>6.60</u>    |
| 09/05/2017                     | --        | 389.25                      | —                             | —                | —                | <u>0.0400</u>  | <u>2.00</u>    | <u>1.00</u>         | <u>30.0</u>      | —                  | —             | 0.75           | <u>12.0</u>    |
| 06/14/2018                     | --        | 389.44                      | —                             | —                | —                | <u>0.0270</u>  | <u>2.80</u>    | <u>1.10</u>         | U (25)           | —                  | —             | 0.67           | <u>11.6</u>    |
| 10/30/2018                     | --        | 389.14                      | —                             | —                | —                | <u>0.0360</u>  | <u>5.70</u>    | <u>1.20</u>         | <u>39.0</u>      | —                  | —             | 0.37           | <u>12.0</u>    |
| 05/10/2019                     | --        | 388.84                      | —                             | —                | —                | <u>0.0290</u>  | 0.66           | <u>0.38</u>         | <u>10.0</u>      | —                  | —             | 0.20           | <u>4.02</u>    |
| 10/22/2019                     | --        | 389.42                      | —                             | —                | —                | <u>0.0280</u>  | 3.7 H          | <u>0.75</u>         | <u>17.0</u>      | —                  | —             | 0.15           | <u>5.50</u>    |
| 08/18/2020                     | --        | 389.75                      | —                             | —                | —                | <u>0.02440</u> | <u>2.84</u>    | <u>0.637</u>        | <u>12.6</u>      | —                  | —             | 0.194          | <u>6.86</u>    |
| 10/06/2020                     | --        | 389.35                      | —                             | —                | —                | <u>0.04460</u> | <u>3.64</u>    | <u>0.473</u>        | <u>10.7</u>      | —                  | —             | 0.187          | <u>4.59</u>    |
| 06/24/2021                     | --        | 389.80                      | —                             | —                | —                | <u>0.02920</u> | <u>2.03</u>    | <u>0.598</u>        | <u>16.0</u>      | —                  | —             | 0.278          | <u>6.45</u>    |
| 10/13/2021                     | --        | --                          | —                             | —                | 0.0186 J         | <u>2.16</u>    | <u>0.248</u>   | <u>7.35</u>         | —                | —                  | —             | 0.08560        | <u>1.80</u>    |
| 05/16/2022                     | --        | 390.69                      | <u>0.322</u>                  | <u>0.134</u>     | <u>0.01320</u>   | 1.49           | <u>0.187</u>   | <u>2.38</u>         | <u>0.0035400</u> | 42.0               | —             | 0.131          | <u>1.71</u>    |
| 09/26/2022                     | --        | 389.68                      | <u>0.473</u>                  | <u>0.166</u>     | <u>0.01680</u>   | 1.30           | <u>0.354</u>   | <u>4.78</u>         | <u>0.01480</u>   | 45.4               | —             | 0.33           | <u>2.77</u>    |
| 10/26/2022                     | --        | 389.26                      | —                             | —                | <u>0.009900</u>  | 1.18           | <u>0.383</u>   | <u>6.65</u>         | <u>0.01580</u>   | 51.7               | —             | 0.22           | <u>3.25</u>    |
| 04/27/2023                     | --        | 389.17                      | <u>0.137</u>                  | 0.05110          | <u>0.0130</u>    | <u>1.72</u>    | <u>0.219</u>   | <u>4.97</u>         | <u>0.0091700</u> | 42.1               | —             | 0.232          | <u>1.63</u>    |
| 07/26/2023                     | --        | 389.67                      | <u>1.63</u>                   | <u>0.446</u>     | <u>0.0120</u>    | <u>2.82</u>    | <u>0.577</u>   | <u>9.42</u>         | <u>0.02080</u>   | 34.4               | —             | 0.353          | <u>5.94</u>    |
| 08/16/2023                     | --        | 389.57                      | <u>0.406</u>                  | <u>0.129</u>     | 0.003500         | 1.15           | <u>0.157</u>   | 1.72                | <u>0.0060500</u> | 33.6               | —             | 0.05320        | <u>1.17</u>    |
| 09/27/2023                     | --        | 389.45                      | 0.01520                       | <u>0.06010</u>   | <u>0.0065700</u> | 0.747          | <u>0.199</u>   | <u>2.88</u>         | <u>0.0045900</u> | 35.1               | —             | 0.199          | <u>1.82</u>    |
| 10/19/2023                     | --        | 389.16                      | <u>0.116</u>                  | 0.03620          | 0.0038200        | 0.25           | <u>0.08810</u> | 1.46                | <u>0.0025400</u> | 32.7               | —             | 0.01670        | <u>0.532</u>   |
| 05/20/2024                     | --        | 389.41                      | <u>0.801</u>                  | <u>0.255</u>     | <u>0.01460</u>   | <u>2.14</u>    | <u>0.395</u>   | <u>10.1</u>         | <u>0.02160</u>   | 50.1               | —             | 0.209          | <u>4.41</u>    |
| 06/11/2024                     | --        | 389.42                      | <u>1.88</u>                   | <u>0.571</u>     | <u>0.01340</u>   | <u>2.24</u>    | <u>0.554</u>   | <u>14.9</u>         | <u>0.02480</u>   | 48.9               | —             | 0.179          | <u>5.61</u>    |
| <b>MW-6</b>                    |           |                             |                               |                  |                  |                |                |                     |                  |                    |               |                |                |
| 06/21/2000                     | --        | 376.32                      | —                             | —                | 0.001200         | U (0.3)        | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | U (0.002)      |
| 09/21/2000                     | --        | 376.28                      | —                             | —                | U (0.0005)       | U (0.297)      | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | U (0.002)      |
| 01/25/2001                     | --        | 376.03                      | —                             | —                | 0.00051000       | U (0.3)        | U (0.002)      | U (0.09)            | —                | —                  | —             | 0.002600       | 0.00300        |
| 04/19/2001                     | --        | 375.98                      | —                             | —                | U (0.0005)       | U (0.808)      | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | 0.00300        |
| 07/24/2001                     | --        | 376.29                      | —                             | —                | U (0.0005)       | U (0.495)      | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | U (0.002)      |
| 01/28/2002                     | --        | 376.24                      | —                             | —                | U (0.0005)       | U (0.500)      | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | U (0.002)      |
| 04/30/2002                     | --        | 376.58                      | —                             | —                | 0.000565000      | U (0.500)      | 0.0020300      | U (0.09)            | —                | —                  | —             | 0.0041100      | 0.010810       |
| 09/30/2002                     | --        | 376.21                      | —                             | —                | U (0.0005)       | U (0.495)      | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | U (0.002)      |
| 05/12/2003                     | --        | 375.94                      | —                             | —                | U (0.0005)       | U (0.3)        | U (0.002)      | U (0.09)            | —                | —                  | —             | U (0.002)      | U (0.002)      |
| 10/09/2003                     | --        | 376.11                      | —                             | —                | U (0.0005)       | U (0.32)       | U (0.0005)     | U (0.08)            | —                | —                  | —             | U (0.0005)     | U (0.001)      |
| 04/21/2004                     | --        | 375.80                      | —                             | —                | U (0.0005)       | U (0.5)        | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/21/2004                     | --        | 375.02                      | —                             | —                | U (0.0002)       | U (0.4)        | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.001)      |
| 05/19/2005                     | --        | 376.05                      | —                             | —                | U (0.0005)       | U (0.391)      | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/15/2006                     | --        | 375.77                      | —                             | —                | U (0.0005)       | U (0.397)      | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/15/2007                     | --        | 375.25                      | —                             | —                | U (0.0005)       | U (0.417)      | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.0015)     |
| 04/29/2008                     | --        | 376.04                      | —                             | —                | U (0.0005)       | U (0.481)      | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/12/2009                     | --        | 376.33                      | —                             | —                | U (0.0005)       | U (0.400)      | U (0.0005)     | U (0.05)            | —                | —                  | —             | U (0.0005)     | U (0.0015)     |

**Speedway 5310**  
**(7-Eleven 43003 - Former TNS 112)**

|                                | <i>Well Screen Interval</i> | <i>Ground Water Elevation</i> | <i>124-TMB</i> | <i>135-TMB</i> | <i>Benzene</i> | <i>DRO</i>  | <i>Ethylbenzene</i> | <i>GRO</i> | <i>Naphthalene</i> | <i>Sodium</i> | <i>Toluene</i> | <i>Xylenes</i> |
|--------------------------------|-----------------------------|-------------------------------|----------------|----------------|----------------|-------------|---------------------|------------|--------------------|---------------|----------------|----------------|
| <b>Unit</b>                    | <b>ft</b>                   | <b>ft</b>                     | <b>ppm</b>     | <b>ppm</b>     | <b>ppm</b>     | <b>ppm</b>  | <b>ppm</b>          | <b>ppm</b> | <b>ppm</b>         | <b>ppm</b>    | <b>ppm</b>     | <b>ppm</b>     |
| <b>GW Human Health Cleanup</b> |                             |                               | <u>0.056</u>   | <u>0.06</u>    | <u>0.0046</u>  | <u>1.5</u>  | <u>0.015</u>        | <u>2.2</u> | <u>0.0017</u>      |               | <u>1.1</u>     | <u>0.19</u>    |
| 06/15/2010                     | --                          | --                            | —              | —              | U (0.0005)     | U (0.431)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.00976)    |
| 05/24/2011                     | --                          | 376.07                        | —              | —              | U (0.0005)     | U (0.385)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/26/2011                     | --                          | 375.93                        | —              | —              | U (0.0005)     | U (0.403)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/22/2012                     | --                          | 376.07                        | —              | —              | U (0.0005)     | U (0.417)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/11/2012                     | --                          | 376.25                        | —              | —              | U (0.0005)     | U (0.403)   | U (0.001)           | U (0.05)   | —                  | —             | U (0.001)      | U (0.003)      |
| 05/21/2013                     | --                          | 376.29                        | —              | —              | U (0.0005)     | U (0.417)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 09/25/2013                     | --                          | 376.44                        | —              | —              | U (0.0005)     | U (0.385)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/06/2014                     | --                          | 376.40                        | —              | —              | U (0.0005)     | U (0.42)    | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 09/17/2014                     | --                          | 377.27                        | —              | —              | U (0.0005)     | U (0.39)    | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0005)     |
| 05/26/2015                     | --                          | 377.01                        | —              | —              | U (0.001)      | U (0.21)    | U (0.001)           | U (0.05)   | —                  | —             | U (0.001)      | U (0.001)      |
| 10/06/2015                     | --                          | 376.80                        | —              | —              | U (0.001)      | 0.84        | U (0.001)           | U (0.01)   | —                  | —             | U (0.001)      | U (0.003)      |
| 05/11/2016                     | --                          | 376.22                        | —              | —              | U (0.0020)     | U (0.0020)  | U (0.0020)          | U (0.0020) | —                  | —             | U (0.0020)     | U (0.0020)     |
| 10/05/2016                     | --                          | 376.51                        | —              | —              | U (0.0020)     | U (0.12)    | U (0.0030)          | U (0.05)   | —                  | —             | U (0.0020)     | U (0.0020)     |
| 05/08/2017                     | --                          | 376.51                        | —              | —              | U (0.002)      | U (0.11)    | U (0.003)           | U (1)      | —                  | —             | U (0.002)      | U (0.002)      |
| 09/05/2017                     | --                          | 376.45                        | —              | —              | U (0004)       | U (0.290)   | U (0.001)           | U (0.150)  | —                  | —             | U (0.001)      | U (0.003)      |
| 06/14/2018                     | --                          | 376.58                        | —              | —              | U (0.003)      | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.002)      |
| 10/30/2018                     | --                          | 376.34                        | —              | —              | U (0.003)      | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | 0.008400       |
| 05/09/2019                     | --                          | 376.11                        | —              | —              | U (0.003)      | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.003)      |
| 10/22/2019                     | --                          | 376.53                        | —              | —              | U (0.003)      | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.003)      |
| 08/18/2020                     | --                          | 376.86                        | —              | —              | U (0.200)      | J (0.210)   | U (0.500)           | U (0.0500) | —                  | —             | U (0.500)      | U (1.500)      |
| 10/06/2020                     | --                          | 376.50                        | —              | —              | U (0.001)      | U (0.800)   | U (0.001)           | U (0.0100) | —                  | —             | U (0.001)      | U (0.003)      |
| 06/24/2021                     | --                          | 376.77                        | —              | —              | U (0.001)      | U (0.800)   | U (0.001)           | J 0.0384   | —                  | —             | U (0.001)      | U (0.003)      |
| 10/13/2021                     | --                          | --                            | —              | —              | U (0.001)      | 0.376 J     | U (0.001)           | U (0.1)    | —                  | —             | U (0.001)      | 0.000221000    |
| 05/16/2022                     | --                          | 377.55                        | U(0.00100)     | 0.000565000    | U(0.00100)     | U(0.840)    | 0.000372000         | 0.0850     | U(0.000250)        | 8.98          | U(0.00100)     | U(0.00300)     |
| 09/26/2022                     | --                          | 376.78                        | U(0.00100)     | U(0.00100)     | U(0.00100)     | U(0.832)    | U(0.00100)          | 0.04650    | U(0.000250)        | 10.1          | U(0.00100)     | U(0.00300)     |
| 06/07/2023                     | --                          | 376.95                        | U(0.00100)     | U(0.00100)     | U(0.00100)     | U(0.800)    | U(0.00100)          | U(0.100)   | U(0.000250)        | 7.78          | U(0.00100)     | U(0.00300)     |
| 10/19/2023                     | --                          | 376.38                        | U(0.00100)     | U(0.00100)     | U(0.00100)     | U(0.888)    | U(0.00100)          | U(0.100)   | U(0.000250)        | 10.0          | U(0.00100)     | U(0.00300)     |
| 06/11/2024                     | --                          | 376.62                        | U(0.00100)     | U(0.00100)     | U(0.00100)     | U(0.800)    | U(0.00100)          | U(0.100)   | U(0.000250)        | 7.46          | U(0.00100)     | U(0.00300)     |
| <b>MW-10</b>                   |                             |                               |                |                |                |             |                     |            |                    |               |                |                |
| 09/17/2004                     | --                          | --                            | —              | —              | <u>0.01030</u> | U (0.385)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/21/2004                     | --                          | 373.28                        | —              | —              | U (0.0002)     | <u>2.19</u> | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.001)      |
| 05/19/2005                     | --                          | 374.19                        | —              | —              | U (0.0005)     | U (0.391)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 09/26/2005                     | --                          | 374.14                        | —              | —              | U (0.0005)     | U (0.397)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/15/2006                     | --                          | 373.96                        | —              | —              | U (0.0005)     | U (0.391)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 11/07/2006                     | --                          | 373.99                        | —              | —              | U (0.0005)     | U (0.442)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/15/2007                     | --                          | 373.58                        | —              | —              | U (0.0005)     | U (0.41)    | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/16/2007                     | --                          | 373.58                        | —              | —              | U (0.0005)     | U (0.427)   | U (0.0005)          | U (0.05)   | —                  | —             | 0.000745000    | 0.0084300      |
| 04/29/2008                     | --                          | 374.06                        | —              | —              | U (0.0005)     | U (0.424)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/01/2008                     | --                          | 374.39                        | —              | —              | U (0.0005)     | U (0.49)    | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/12/2009                     | --                          | 374.31                        | —              | —              | U (0.0005)     | U (0.403)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |

Speedway 5310  
(7-Eleven 43003 - Former TNS 112)

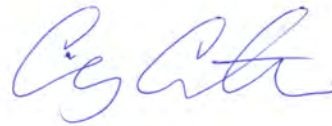
|                                | <i>Well Screen Interval</i> | <i>Ground Water Elevator.</i> | <i>124-TMB</i> | <i>135-TMB</i> | <i>Benzene</i>   | <i>DRO</i>  | <i>Ethylbenzene</i> | <i>GRO</i> | <i>Naphthalene</i> | <i>Sodium</i> | <i>Toluene</i> | <i>Xylenes</i> |
|--------------------------------|-----------------------------|-------------------------------|----------------|----------------|------------------|-------------|---------------------|------------|--------------------|---------------|----------------|----------------|
| Unit                           | ft                          | ft                            | ppm            | ppm            | ppm              | ppm         | ppm                 | ppm        | ppm                | ppm           | ppm            | ppm            |
| <b>GW Human Health Cleanup</b> |                             |                               | <u>0.056</u>   | <u>0.06</u>    | <u>0.0046</u>    | <u>1.5</u>  | <u>0.015</u>        | <u>2.2</u> | <u>0.0017</u>      |               | <u>1.1</u>     | <u>0.19</u>    |
| 10/26/2009                     | --                          | 374.04                        | —              | —              | U (0.0005)       | U (0.417)   | U (0.001)           | U (0.05)   | —                  | —             | U (0.001)      | U (0.003)      |
| 06/15/2010                     | --                          | 374.22                        | —              | —              | U (0.0005)       | U (0.417)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.00976)    |
| 10/14/2010                     | --                          | 374.09                        | —              | —              | U (0.0005)       | U (0.397)   | U (0.001)           | U (0.05)   | —                  | —             | U (0.001)      | U (0.003)      |
| 05/24/2011                     | --                          | 374.19                        | —              | —              | U (0.0005)       | U (0.410)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/26/2011                     | --                          | 374.06                        | —              | —              | U (0.0005)       | U (0.410)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/22/2012                     | --                          | 374.14                        | —              | —              | U (0.0005)       | U (0.410)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/11/2012                     | --                          | 374.30                        | —              | —              | U (0.0005)       | U (0.413)   | U (0.001)           | U (0.05)   | —                  | —             | U (0.001)      | U (0.003)      |
| 05/21/2013                     | --                          | 374.36                        | —              | —              | U (0.0005)       | U (0.410)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 09/25/2013                     | --                          | 374.48                        | —              | —              | U (0.0005)       | U (0.403)   | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/06/2014                     | --                          | 374.46                        | —              | —              | U (0.0005)       | U (0.41)    | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | 0.002700       |
| 09/17/2014                     | --                          | 375.48                        | —              | —              | U (0.0005)       | U (0.41)    | U (0.0005)          | U (0.05)   | —                  | —             | U (0.0005)     | U (0.0015)     |
| 05/26/2015                     | --                          | 375.22                        | —              | —              | U (0.001)        | U (0.22)    | U (0.001)           | U (0.05)   | —                  | —             | U (0.001)      | U (0.001)      |
| 10/06/2015                     | --                          | 374.86                        | —              | —              | U (0.001)        | 0.41        | U (0.001)           | U (0.1)    | —                  | —             | U (0.001)      | U (0.003)      |
| 05/11/2016                     | --                          | 374.34                        | —              | —              | U (0.0020)       | U (0.42)    | U (0.001)           | U (0.1)    | —                  | —             | U (0.001)      | U (0.003)      |
| 10/05/2016                     | --                          | 374.69                        | —              | —              | U (0.0020)       | <b>2.60</b> | U (0.003)           | U (0.05)   | —                  | —             | U (0.002)      | U (0.002)      |
| 05/08/2017                     | --                          | 374.59                        | —              | —              | U (0.002)        | U (0.11)    | U (0.003)           | U (1)      | —                  | —             | U (0.002)      | 0.005600       |
| 09/05/2017                     | --                          | 374.55                        | —              | —              | U (.0004)        | U (0.280)   | U (0.001)           | U (0.150)  | —                  | —             | U (0.001)      | U (0.003)      |
| 06/14/2018                     | --                          | 374.64                        | —              | —              | U (0.003)        | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.002)      |
| 10/30/2018                     | --                          | 374.46                        | —              | —              | U (0.003)        | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.003)      |
| 05/09/2019                     | --                          | 374.28                        | —              | —              | U (0.003)        | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.003)      |
| 10/22/2019                     | --                          | 374.64                        | —              | —              | U (0.003)        | U (0.12)    | U (0.003)           | U (0.25)   | —                  | —             | U (0.002)      | U (0.003)      |
| 08/18/2020                     | --                          | 374.92                        | —              | —              | U (0.0002)       | J (0.283)   | U (0.0005)          | U (0.050)  | —                  | —             | U (0.0005)     | U (0.0015)     |
| 10/06/2020                     | --                          | 374.59                        | —              | —              | U (0.001)        | U (0.800)   | U (0.001)           | U (0.0100) | —                  | —             | U (0.001)      | U (0.003)      |
| 06/24/2021                     | --                          | 374.81                        | —              | —              | U (0.001)        | U (0.800)   | U (0.001)           | U (0.0100) | —                  | —             | U (0.001)      | U (0.003)      |
| 10/13/2021                     | --                          | --                            | —              | —              | 0.0024700        | 0.403 J     | U (0.001)           | U (0.1)    | —                  | —             | U (0.001)      | U (0.003)      |
| 05/16/2022                     | --                          | 387.58                        | U(0.00100)     | U(0.00100)     | <b>0.0097400</b> | U(0.800)    | U(0.00100)          | 0.0330     | U(0.000250)        | 6.53          | 0.0038700      | 0.000289000    |
| 09/26/2022                     | --                          | 374.87                        | U(0.00100)     | U(0.00100)     | U(0.00100)       | U(0.872)    | U(0.00100)          | 0.02940    | U(0.000250)        | 7.56          | U(0.00100)     | U(0.00300)     |
| 04/27/2023                     | --                          | 374.56                        | U(0.00100)     | U(0.00100)     | U(0.00100)       | 0.203       | U(0.00100)          | 0.04930    | U(0.000250)        | 9.10          | U(0.00100)     | U(0.00300)     |
| 10/19/2023                     | --                          | 374.51                        | U(0.00100)     | U(0.00100)     | U(0.00100)       | U(0.944)    | U(0.00100)          | U(0.100)   | U(0.000250)        | 22.4          | U(0.00100)     | U(0.00300)     |
| 06/11/2024                     | --                          | 374.70                        | U(0.00100)     | U(0.00100)     | U(0.00100)       | U(0.800)    | U(0.00100)          | U(0.100)   | U(0.000250)        | 9.30          | U(0.00100)     | U(0.00300)     |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## Stantec - Anchorage, AK

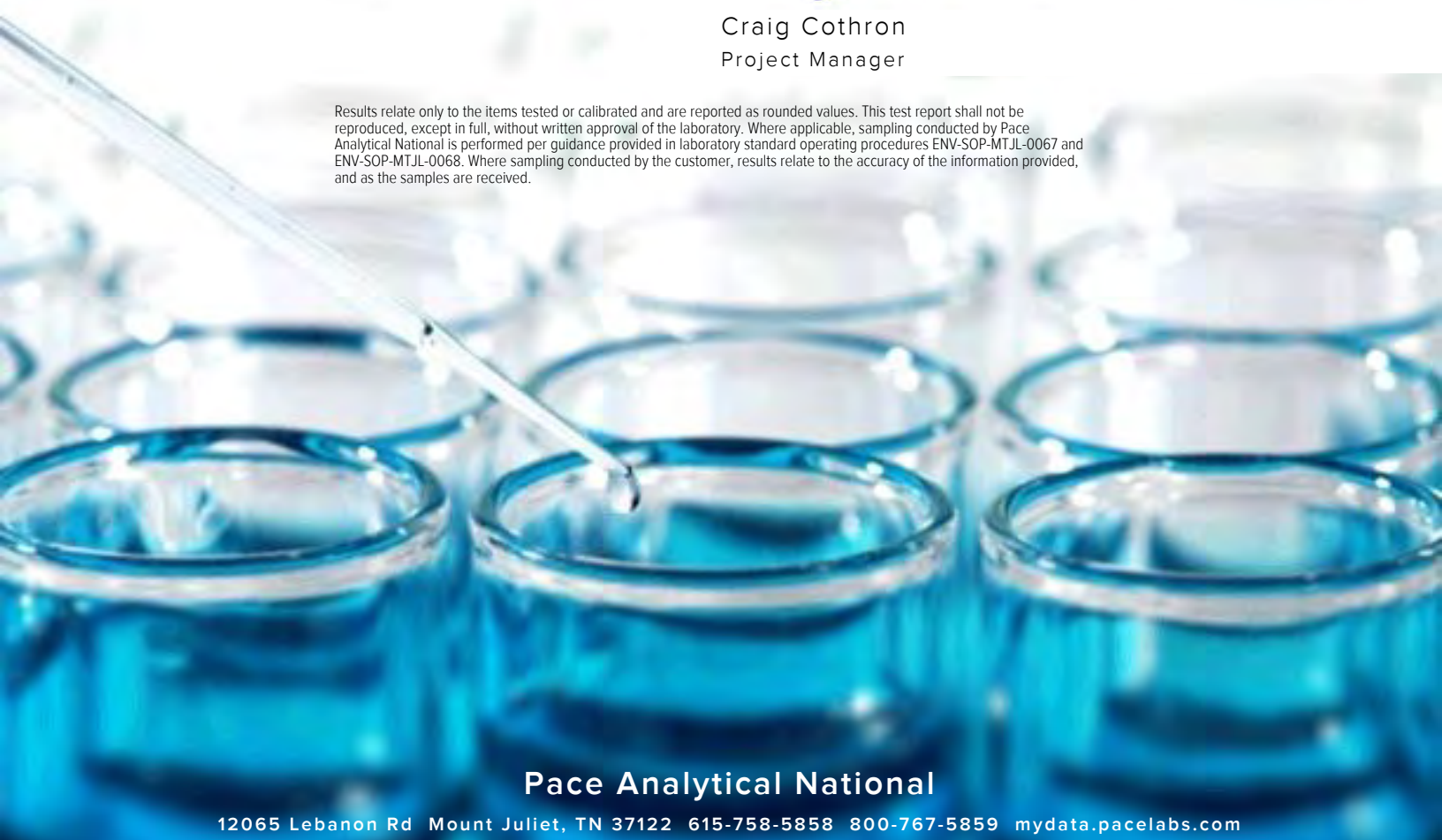
Sample Delivery Group: L1739790  
Samples Received: 05/23/2024  
Project Number: 203723642  
Description: TNS 112/5310 203723642  
Site: 5310  
Report To: Mr. John Marshall  
725 E Fireweed Lane  
Suite 200  
Anchorage, AK 99503

Entire Report Reviewed By:



Craig Cothron  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

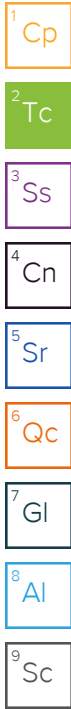


**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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| <b>TRIP BLANK L1739790-03</b>                                      | <b>9</b>  |
| <b>MW-3 L1739790-04</b>  | <b>10</b> |
| <b>DUP L1739790-05</b>   | <b>12</b> |
| <b>Qc: Quality Control Summary</b>                                 | <b>14</b> |
| <b>Metals (ICP) by Method 6010D</b>                                | <b>14</b> |
| <b>Volatile Organic Compounds (GC) by Method AK101</b>             | <b>15</b> |
| <b>Volatile Organic Compounds (GC/MS) by Method 8260C</b>          | <b>16</b> |
| <b>Semi-Volatile Organic Compounds (GC) by Method AK102</b>        | <b>18</b> |
| <b>Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM</b> | <b>19</b> |
| <b>Gl: Glossary of Terms</b>                                       | <b>21</b> |
| <b>Al: Accreditations &amp; Locations</b>                          | <b>22</b> |
| <b>Sc: Sample Chain of Custody</b>                                 | <b>23</b> |

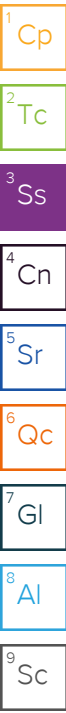


# SAMPLE SUMMARY

## MW17-2 L1739790-01 GW

Collected by: Remi Malenfant  
 Collected date/time: 05/20/24 11:07  
 Received date/time: 05/23/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2295543 | 1        | 06/01/24 17:25        | 06/02/24 11:29     | DJS     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2293128 | 1        | 05/25/24 10:47        | 05/25/24 10:47     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295146 | 1        | 05/30/24 01:21        | 05/30/24 01:21     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2296781 | 1        | 06/03/24 17:54        | 06/05/24 14:43     | TJD     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM | WG2293570 | 1        | 05/26/24 16:03        | 05/27/24 22:36     | MKM     | Mt. Juliet, TN |



## MW17-5 L1739790-02 GW

Collected by: Remi Malenfant  
 Collected date/time: 05/20/24 11:45  
 Received date/time: 05/23/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2295543 | 1        | 06/01/24 17:25        | 06/02/24 11:31     | DJS     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2293128 | 1        | 05/25/24 11:14        | 05/25/24 11:14     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295146 | 1        | 05/30/24 01:40        | 05/30/24 01:40     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295616 | 10       | 05/31/24 07:07        | 05/31/24 07:07     | KSD     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2296781 | 1        | 06/03/24 17:54        | 06/05/24 15:03     | TJD     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM | WG2293570 | 1        | 05/26/24 16:03        | 05/27/24 18:43     | MKM     | Mt. Juliet, TN |

## TRIP BLANK L1739790-03 GW

Collected by: Remi Malenfant  
 Collected date/time: 05/20/24 00:00  
 Received date/time: 05/23/24 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2295146 | 1        | 05/29/24 22:08        | 05/29/24 22:08     | ACG     | Mt. Juliet, TN |

## MW-3 L1739790-04 GW

Collected by: Remi Malenfant  
 Collected date/time: 05/20/24 15:22  
 Received date/time: 05/23/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2295543 | 1        | 06/01/24 17:25        | 06/02/24 11:36     | DJS     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2293128 | 10       | 05/25/24 13:02        | 05/25/24 13:02     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295146 | 5        | 05/30/24 02:58        | 05/30/24 02:58     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295616 | 100      | 05/31/24 07:28        | 05/31/24 07:28     | KSD     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2296781 | 1        | 06/03/24 17:54        | 06/05/24 15:38     | TJD     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM | WG2293570 | 1        | 05/26/24 16:03        | 05/27/24 22:17     | MKM     | Mt. Juliet, TN |

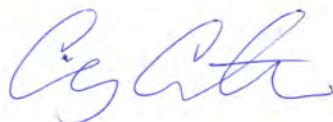
## DUP L1739790-05 GW

Collected by: Remi Malenfant  
 Collected date/time: 05/20/24 00:00  
 Received date/time: 05/23/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2295543 | 1        | 06/01/24 17:25        | 06/02/24 11:38     | DJS     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2293128 | 10       | 05/25/24 13:30        | 05/25/24 13:30     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295146 | 1        | 05/30/24 02:00        | 05/30/24 02:00     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2295616 | 50       | 05/31/24 07:48        | 05/31/24 07:48     | KSD     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2296781 | 1.11     | 06/03/24 17:54        | 06/05/24 16:06     | TJD     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM | WG2293570 | 1        | 05/26/24 16:03        | 05/27/24 21:57     | MKM     | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Craig Cothron  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 250    |           | 0.504 | 3.00 | 1        | 06/02/2024 11:29 | <a href="#">WG2295543</a> |

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 0.637  |           | 0.0287 | 0.100    | 1        | 05/25/2024 10:47 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 96.7   |           |        | 50.0-150 |          | 05/25/2024 10:47 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 0.000  | <u>J2</u> |        | 79.0-125 |          | 05/25/2024 10:47 | <a href="#">WG2293128</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C

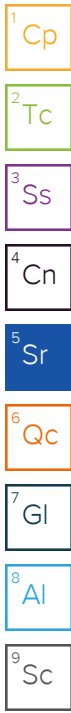
| Analyte                   | Result   | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l     |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | 0.00104  |           | 0.0000941 | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| n-Butylbenzene            | 0.000985 | <u>J</u>  | 0.000157  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| sec-Butylbenzene          | 0.00192  |           | 0.000125  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| tert-Butylbenzene         | 0.000144 | <u>J</u>  | 0.000127  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| Ethylbenzene              | 0.0218   |           | 0.000137  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| Isopropylbenzene          | 0.00731  |           | 0.000105  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| Naphthalene               | 0.00186  | <u>J</u>  | 0.00100   | 0.00500  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| Toluene                   | 0.00231  |           | 0.000278  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| 1,2,4-Trimethylbenzene    | 0.127    |           | 0.000322  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| 1,3,5-Trimethylbenzene    | 0.0208   |           | 0.000104  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| m&p-Xylene                | 0.0835   |           | 0.000430  | 0.00200  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| o-Xylene                  | 0.0122   |           | 0.000174  | 0.00100  | 1        | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| (S) Toluene-d8            | 96.3     |           |           | 80.0-120 |          | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| (S) 4-Bromofluorobenzene  | 92.8     |           |           | 77.0-126 |          | 05/30/2024 01:21 | <a href="#">WG2295146</a> |
| (S) 1,2-Dichloroethane-d4 | 120      |           |           | 70.0-130 |          | 05/30/2024 01:21 | <a href="#">WG2295146</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 0.931  | <u>B</u>  | 0.170 | 0.800    | 1        | 06/05/2024 14:43 | <a href="#">WG2296781</a> |
| (S) o-Terphenyl   | 50.1   |           |       | 50.0-150 |          | 06/05/2024 14:43 | <a href="#">WG2296781</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U         |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Acenaphthene           | 0.0000692 |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Benzo(a)anthracene     | 0.0000322 | <u>J</u>  | 0.0000203 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Benzo(a)pyrene         | 0.0000395 | <u>J</u>  | 0.0000184 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Benzo(b)fluoranthene   | 0.0000803 |           | 0.0000168 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Benzo(g,h,i)perylene   | 0.000104  |           | 0.0000184 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Benzo(k)fluoranthene   | 0.0000427 | <u>J</u>  | 0.0000202 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Chrysene               | 0.0000438 | <u>J</u>  | 0.0000179 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Dibenz(a,h)anthracene  | 0.0000185 | <u>J</u>  | 0.0000160 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Fluoranthene           | 0.0000660 | <u>J</u>  | 0.0000270 | 0.000100  | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Fluorene               | 0.0000928 |           | 0.0000169 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Indeno(1,2,3-cd)pyrene | 0.0000797 |           | 0.0000158 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Naphthalene            | 0.00127   |           | 0.0000917 | 0.000250  | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Phenanthrene           | 0.000108  |           | 0.0000180 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |
| Pyrene                 | 0.000145  |           | 0.0000169 | 0.0000500 | 1        | 05/27/2024 22:36 | <a href="#">WG2293570</a> |



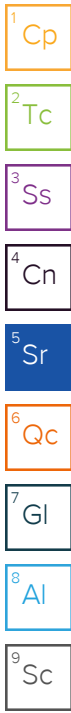
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                     | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1-Methylnaphthalene         | 0.00158        |           | 0.0000687   | 0.000250    | 1        | 05/27/2024 22:36        | <a href="#">WG2293570</a> |
| 2-Methylnaphthalene         | 0.000957       |           | 0.0000674   | 0.000250    | 1        | 05/27/2024 22:36        | <a href="#">WG2293570</a> |
| 2-Chloronaphthalene         | U              |           | 0.0000682   | 0.000250    | 1        | 05/27/2024 22:36        | <a href="#">WG2293570</a> |
| <i>(S)</i> Nitrobenzene-d5  | 102            |           |             | 31.0-160    |          | 05/27/2024 22:36        | <a href="#">WG2293570</a> |
| <i>(S)</i> 2-Fluorobiphenyl | 88.0           |           |             | 48.0-148    |          | 05/27/2024 22:36        | <a href="#">WG2293570</a> |
| <i>(S)</i> p-Terphenyl-d14  | 65.0           |           |             | 37.0-146    |          | 05/27/2024 22:36        | <a href="#">WG2293570</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 10.7   |           | 0.504 | 3.00 | 1        | 06/02/2024 11:31 | <a href="#">WG2295543</a> |



Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 0.986  |           | 0.0287 | 0.100    | 1        | 05/25/2024 11:14 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.2   |           |        | 50.0-150 |          | 05/25/2024 11:14 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 0.000  | <u>J2</u> |        | 79.0-125 |          | 05/25/2024 11:14 | <a href="#">WG2293128</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                   | Result   | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l     |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | 0.0159   |           | 0.0000941 | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| n-Butylbenzene            | 0.000713 | <u>J</u>  | 0.000157  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| sec-Butylbenzene          | 0.00103  |           | 0.000125  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| tert-Butylbenzene         | U        |           | 0.000127  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| Ethylbenzene              | 0.109    |           | 0.000137  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| Isopropylbenzene          | 0.00724  |           | 0.000105  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| Naphthalene               | 0.00128  | <u>J</u>  | 0.00100   | 0.00500  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| Toluene                   | 0.0846   |           | 0.000278  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| 1,2,4-Trimethylbenzene    | 0.0932   |           | 0.000322  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| 1,3,5-Trimethylbenzene    | 0.0338   |           | 0.000104  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| m&p-Xylene                | 0.260    |           | 0.00430   | 0.0200   | 10       | 05/31/2024 07:07 | <a href="#">WG2295616</a> |
| o-Xylene                  | 0.104    |           | 0.000174  | 0.00100  | 1        | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| (S) Toluene-d8            | 87.8     |           |           | 80.0-120 |          | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| (S) Toluene-d8            | 104      |           |           | 80.0-120 |          | 05/31/2024 07:07 | <a href="#">WG2295616</a> |
| (S) 4-Bromofluorobenzene  | 92.7     |           |           | 77.0-126 |          | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| (S) 4-Bromofluorobenzene  | 107      |           |           | 77.0-126 |          | 05/31/2024 07:07 | <a href="#">WG2295616</a> |
| (S) 1,2-Dichloroethane-d4 | 109      |           |           | 70.0-130 |          | 05/30/2024 01:40 | <a href="#">WG2295146</a> |
| (S) 1,2-Dichloroethane-d4 | 125      |           |           | 70.0-130 |          | 05/31/2024 07:07 | <a href="#">WG2295616</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier  | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|------------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |            | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 0.287  | <u>B J</u> | 0.170 | 0.800    | 1        | 06/05/2024 15:03 | <a href="#">WG2296781</a> |
| (S) o-Terphenyl   | 72.8   |            |       | 50.0-150 |          | 06/05/2024 15:03 | <a href="#">WG2296781</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                | Result | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|--------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l   |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U      |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Acenaphthene           | U      |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Acenaphthylene         | U      |           | 0.0000171 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Benzo(a)anthracene     | U      |           | 0.0000203 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Benzo(a)pyrene         | U      |           | 0.0000184 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Benzo(b)fluoranthene   | U      |           | 0.0000168 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Benzo(g,h,i)perylene   | U      |           | 0.0000184 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Benzo(k)fluoranthene   | U      |           | 0.0000202 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Chrysene               | U      |           | 0.0000179 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Dibenz(a,h)anthracene  | U      |           | 0.0000160 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Fluoranthene           | U      |           | 0.0000270 | 0.000100  | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Fluorene               | U      |           | 0.0000169 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |
| Indeno(1,2,3-cd)pyrene | U      |           | 0.0000158 | 0.0000500 | 1        | 05/27/2024 18:43 | <a href="#">WG2293570</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte              | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene          | U              |           | 0.0000917   | 0.000250    | 1        | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| Phenanthrene         | U              |           | 0.0000180   | 0.0000500   | 1        | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| Pyrene               | U              |           | 0.0000169   | 0.0000500   | 1        | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| 1-Methylnaphthalene  | U              |           | 0.0000687   | 0.000250    | 1        | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| 2-Methylnaphthalene  | U              |           | 0.0000674   | 0.000250    | 1        | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| 2-Chloronaphthalene  | U              |           | 0.0000682   | 0.000250    | 1        | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| (S) Nitrobenzene-d5  | 117            |           |             | 31.0-160    |          | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| (S) 2-Fluorobiphenyl | 120            |           |             | 48.0-148    |          | 05/27/2024 18:43        | <a href="#">WG2293570</a> |
| (S) p-Terphenyl-d14  | 124            |           |             | 37.0-146    |          | 05/27/2024 18:43        | <a href="#">WG2293570</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                   | Result | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l   |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | U      |           | 0.0000941 | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| n-Butylbenzene            | U      |           | 0.000157  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| sec-Butylbenzene          | U      |           | 0.000125  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| tert-Butylbenzene         | U      |           | 0.000127  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| Ethylbenzene              | U      |           | 0.000137  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| Isopropylbenzene          | U      |           | 0.000105  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| Naphthalene               | U      |           | 0.00100   | 0.00500  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| Toluene                   | U      |           | 0.000278  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| 1,2,4-Trimethylbenzene    | U      |           | 0.000322  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| 1,3,5-Trimethylbenzene    | U      |           | 0.000104  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| m&p-Xylene                | U      |           | 0.000430  | 0.00200  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| o-Xylene                  | U      |           | 0.000174  | 0.00100  | 1        | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| (S) Toluene-d8            | 101    |           |           | 80.0-120 |          | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| (S) 4-Bromofluorobenzene  | 92.4   |           |           | 77.0-126 |          | 05/29/2024 22:08 | <a href="#">WG2295146</a> |
| (S) 1,2-Dichloroethane-d4 | 122    |           |           | 70.0-130 |          | 05/29/2024 22:08 | <a href="#">WG2295146</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 49.6   |           | 0.504 | 3.00 | 1        | 06/02/2024 11:36 | <a href="#">WG2295543</a> |

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 10.1   |           | 0.287 | 1.00     | 10       | 05/25/2024 13:02 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.6   |           |       | 50.0-150 |          | 05/25/2024 13:02 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 0.000  | J2        |       | 79.0-125 |          | 05/25/2024 13:02 | <a href="#">WG2293128</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte                   | Result  | Qualifier | MDL      | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|---------|-----------|----------|----------|----------|------------------|---------------------------|
|                           | mg/l    |           | mg/l     | mg/l     |          | date / time      |                           |
| Benzene                   | 0.0139  |           | 0.000471 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| n-Butylbenzene            | 0.00305 | J         | 0.000785 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| sec-Butylbenzene          | 0.00493 | J         | 0.000625 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| tert-Butylbenzene         | U       |           | 0.000635 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| Ethylbenzene              | 0.395   |           | 0.000685 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| Isopropylbenzene          | 0.0515  |           | 0.000525 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| Naphthalene               | 0.0132  | J         | 0.00500  | 0.0250   | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| Toluene                   | 0.209   |           | 0.00139  | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| 1,2,4-Trimethylbenzene    | 0.801   |           | 0.0322   | 0.100    | 100      | 05/31/2024 07:28 | <a href="#">WG2295616</a> |
| 1,3,5-Trimethylbenzene    | 0.255   |           | 0.000520 | 0.00500  | 5        | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| m&p-Xylene                | 3.10    |           | 0.0430   | 0.200    | 100      | 05/31/2024 07:28 | <a href="#">WG2295616</a> |
| o-Xylene                  | 1.31    |           | 0.0174   | 0.100    | 100      | 05/31/2024 07:28 | <a href="#">WG2295616</a> |
| (S) Toluene-d8            | 93.1    |           |          | 80.0-120 |          | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| (S) Toluene-d8            | 96.9    |           |          | 80.0-120 |          | 05/31/2024 07:28 | <a href="#">WG2295616</a> |
| (S) 4-Bromofluorobenzene  | 92.9    |           |          | 77.0-126 |          | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| (S) 4-Bromofluorobenzene  | 104     |           |          | 77.0-126 |          | 05/31/2024 07:28 | <a href="#">WG2295616</a> |
| (S) 1,2-Dichloroethane-d4 | 116     |           |          | 70.0-130 |          | 05/30/2024 02:58 | <a href="#">WG2295146</a> |
| (S) 1,2-Dichloroethane-d4 | 138     | J1        |          | 70.0-130 |          | 05/31/2024 07:28 | <a href="#">WG2295616</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 2.14   | B         | 0.170 | 0.800    | 1        | 06/05/2024 15:38 | <a href="#">WG2296781</a> |
| (S) o-Terphenyl   | 64.0   |           |       | 50.0-150 |          | 06/05/2024 15:38 | <a href="#">WG2296781</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U         |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Acenaphthene           | 0.000155  |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Benzo(a)anthracene     | U         |           | 0.0000203 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Benzo(a)pyrene         | U         |           | 0.0000184 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Benzo(b)fluoranthene   | 0.0000314 | J         | 0.0000168 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Benzo(g,h,i)perylene   | 0.0000488 | J         | 0.0000184 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Benzo(k)fluoranthene   | U         |           | 0.0000202 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Chrysene               | U         |           | 0.0000179 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Dibenz(a,h)anthracene  | U         |           | 0.0000160 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Fluoranthene           | 0.0000425 | J         | 0.0000270 | 0.000100  | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Fluorene               | 0.000312  |           | 0.0000169 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |
| Indeno(1,2,3-cd)pyrene | 0.0000176 | J         | 0.0000158 | 0.0000500 | 1        | 05/27/2024 22:17 | <a href="#">WG2293570</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                     | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene                 | 0.0216         |           | 0.0000917   | 0.000250    | 1        | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| Phenanthrene                | 0.0000840      |           | 0.0000180   | 0.0000500   | 1        | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| Pyrene                      | 0.0000600      |           | 0.0000169   | 0.0000500   | 1        | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| 1-Methylnaphthalene         | 0.00192        |           | 0.0000687   | 0.000250    | 1        | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| 2-Methylnaphthalene         | 0.00128        |           | 0.0000674   | 0.000250    | 1        | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| 2-Chloronaphthalene         | U              |           | 0.0000682   | 0.000250    | 1        | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| <i>(S)</i> Nitrobenzene-d5  | 136            |           |             | 31.0-160    |          | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| <i>(S)</i> 2-Fluorobiphenyl | 120            |           |             | 48.0-148    |          | 05/27/2024 22:17        | <a href="#">WG2293570</a> |
| <i>(S)</i> p-Terphenyl-d14  | 108            |           |             | 37.0-146    |          | 05/27/2024 22:17        | <a href="#">WG2293570</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 50.1   |           | 0.504 | 3.00 | 1        | 06/02/2024 11:38 | <a href="#">WG2295543</a> |

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 8.84   |           | 0.287 | 1.00     | 10       | 05/25/2024 13:30 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.7   |           |       | 50.0-150 |          | 05/25/2024 13:30 | <a href="#">WG2293128</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 0.000  | J2        |       | 79.0-125 |          | 05/25/2024 13:30 | <a href="#">WG2293128</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C

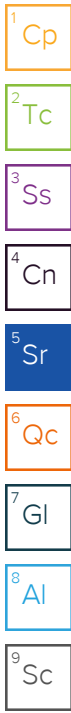
| Analyte                   | Result   | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l     |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | 0.0146   |           | 0.0000941 | 0.00100  | 1        | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| n-Butylbenzene            | 0.00246  |           | 0.000157  | 0.00100  | 1        | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| sec-Butylbenzene          | 0.00476  |           | 0.000125  | 0.00100  | 1        | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| tert-Butylbenzene         | 0.000453 | J         | 0.000127  | 0.00100  | 1        | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| Ethylbenzene              | 0.330    |           | 0.00685   | 0.0500   | 50       | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| Isopropylbenzene          | 0.0511   |           | 0.000105  | 0.00100  | 1        | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| Naphthalene               | 0.0161   |           | 0.00100   | 0.00500  | 1        | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| Toluene                   | 0.176    |           | 0.0139    | 0.0500   | 50       | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| 1,2,4-Trimethylbenzene    | 0.768    |           | 0.0161    | 0.0500   | 50       | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| 1,3,5-Trimethylbenzene    | 0.235    |           | 0.00520   | 0.0500   | 50       | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| m&p-Xylene                | 2.83     |           | 0.0215    | 0.100    | 50       | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| o-Xylene                  | 1.21     |           | 0.00870   | 0.0500   | 50       | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| (S) Toluene-d8            | 80.7     |           |           | 80.0-120 |          | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| (S) Toluene-d8            | 87.2     |           |           | 80.0-120 |          | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| (S) 4-Bromofluorobenzene  | 88.4     |           |           | 77.0-126 |          | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| (S) 4-Bromofluorobenzene  | 99.8     |           |           | 77.0-126 |          | 05/31/2024 07:48 | <a href="#">WG2295616</a> |
| (S) 1,2-Dichloroethane-d4 | 115      |           |           | 70.0-130 |          | 05/30/2024 02:00 | <a href="#">WG2295146</a> |
| (S) 1,2-Dichloroethane-d4 | 140      | J1        |           | 70.0-130 |          | 05/31/2024 07:48 | <a href="#">WG2295616</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 1.79   | B         | 0.189 | 0.888    | 1.11     | 06/05/2024 16:06 | <a href="#">WG2296781</a> |
| (S) o-Terphenyl   | 71.2   |           |       | 50.0-150 |          | 06/05/2024 16:06 | <a href="#">WG2296781</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U         |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Acenaphthene           | 0.000154  |           | 0.0000190 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Benzo(a)anthracene     | U         |           | 0.0000203 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Benzo(a)pyrene         | U         |           | 0.0000184 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Benzo(b)fluoranthene   | 0.0000217 | J         | 0.0000168 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Benzo(g,h,i)perylene   | 0.0000364 | J         | 0.0000184 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Benzo(k)fluoranthene   | U         |           | 0.0000202 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Chrysene               | U         |           | 0.0000179 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Dibenz(a,h)anthracene  | U         |           | 0.0000160 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Fluoranthene           | 0.0000309 | J         | 0.0000270 | 0.000100  | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Fluorene               | 0.000284  |           | 0.0000169 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |
| Indeno(1,2,3-cd)pyrene | 0.0000168 | J         | 0.0000158 | 0.0000500 | 1        | 05/27/2024 21:57 | <a href="#">WG2293570</a> |





Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

| Analyte                     | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene                 | 0.0205         |           | 0.0000917   | 0.000250    | 1        | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| Phenanthrene                | 0.0000755      |           | 0.0000180   | 0.0000500   | 1        | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| Pyrene                      | 0.0000513      |           | 0.0000169   | 0.0000500   | 1        | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| 1-Methylnaphthalene         | 0.00186        |           | 0.0000687   | 0.000250    | 1        | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| 2-Methylnaphthalene         | 0.00119        |           | 0.0000674   | 0.000250    | 1        | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| 2-Chloronaphthalene         | U              |           | 0.0000682   | 0.000250    | 1        | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| <i>(S)</i> Nitrobenzene-d5  | 133            |           |             | 31.0-160    |          | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| <i>(S)</i> 2-Fluorobiphenyl | 119            |           |             | 48.0-148    |          | 05/27/2024 21:57        | <a href="#">WG2293570</a> |
| <i>(S)</i> p-Terphenyl-d14  | 111            |           |             | 37.0-146    |          | 05/27/2024 21:57        | <a href="#">WG2293570</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4076279-1 06/02/24 11:16

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Sodium  | U         |              | 0.504  | 3.00   |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R4076279-2 06/02/24 11:18

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Sodium  | 10.0         | 10.3       | 103      | 80.0-120    |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1739777-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739777-01 06/02/24 11:19 • (MS) R4076279-4 06/02/24 11:23 • (MSD) R4076279-5 06/02/24 11:24

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD    | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|--------|------------|
| Sodium  | 10.0         | 342             | 345       | 345        | 27.1    | 25.7     | 1        | 75.0-125    | <u>V</u>     | <u>V</u>      | 0.0383 | 20         |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4075938-3 05/24/24 20:58

| Analyte                            | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| TPHGAK C6 to C10                   | U                 |              | 0.0287         | 0.100          |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 90.7              |              |                | 60.0-120       |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 0.000             | <u>J2</u>    |                | 79.0-125       |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075938-1 05/24/24 19:37 • (LCSD) R4075938-2 05/24/24 20:04

| Analyte                            | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPHGAK C6 to C10                   | 5.00                 | 5.26               | 5.43                | 105           | 109            | 60.0-120         |               |                | 3.18     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 100           | 96.9           | 60.0-120         |               |                |          |                 |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                      |                    |                     | 0.000         | 0.000          | 79.0-125         | <u>J2</u>     | <u>J2</u>      |          |                 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4075289-2 05/29/24 18:45

| Analyte                   | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene                   | U                 |              | 0.0000941      | 0.00100        |
| n-Butylbenzene            | U                 |              | 0.000157       | 0.00100        |
| sec-Butylbenzene          | U                 |              | 0.000125       | 0.00100        |
| tert-Butylbenzene         | U                 |              | 0.000127       | 0.00100        |
| Ethylbenzene              | U                 |              | 0.000137       | 0.00100        |
| Isopropylbenzene          | U                 |              | 0.000105       | 0.00100        |
| Naphthalene               | U                 |              | 0.00100        | 0.00500        |
| Toluene                   | U                 |              | 0.000278       | 0.00100        |
| 1,2,4-Trimethylbenzene    | U                 |              | 0.000322       | 0.00100        |
| 1,3,5-Trimethylbenzene    | U                 |              | 0.000104       | 0.00100        |
| m&p-Xylene                | U                 |              | 0.000430       | 0.00200        |
| o-Xylene                  | U                 |              | 0.000174       | 0.00100        |
| (S) Toluene-d8            | 97.3              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 91.3              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 126               |              |                | 70.0-130       |

Laboratory Control Sample (LCS)

(LCS) R4075289-1 05/29/24 17:13

| Analyte                   | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Benzene                   | 0.00500              | 0.00500            | 100           | 70.0-123         |               |
| n-Butylbenzene            | 0.00500              | 0.00447            | 89.4          | 73.0-125         |               |
| sec-Butylbenzene          | 0.00500              | 0.00518            | 104           | 75.0-125         |               |
| tert-Butylbenzene         | 0.00500              | 0.00481            | 96.2          | 76.0-124         |               |
| Ethylbenzene              | 0.00500              | 0.00432            | 86.4          | 79.0-123         |               |
| Isopropylbenzene          | 0.00500              | 0.00438            | 87.6          | 76.0-127         |               |
| Naphthalene               | 0.00500              | 0.00420            | 84.0          | 54.0-135         | J             |
| Toluene                   | 0.00500              | 0.00464            | 92.8          | 79.0-120         |               |
| 1,2,4-Trimethylbenzene    | 0.00500              | 0.00512            | 102           | 76.0-121         |               |
| 1,3,5-Trimethylbenzene    | 0.00500              | 0.00512            | 102           | 76.0-122         |               |
| m&p-Xylene                | 0.0100               | 0.00881            | 88.1          | 80.0-122         |               |
| o-Xylene                  | 0.00500              | 0.00443            | 88.6          | 80.0-122         |               |
| (S) Toluene-d8            |                      |                    | 95.8          | 80.0-120         |               |
| (S) 4-Bromofluorobenzene  |                      |                    | 92.6          | 77.0-126         |               |
| (S) 1,2-Dichloroethane-d4 |                      |                    | 119           | 70.0-130         |               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4075852-3 05/30/24 22:16

| Analyte                   | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|---------------------------|-----------|--------------|----------|----------|
|                           | mg/l      |              | mg/l     | mg/l     |
| Ethylbenzene              | U         |              | 0.000137 | 0.00100  |
| Toluene                   | U         |              | 0.000278 | 0.00100  |
| 1,2,4-Trimethylbenzene    | U         |              | 0.000322 | 0.00100  |
| 1,3,5-Trimethylbenzene    | U         |              | 0.000104 | 0.00100  |
| m&p-Xylene                | U         |              | 0.000430 | 0.00200  |
| o-Xylene                  | U         |              | 0.000174 | 0.00100  |
| (S) Toluene-d8            | 108       |              |          | 80.0-120 |
| (S) 4-Bromofluorobenzene  | 102       |              |          | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 130       |              |          | 70.0-130 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4075852-1 05/30/24 20:52 • (LCSD) R4075852-2 05/30/24 21:23

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                           | mg/l         | mg/l       | mg/l        | %        | %         | %           |               |                | %    | %          |
| Ethylbenzene              | 0.00500      | 0.00453    | 0.00433     | 90.6     | 86.6      | 79.0-123    |               |                | 4.51 | 20         |
| Toluene                   | 0.00500      | 0.00464    | 0.00434     | 92.8     | 86.8      | 79.0-120    |               |                | 6.68 | 20         |
| 1,2,4-Trimethylbenzene    | 0.00500      | 0.00447    | 0.00422     | 89.4     | 84.4      | 76.0-121    |               |                | 5.75 | 20         |
| 1,3,5-Trimethylbenzene    | 0.00500      | 0.00492    | 0.00428     | 98.4     | 85.6      | 76.0-122    |               |                | 13.9 | 20         |
| m&p-Xylene                | 0.0100       | 0.00956    | 0.00930     | 95.6     | 93.0      | 80.0-122    |               |                | 2.76 | 20         |
| o-Xylene                  | 0.00500      | 0.00481    | 0.00447     | 96.2     | 89.4      | 80.0-122    |               |                | 7.33 | 20         |
| (S) Toluene-d8            |              |            |             | 98.9     | 100       | 80.0-120    |               |                |      |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 97.9     | 96.4      | 77.0-126    |               |                |      |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 125      | 126       | 70.0-130    |               |                |      |            |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4077846-5 06/05/24 14:23

| Analyte           | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-------------------|-----------|--------------|--------|----------|
|                   | mg/l      |              | mg/l   | mg/l     |
| AK102 DRO C10-C25 | 0.227     | <u>J</u>     | 0.170  | 0.800    |
| (S) o-Terphenyl   | 60.0      |              |        | 60.0-120 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4077846-1 06/05/24 11:40 • (LCSD) R4077846-2 06/05/24 12:00

| Analyte           | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                   | mg/l         | mg/l       | mg/l        | %        | %         | %           |               |                | %    | %          |
| AK102 DRO C10-C25 | 6.00         | 4.89       | 5.34        | 81.5     | 89.0      | 75.0-125    |               |                | 8.80 | 20         |
| (S) o-Terphenyl   |              |            |             | 23.3     | 32.5      | 60.0-120    | <u>J2</u>     | <u>J2</u>      |      |            |

L1739666-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1739666-01 06/05/24 12:20 • (MS) R4077846-3 06/05/24 12:40 • (MSD) R4077846-4 06/05/24 13:00

| Analyte           | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
|                   | mg/l         | mg/l            | mg/l      | mg/l       | %       | %        |          | %           |              |               | %    | %          |
| AK102 DRO C10-C25 | 6.00         | 1.74            | 6.18      | 6.08       | 74.0    | 72.3     | 1        | 75.0-125    | <u>J6</u>    | <u>J6</u>     | 1.63 | 20         |
| (S) o-Terphenyl   |              |                 |           |            | 42.3    | 35.3     |          | 50.0-150    | <u>J2</u>    | <u>J2</u>     |      |            |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4074551-3 05/27/24 16:08

| Analyte                | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|------------------------|-------------------|--------------|----------------|----------------|
| Anthracene             | U                 |              | 0.0000190      | 0.0000500      |
| Acenaphthene           | U                 |              | 0.0000190      | 0.0000500      |
| Acenaphthylene         | U                 |              | 0.0000171      | 0.0000500      |
| Benzo(a)anthracene     | U                 |              | 0.0000203      | 0.0000500      |
| Benzo(a)pyrene         | U                 |              | 0.0000184      | 0.0000500      |
| Benzo(b)fluoranthene   | U                 |              | 0.0000168      | 0.0000500      |
| Benzo(g,h,i)perylene   | U                 |              | 0.0000184      | 0.0000500      |
| Benzo(k)fluoranthene   | U                 |              | 0.0000202      | 0.0000500      |
| Chrysene               | U                 |              | 0.0000179      | 0.0000500      |
| Dibenz(a,h)anthracene  | U                 |              | 0.0000160      | 0.0000500      |
| Fluoranthene           | U                 |              | 0.0000270      | 0.000100       |
| Fluorene               | U                 |              | 0.0000169      | 0.0000500      |
| Indeno(1,2,3-cd)pyrene | U                 |              | 0.0000158      | 0.0000500      |
| Naphthalene            | U                 |              | 0.0000917      | 0.000250       |
| Phenanthrene           | U                 |              | 0.0000180      | 0.0000500      |
| Pyrene                 | U                 |              | 0.0000169      | 0.0000500      |
| 1-Methylnaphthalene    | U                 |              | 0.0000687      | 0.000250       |
| 2-Methylnaphthalene    | U                 |              | 0.0000674      | 0.000250       |
| 2-Chloronaphthalene    | U                 |              | 0.0000682      | 0.000250       |
| (S) Nitrobenzene-d5    | 123               |              |                | 31.0-160       |
| (S) 2-Fluorobiphenyl   | 120               |              |                | 48.0-148       |
| (S) p-Terphenyl-d14    | 132               |              |                | 37.0-146       |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074551-1 05/27/24 15:29 • (LCSD) R4074551-2 05/27/24 15:48

| Analyte               | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Anthracene            | 0.00200              | 0.00225            | 0.00218             | 112           | 109            | 67.0-150         |               |                | 3.16     | 20              |
| Acenaphthene          | 0.00200              | 0.00233            | 0.00236             | 117           | 118            | 65.0-138         |               |                | 1.28     | 20              |
| Acenaphthylene        | 0.00200              | 0.00225            | 0.00227             | 112           | 114            | 66.0-140         |               |                | 0.885    | 20              |
| Benzo(a)anthracene    | 0.00200              | 0.00218            | 0.00223             | 109           | 111            | 61.0-140         |               |                | 2.27     | 20              |
| Benzo(a)pyrene        | 0.00200              | 0.00235            | 0.00238             | 117           | 119            | 60.0-143         |               |                | 1.27     | 20              |
| Benzo(b)fluoranthene  | 0.00200              | 0.00273            | 0.00275             | 137           | 137            | 58.0-141         |               |                | 0.730    | 20              |
| Benzo(g,h,i)perylene  | 0.00200              | 0.00258            | 0.00255             | 129           | 128            | 52.0-153         |               |                | 1.17     | 20              |
| Benzo(k)fluoranthene  | 0.00200              | 0.00247            | 0.00255             | 123           | 128            | 58.0-148         |               |                | 3.19     | 20              |
| Chrysene              | 0.00200              | 0.00252            | 0.00259             | 126           | 130            | 64.0-144         |               |                | 2.74     | 20              |
| Dibenz(a,h)anthracene | 0.00200              | 0.00244            | 0.00243             | 122           | 122            | 52.0-155         |               |                | 0.411    | 20              |
| Fluoranthene          | 0.00200              | 0.00246            | 0.00246             | 123           | 123            | 69.0-153         |               |                | 0.000    | 20              |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4074551-1 05/27/24 15:29 • (LCSD) R4074551-2 05/27/24 15:48

| Analyte                     | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Fluorene                    | 0.00200              | 0.00253            | 0.00260             | 126           | 130            | 64.0-136         |                      |                       | 2.73     | 20              |
| Indeno(1,2,3-cd)pyrene      | 0.00200              | 0.00223            | 0.00226             | 111           | 113            | 54.0-153         |                      |                       | 1.34     | 20              |
| Naphthalene                 | 0.00200              | 0.00225            | 0.00231             | 112           | 115            | 61.0-137         |                      |                       | 2.63     | 20              |
| Phenanthrene                | 0.00200              | 0.00252            | 0.00253             | 126           | 126            | 62.0-137         |                      |                       | 0.396    | 20              |
| Pyrene                      | 0.00200              | 0.00259            | 0.00268             | 130           | 134            | 60.0-142         |                      |                       | 3.42     | 20              |
| 1-Methylnaphthalene         | 0.00200              | 0.00237            | 0.00242             | 118           | 121            | 66.0-142         |                      |                       | 2.09     | 20              |
| 2-Methylnaphthalene         | 0.00200              | 0.00226            | 0.00228             | 113           | 114            | 62.0-136         |                      |                       | 0.881    | 20              |
| 2-Chloronaphthalene         | 0.00200              | 0.00239            | 0.00248             | 119           | 124            | 64.0-140         |                      |                       | 3.70     | 20              |
| <i>(S) Nitrobenzene-d5</i>  |                      |                    |                     | 129           | 129            | 31.0-160         |                      |                       |          |                 |
| <i>(S) 2-Fluorobiphenyl</i> |                      |                    |                     | 123           | 123            | 48.0-148         |                      |                       |          |                 |
| <i>(S) p-Terphenyl-d14</i>  |                      |                    |                     | 130           | 133            | 37.0-146         |                      |                       |          |                 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

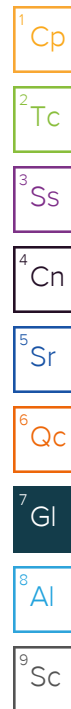
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| MDL                          | Method Detection Limit.  |
| RDL                          | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

| Qualifier | Description   |
|-----------|---|
| B         | The same analyte is found in the associated blank.  |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.                   |
| J1        | Surrogate recovery limits have been exceeded; values are outside upper control limits.                |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits.                |
| J6        | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| V         | The sample concentration is too high to evaluate accurate spike recoveries.                           |



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                               |             |                             |                  |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama                       | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                        | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                       | AZ0612      | New Hampshire               | 2975             |
| Arkansas                      | 88-0469     | New Jersey–NELAP            | TN002            |
| California                    | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 923         | North Dakota                | R-140            |
| Idaho                         | TN00003     | Ohio–VAP                    | CL0069           |
| Illinois                      | 200008      | Oklahoma                    | 9915             |
| Indiana                       | C-TN-01     | Oregon                      | TN200002         |
| Iowa                          | 364         | Pennsylvania                | 68-02979         |
| Kansas                        | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                      | 324         | Utah                        | TN000032021-11   |
| Massachusetts                 | M-TN003     | Vermont                     | VT2006           |
| Michigan                      | 9958        | Virginia                    | 110033           |
| Minnesota                     | 047-999-395 | Washington                  | C847             |
| Mississippi                   | TN00003     | West Virginia               | 233              |
| Missouri                      | 340         | Wisconsin                   | 998093910        |
| Montana                       | CERT0086    | Wyoming                     | A2LA             |
| A2LA – ISO 17025              | 1461.01     | AIHA-LAP,LLC EMLAP          | 100789           |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Company Name/Address: **Stantec - Anchorage, AK**  
 725 E Fireweed Lane  
 Suite 200  
 Anchorage, AK 99503

Billing Information:  
 Accounts Payable  
 725 E Fireweed Lane  
 Suite 200  
 Anchorage, AK 99503

Report to: **Mr. John Marshall**

Email To: **craig.cothron@pacelabs.com**

City/State Collected: **North Pole, AK**

Please Circle: **AKST**  
 PT MT CT ET

Chain of Custody Page 1 of 1

**Pace**  
 PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**  
 12065 Lebanon Rd. Mount Juliet, TN 37122  
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:  
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Project Description: **TNS 101/IFC 203723629**  
**TNS 112/5310**  
**203723642**

Client Project #: **203723642**

Lab Project #: **STAAAKSSA-TNS101**

Phone: **907-266-1108**

Collected by (print): **Rem. Malenfant**

Collected by (signature): *[Signature]*

Immediately Packed on Ice **N** Y **X**

Site/Facility ID #: **5310**

P.O. #

Quote #

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Date Results Needed: **Standard**

No. of Cntrs

| Analysis / Container / Preservative | AK101 40mlAmb HCl | AK102 100ml Amb HCl | NAICP 250mlHDPE-HNO3 | PAHSIMLVID 40mlAmb-NoPres-WT | V8260C 40mlAmb-HCl | V8260C 40mlAmb-HCl-Blk |
|-------------------------------------|-------------------|---------------------|----------------------|------------------------------|--------------------|------------------------|
|                                     | X                 | X                   | X                    | X                            | X                  |                        |
|                                     | X                 | X                   | X                    | X                            | X                  |                        |
|                                     |                   |                     |                      |                              |                    | X                      |
|                                     | X                 | X                   | X                    | X                            | X                  |                        |
|                                     | X                 | X                   | X                    | X                            | X                  |                        |

SDG # **1739790**

**B158**

Acctnum: **STAAAKSSA**

Template: **T253299**

Prelogin: **P1076451**

PM: **034 - Craig Cothron**

PB: **5/17/24 cam**

Shipped Via: **FedEX 2nd Day**

Remarks | Sample # (lab only)

| Sample ID  | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | AK101 40mlAmb HCl | AK102 100ml Amb HCl | NAICP 250mlHDPE-HNO3 | PAHSIMLVID 40mlAmb-NoPres-WT | V8260C 40mlAmb-HCl | V8260C 40mlAmb-HCl-Blk |
|------------|-----------|----------|-------|---------|------|--------------|-------------------|---------------------|----------------------|------------------------------|--------------------|------------------------|
| MW17-2     | G         | GW       | -     | 5/20/24 | 1107 | 11           | X                 | X                   | X                    | X                            | X                  |                        |
| MW17-5     | G         | GW       | -     | 5/20/24 | 1145 | 11           | X                 | X                   | X                    | X                            | X                  |                        |
| TRIP BLANK | -         | GW       | -     | -       | -    | 1            |                   |                     |                      |                              |                    | X                      |
| MW-3       | G         | GW       | -     | 5/20/24 | 1522 | 11           | X                 | X                   | X                    | X                            | X                  |                        |
| DUP        | G         | GW       | -     | 5/20/24 | -    | 11           | X                 | X                   | X                    | X                            | X                  |                        |

\* Matrix: **SS - Soil AIR - Air F - Filter**  
**GW - Groundwater B - Bioassay**  
**WW - WasteWater**  
**DW - Drinking Water**  
**OT - Other**

Remarks: pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via: UPS FedEx Courier

Tracking # **7315 3196 2313**

**Sample Receipt Checklist**

COC Seal Present/Intact: Y **N**

COC Signed/Accurate: Y **N**

Bottles arrive intact: Y **N**

Correct bottles used: Y **N**

Sufficient volume sent: Y **N**

**If Applicable**

VOA Zero Headspace: Y **N**

Preservation Correct/Checked: Y **N**

RAD Screen <0.5 mR/hr: Y **N**

Relinquished by: (Signature) *[Signature]* Date: **5/21/24** Time: **1608**

Received by: (Signature) \_\_\_\_\_ Trip Blank Received: Yes **No**  
 HGL / MeOH TBR

Temp: **EPAB** °C Bottles Received: **17.12** If preservation required by Login: Date/Time **.2**

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

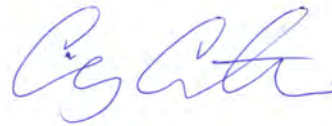
Received for lab by: (Signature) *[Signature]* Date: **5-23-24** Time: **9:00** Hold: \_\_\_\_\_ Condition: **NCF / OK**

## Stantec - Anchorage, AK

Sample Delivery Group: L1746567  
Samples Received: 06/13/2024  
Project Number: TNS 112/SPEEDWAY5310  
Description: Speedway 5310 - North Pole, AK

Report To: Ms. Sydney Souza  
725 E Fireweed Lane  
Suite 200  
Anchorage, AK 99503

Entire Report Reviewed By:

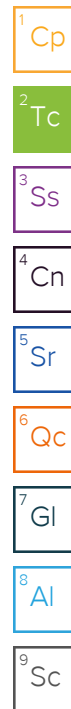


Craig Cothron  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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# SAMPLE SUMMARY

## MW-6 L1746567-01 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 11:20  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:22     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2305589 | 1        | 06/15/24 03:55        | 06/15/24 03:55     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 1        | 06/20/24 18:19        | 06/20/24 18:19     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 02:45     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 03:13     | ALM     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

## MW17-2 L1746567-02 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 11:37  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:24     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2305589 | 1        | 06/15/24 04:22        | 06/15/24 04:22     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 1        | 06/20/24 18:38        | 06/20/24 18:38     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 03:05     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 03:31     | ALM     | Mt. Juliet, TN |

5 Sr

6 Qc

7 Gl

8 Al

## MW-10 L1746567-03 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 11:54  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:25     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2305589 | 1        | 06/15/24 04:49        | 06/15/24 04:49     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 1        | 06/20/24 18:57        | 06/20/24 18:57     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 03:25     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 03:49     | ALM     | Mt. Juliet, TN |

9 Sc

## MW17-5 L1746567-04 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 12:03  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:30     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2305589 | 1        | 06/15/24 05:16        | 06/15/24 05:16     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 1        | 06/20/24 19:16        | 06/20/24 19:16     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 03:46     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 04:07     | ALM     | Mt. Juliet, TN |

## MW-3 L1746567-05 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 12:38  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:32     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2305589 | 20       | 06/15/24 08:40        | 06/15/24 08:40     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 20       | 06/20/24 23:22        | 06/20/24 23:22     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2309572 | 100      | 06/21/24 17:35        | 06/21/24 17:35     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 04:06     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 04:25     | ALM     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## DUPLICATE 1 L1746567-06 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 00:00  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:34     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2305589 | 50       | 06/15/24 09:08        | 06/15/24 09:08     | NCD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 50       | 06/20/24 23:41        | 06/20/24 23:41     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 04:26     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 04:43     | ALM     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## TRIP BLANK L1746567-07 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 00:00  
 Received date/time: 06/13/24 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2308758 | 1        | 06/20/24 17:41        | 06/20/24 17:41     | DWR     | Mt. Juliet, TN |

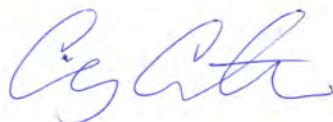
## MW-2 L1746567-08 GW

Collected by: Remi Malenfant  
 Collected date/time: 06/11/24 12:46  
 Received date/time: 06/13/24 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                | WG2309380 | 1        | 06/21/24 10:24        | 06/21/24 13:35     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101             | WG2306122 | 1        | 06/16/24 20:08        | 06/16/24 20:08     | CDD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C          | WG2308758 | 1        | 06/20/24 19:35        | 06/20/24 19:35     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102        | WG2309332 | 1        | 06/24/24 06:51        | 06/25/24 04:46     | MAA     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2306381 | 1        | 06/17/24 16:08        | 06/18/24 05:01     | ALM     | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



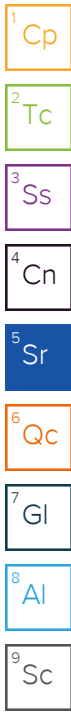
Craig Cothron  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 7.46   |           | 0.504 | 3.00 | 1        | 06/21/2024 13:22 | <a href="#">WG2309380</a> |



Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | U      |           | 0.0287 | 0.100    | 1        | 06/15/2024 03:55 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.9   |           |        | 50.0-150 |          | 06/15/2024 03:55 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 103    |           |        | 79.0-125 |          | 06/15/2024 03:55 | <a href="#">WG2305589</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l   |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | U      |           | 0.0000941 | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | U      |           | 0.000157  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | U      |           | 0.000125  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U      |           | 0.000127  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| Ethylbenzene              | U      |           | 0.000137  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | U      |           | 0.000105  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| Naphthalene               | U      | C3        | 0.00100   | 0.00500  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| Toluene                   | U      |           | 0.000278  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | U      |           | 0.000322  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | U      |           | 0.000104  | 0.00100  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| Total Xylenes             | U      |           | 0.000174  | 0.00300  | 1        | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 101    |           |           | 80.0-120 |          | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 97.0   |           |           | 77.0-126 |          | 06/20/2024 18:19 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 114    |           |           | 70.0-130 |          | 06/20/2024 18:19 | <a href="#">WG2308758</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | U      |           | 0.170 | 0.800    | 1        | 06/25/2024 02:45 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 95.3   |           |       | 50.0-150 |          | 06/25/2024 02:45 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|--------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l   |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U      |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Acenaphthene           | U      |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U      |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U      |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | U      |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U      |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | U      |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U      |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Chrysene               | U      |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U      |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Fluoranthene           | U      |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Fluorene               | U      |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U      |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Naphthalene            | U      |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Phenanthrene           | U      |           | 0.0000180 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| Pyrene                 | U      |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene    | U      |           | 0.0000687 | 0.000250  | 1        | 06/18/2024 03:13 | <a href="#">WG2306381</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                     | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 2-Methylnaphthalene         | U              |           | 0.0000674   | 0.000250    | 1        | 06/18/2024 03:13        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene         | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 03:13        | <a href="#">WG2306381</a> |
| <i>(S)</i> Nitrobenzene-d5  | 80.0           |           |             | 31.0-160    |          | 06/18/2024 03:13        | <a href="#">WG2306381</a> |
| <i>(S)</i> 2-Fluorobiphenyl | 105            |           |             | 48.0-148    |          | 06/18/2024 03:13        | <a href="#">WG2306381</a> |
| <i>(S)</i> p-Terphenyl-d14  | 94.2           |           |             | 37.0-146    |          | 06/18/2024 03:13        | <a href="#">WG2306381</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 809    |           | 0.504 | 3.00 | 1        | 06/21/2024 13:24 | <a href="#">WG2309380</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 0.337  |           | 0.0287 | 0.100    | 1        | 06/15/2024 04:22 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.8   |           |        | 50.0-150 |          | 06/15/2024 04:22 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 97.6   |           |        | 79.0-125 |          | 06/15/2024 04:22 | <a href="#">WG2305589</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result   | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l     |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | 0.000864 | J         | 0.0000941 | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | 0.000213 | J         | 0.000157  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | 0.000434 | J         | 0.000125  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U        |           | 0.000127  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| Ethylbenzene              | 0.00249  |           | 0.000137  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | 0.000907 | J         | 0.000105  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| Naphthalene               | U        | C3        | 0.00100   | 0.00500  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| Toluene                   | 0.000298 | J         | 0.000278  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | U        |           | 0.000322  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | U        |           | 0.000104  | 0.00100  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| Total Xylenes             | 0.000648 | J         | 0.000174  | 0.00300  | 1        | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 99.6     |           |           | 80.0-120 |          | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 98.7     |           |           | 77.0-126 |          | 06/20/2024 18:38 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 114      |           |           | 70.0-130 |          | 06/20/2024 18:38 | <a href="#">WG2308758</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 0.725  | J         | 0.170 | 0.800    | 1        | 06/25/2024 03:05 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 90.9   |           |       | 50.0-150 |          | 06/25/2024 03:05 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U         |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Acenaphthene           | U         |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U         |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | U         |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U         |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | U         |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U         |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Chrysene               | U         |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U         |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Fluoranthene           | U         |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Fluorene               | 0.000190  |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U         |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Naphthalene            | U         |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Phenanthrene           | 0.0000252 | J         | 0.0000180 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| Pyrene                 | U         |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene    | 0.00165   |           | 0.0000687 | 0.000250  | 1        | 06/18/2024 03:31 | <a href="#">WG2306381</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                     | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 2-Methylnaphthalene         | 0.000365       |           | 0.0000674   | 0.000250    | 1        | 06/18/2024 03:31        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene         | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 03:31        | <a href="#">WG2306381</a> |
| <i>(S)</i> Nitrobenzene-d5  | 80.0           |           |             | 31.0-160    |          | 06/18/2024 03:31        | <a href="#">WG2306381</a> |
| <i>(S)</i> 2-Fluorobiphenyl | 96.3           |           |             | 48.0-148    |          | 06/18/2024 03:31        | <a href="#">WG2306381</a> |
| <i>(S)</i> p-Terphenyl-d14  | 81.6           |           |             | 37.0-146    |          | 06/18/2024 03:31        | <a href="#">WG2306381</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 9.30   |           | 0.504 | 3.00 | 1        | 06/21/2024 13:25 | <a href="#">WG2309380</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | U      |           | 0.0287 | 0.100    | 1        | 06/15/2024 04:49 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.5   |           |        | 50.0-150 |          | 06/15/2024 04:49 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 103    |           |        | 79.0-125 |          | 06/15/2024 04:49 | <a href="#">WG2305589</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l   |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | U      |           | 0.0000941 | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | U      |           | 0.000157  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | U      |           | 0.000125  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U      |           | 0.000127  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| Ethylbenzene              | U      |           | 0.000137  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | U      |           | 0.000105  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| Naphthalene               | U      | C3        | 0.00100   | 0.00500  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| Toluene                   | U      |           | 0.000278  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | U      |           | 0.000322  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | U      |           | 0.000104  | 0.00100  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| Total Xylenes             | U      |           | 0.000174  | 0.00300  | 1        | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 97.9   |           |           | 80.0-120 |          | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 98.8   |           |           | 77.0-126 |          | 06/20/2024 18:57 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 116    |           |           | 70.0-130 |          | 06/20/2024 18:57 | <a href="#">WG2308758</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | U      |           | 0.170 | 0.800    | 1        | 06/25/2024 03:25 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 60.7   |           |       | 50.0-150 |          | 06/25/2024 03:25 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|--------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l   |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U      |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Acenaphthene           | U      |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U      |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U      |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | U      |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U      |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | U      |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U      |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Chrysene               | U      |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U      |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Fluoranthene           | U      |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Fluorene               | U      |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U      |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Naphthalene            | U      |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Phenanthrene           | U      |           | 0.0000180 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| Pyrene                 | U      |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene    | U      |           | 0.0000687 | 0.000250  | 1        | 06/18/2024 03:49 | <a href="#">WG2306381</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte              | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 2-Methylnaphthalene  | U              |           | 0.0000674   | 0.000250    | 1        | 06/18/2024 03:49        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene  | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 03:49        | <a href="#">WG2306381</a> |
| (S) Nitrobenzene-d5  | 77.9           |           |             | 31.0-160    |          | 06/18/2024 03:49        | <a href="#">WG2306381</a> |
| (S) 2-Fluorobiphenyl | 101            |           |             | 48.0-148    |          | 06/18/2024 03:49        | <a href="#">WG2306381</a> |
| (S) p-Terphenyl-d14  | 87.4           |           |             | 37.0-146    |          | 06/18/2024 03:49        | <a href="#">WG2306381</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 265    |           | 0.504 | 3.00 | 1        | 06/21/2024 13:30 | <a href="#">WG2309380</a> |

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 0.187  |           | 0.0287 | 0.100    | 1        | 06/15/2024 05:16 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 87.0   |           |        | 50.0-150 |          | 06/15/2024 05:16 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 103    |           |        | 79.0-125 |          | 06/15/2024 05:16 | <a href="#">WG2305589</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result   | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l     |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | 0.00308  |           | 0.0000941 | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | U        |           | 0.000157  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | U        |           | 0.000125  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U        |           | 0.000127  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| Ethylbenzene              | 0.000419 | J         | 0.000137  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | 0.000106 | J         | 0.000105  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| Naphthalene               | U        | C3        | 0.00100   | 0.00500  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| Toluene                   | 0.000399 | J         | 0.000278  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | U        |           | 0.000322  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | U        |           | 0.000104  | 0.00100  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| Total Xylenes             | U        |           | 0.000174  | 0.00300  | 1        | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 93.0     |           |           | 80.0-120 |          | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 99.6     |           |           | 77.0-126 |          | 06/20/2024 19:16 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 119      |           |           | 70.0-130 |          | 06/20/2024 19:16 | <a href="#">WG2308758</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | U      |           | 0.170 | 0.800    | 1        | 06/25/2024 03:46 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 93.6   |           |       | 50.0-150 |          | 06/25/2024 03:46 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result   | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l     |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U        |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Acenaphthene           | U        |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U        |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U        |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | U        |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U        |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | U        |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U        |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Chrysene               | U        |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U        |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Fluoranthene           | U        |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Fluorene               | U        |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U        |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Naphthalene            | 0.000273 |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Phenanthrene           | U        |           | 0.0000180 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| Pyrene                 | U        |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene    | 0.000107 | J         | 0.0000687 | 0.000250  | 1        | 06/18/2024 04:07 | <a href="#">WG2306381</a> |



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte              | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 2-Methylnaphthalene  | 0.000117       | J         | 0.0000674   | 0.000250    | 1        | 06/18/2024 04:07        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene  | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 04:07        | <a href="#">WG2306381</a> |
| (S) Nitrobenzene-d5  | 81.6           |           |             | 31.0-160    |          | 06/18/2024 04:07        | <a href="#">WG2306381</a> |
| (S) 2-Fluorobiphenyl | 104            |           |             | 48.0-148    |          | 06/18/2024 04:07        | <a href="#">WG2306381</a> |
| (S) p-Terphenyl-d14  | 88.9           |           |             | 37.0-146    |          | 06/18/2024 04:07        | <a href="#">WG2306381</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 48.9   |           | 0.504 | 3.00 | 1        | 06/21/2024 13:32 | <a href="#">WG2309380</a> |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 14.9   |           | 0.574 | 2.00     | 20       | 06/15/2024 08:40 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 86.9   |           |       | 50.0-150 |          | 06/15/2024 08:40 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 102    |           |       | 79.0-125 |          | 06/15/2024 08:40 | <a href="#">WG2305589</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result  | Qualifier | MDL     | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|---------|-----------|---------|----------|----------|------------------|---------------------------|
|                           | mg/l    |           | mg/l    | mg/l     |          | date / time      |                           |
| Benzene                   | 0.0134  | J         | 0.00188 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | U       |           | 0.00314 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | 0.00834 | J         | 0.00250 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U       |           | 0.00254 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| Ethylbenzene              | 0.554   |           | 0.00274 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | 0.0851  |           | 0.00210 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| Naphthalene               | U       | C3        | 0.0200  | 0.100    | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| Toluene                   | 0.176   |           | 0.00556 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | 1.88    |           | 0.00644 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | 0.571   |           | 0.00208 | 0.0200   | 20       | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| Total Xylenes             | 5.61    |           | 0.0174  | 0.300    | 100      | 06/21/2024 17:35 | <a href="#">WG2309572</a> |
| (S) Toluene-d8            | 99.4    |           |         | 80.0-120 |          | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 91.1    |           |         | 80.0-120 |          | 06/21/2024 17:35 | <a href="#">WG2309572</a> |
| (S) 4-Bromofluorobenzene  | 105     |           |         | 77.0-126 |          | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 101     |           |         | 77.0-126 |          | 06/21/2024 17:35 | <a href="#">WG2309572</a> |
| (S) 1,2-Dichloroethane-d4 | 117     |           |         | 70.0-130 |          | 06/20/2024 23:22 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 132     | J1        |         | 70.0-130 |          | 06/21/2024 17:35 | <a href="#">WG2309572</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 1.75   |           | 0.170 | 0.800    | 1        | 06/25/2024 04:06 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 78.7   |           |       | 50.0-150 |          | 06/25/2024 04:06 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | 0.0000198 | J         | 0.0000190 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Acenaphthene           | 0.000102  |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U         |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | U         |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U         |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | U         |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U         |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Chrysene               | U         |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U         |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Fluoranthene           | U         |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Fluorene               | 0.000211  |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U         |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |
| Naphthalene            | 0.0239    |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 04:25 | <a href="#">WG2306381</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte              | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Phenanthrene         | 0.0000722      |           | 0.0000180   | 0.0000500   | 1        | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| Pyrene               | U              |           | 0.0000169   | 0.0000500   | 1        | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene  | 0.00204        |           | 0.0000687   | 0.000250    | 1        | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| 2-Methylnaphthalene  | 0.00204        |           | 0.0000674   | 0.000250    | 1        | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene  | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| (S) Nitrobenzene-d5  | 90.0           |           |             | 31.0-160    |          | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| (S) 2-Fluorobiphenyl | 98.4           |           |             | 48.0-148    |          | 06/18/2024 04:25        | <a href="#">WG2306381</a> |
| (S) p-Terphenyl-d14  | 86.8           |           |             | 37.0-146    |          | 06/18/2024 04:25        | <a href="#">WG2306381</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 48.7   |           | 0.504 | 3.00 | 1        | 06/21/2024 13:34 | <a href="#">WG2309380</a> |

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 13.5   |           | 1.44 | 5.00     | 50       | 06/15/2024 09:08 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.3   |           |      | 50.0-150 |          | 06/15/2024 09:08 | <a href="#">WG2305589</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 103    |           |      | 79.0-125 |          | 06/15/2024 09:08 | <a href="#">WG2305589</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result  | Qualifier | MDL     | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|---------|-----------|---------|----------|----------|------------------|---------------------------|
|                           | mg/l    |           | mg/l    | mg/l     |          | date / time      |                           |
| Benzene                   | 0.0130  | J         | 0.00471 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | 0.0859  |           | 0.00785 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | 0.00965 | J         | 0.00625 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | 0.253   |           | 0.00635 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| Ethylbenzene              | 0.509   |           | 0.00685 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | 0.0785  |           | 0.00525 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| Naphthalene               | U       | C3        | 0.0500  | 0.250    | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| Toluene                   | 0.179   |           | 0.0139  | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | 1.83    |           | 0.0161  | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | 0.549   |           | 0.00520 | 0.0500   | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| Total Xylenes             | 5.51    |           | 0.00870 | 0.150    | 50       | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 99.8    |           |         | 80.0-120 |          | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 99.1    |           |         | 77.0-126 |          | 06/20/2024 23:41 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 113     |           |         | 70.0-130 |          | 06/20/2024 23:41 | <a href="#">WG2308758</a> |

Sample Narrative:

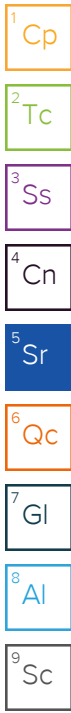
L1746567-06 WG2308758: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 2.24   |           | 0.170 | 0.800    | 1        | 06/25/2024 04:26 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 102    |           |       | 50.0-150 |          | 06/25/2024 04:26 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | 0.0000213 | J         | 0.0000190 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Acenaphthene           | 0.000112  |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U         |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | U         |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U         |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | U         |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U         |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Chrysene               | U         |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U         |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Fluoranthene           | U         |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Fluorene               | 0.000237  |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U         |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |
| Naphthalene            | 0.0248    |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 04:43 | <a href="#">WG2306381</a> |



DUPLICATE 1

SAMPLE RESULTS - 06

Collected date/time: 06/11/24 00:00

L1746567

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte              | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Phenanthrene         | 0.0000839      |           | 0.0000180   | 0.0000500   | 1        | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| Pyrene               | 0.0000210      | J         | 0.0000169   | 0.0000500   | 1        | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene  | 0.00217        |           | 0.0000687   | 0.000250    | 1        | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| 2-Methylnaphthalene  | 0.00221        |           | 0.0000674   | 0.000250    | 1        | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene  | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| (S) Nitrobenzene-d5  | 86.8           |           |             | 31.0-160    |          | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| (S) 2-Fluorobiphenyl | 96.8           |           |             | 48.0-148    |          | 06/18/2024 04:43        | <a href="#">WG2306381</a> |
| (S) p-Terphenyl-d14  | 83.7           |           |             | 37.0-146    |          | 06/18/2024 04:43        | <a href="#">WG2306381</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                   | U              |           | 0.0000941   | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| n-Butylbenzene            | U              |           | 0.000157    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | U              |           | 0.000125    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U              |           | 0.000127    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| Ethylbenzene              | U              |           | 0.000137    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| Isopropylbenzene          | U              |           | 0.000105    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| Naphthalene               | U              | <u>C3</u> | 0.00100     | 0.00500     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| Toluene                   | U              |           | 0.000278    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | U              |           | 0.000322    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | U              |           | 0.000104    | 0.00100     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| Total Xylenes             | U              |           | 0.000174    | 0.00300     | 1        | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 99.5           |           |             | 77.0-126    |          | 06/20/2024 17:41        | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 116            |           |             | 70.0-130    |          | 06/20/2024 17:41        | <a href="#">WG2308758</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | mg/l   |           | mg/l  | mg/l |          | date / time      |                           |
| Sodium  | 10.6   |           | 0.504 | 3.00 | 1        | 06/21/2024 13:35 | <a href="#">WG2309380</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method AK101

| Analyte                         | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                 | mg/l   |           | mg/l   | mg/l     |          | date / time      |                           |
| TPHGAK C6 to C10                | 0.0914 | J         | 0.0287 | 0.100    | 1        | 06/16/2024 20:08 | <a href="#">WG2306122</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 86.4   |           |        | 50.0-150 |          | 06/16/2024 20:08 | <a href="#">WG2306122</a> |
| (S) a,a,a-Trifluorotoluene(PID) | 103    |           |        | 79.0-125 |          | 06/16/2024 20:08 | <a href="#">WG2306122</a> |

Volatile Organic Compounds (GC/MS) by Method 8260C/8260D

| Analyte                   | Result   | Qualifier | MDL       | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|---------------------------|
|                           | mg/l     |           | mg/l      | mg/l     |          | date / time      |                           |
| Benzene                   | 0.000439 | J         | 0.0000941 | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| n-Butylbenzene            | 0.00204  |           | 0.000157  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| sec-Butylbenzene          | 0.000695 | J         | 0.000125  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| tert-Butylbenzene         | U        |           | 0.000127  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| Ethylbenzene              | 0.00353  |           | 0.000137  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| Isopropylbenzene          | 0.00176  |           | 0.000105  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| Naphthalene               | U        | C3        | 0.00100   | 0.00500  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| Toluene                   | U        |           | 0.000278  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| 1,2,4-Trimethylbenzene    | 0.00223  |           | 0.000322  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| 1,3,5-Trimethylbenzene    | 0.00410  |           | 0.000104  | 0.00100  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| Total Xylenes             | 0.00365  |           | 0.000174  | 0.00300  | 1        | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| (S) Toluene-d8            | 102      |           |           | 80.0-120 |          | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| (S) 4-Bromofluorobenzene  | 101      |           |           | 77.0-126 |          | 06/20/2024 19:35 | <a href="#">WG2308758</a> |
| (S) 1,2-Dichloroethane-d4 | 118      |           |           | 70.0-130 |          | 06/20/2024 19:35 | <a href="#">WG2308758</a> |

Semi-Volatile Organic Compounds (GC) by Method AK102

| Analyte           | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|-------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                   | mg/l   |           | mg/l  | mg/l     |          | date / time      |                           |
| AK102 DRO C10-C25 | 0.334  | J         | 0.170 | 0.800    | 1        | 06/25/2024 04:46 | <a href="#">WG2309332</a> |
| (S) o-Terphenyl   | 88.5   |           |       | 50.0-150 |          | 06/25/2024 04:46 | <a href="#">WG2309332</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                | Result    | Qualifier | MDL       | RDL       | Dilution | Analysis         | Batch                     |
|------------------------|-----------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                        | mg/l      |           | mg/l      | mg/l      |          | date / time      |                           |
| Anthracene             | U         |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Acenaphthene           | U         |           | 0.0000190 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Acenaphthylene         | U         |           | 0.0000171 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Benzo(a)anthracene     | U         |           | 0.0000203 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Benzo(a)pyrene         | 0.0000202 | J         | 0.0000184 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Benzo(b)fluoranthene   | U         |           | 0.0000168 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Benzo(g,h,i)perylene   | 0.0000881 |           | 0.0000184 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Benzo(k)fluoranthene   | U         |           | 0.0000202 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Chrysene               | U         |           | 0.0000179 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Dibenz(a,h)anthracene  | U         |           | 0.0000160 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Fluoranthene           | U         |           | 0.0000270 | 0.000100  | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Fluorene               | U         |           | 0.0000169 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Indeno(1,2,3-cd)pyrene | U         |           | 0.0000158 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Naphthalene            | U         |           | 0.0000917 | 0.000250  | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Phenanthrene           | U         |           | 0.0000180 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| Pyrene                 | 0.0000286 | J         | 0.0000169 | 0.0000500 | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |
| 1-Methylnaphthalene    | U         |           | 0.0000687 | 0.000250  | 1        | 06/18/2024 05:01 | <a href="#">WG2306381</a> |

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte                     | Result<br>mg/l | Qualifier | MDL<br>mg/l | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 2-Methylnaphthalene         | U              |           | 0.0000674   | 0.000250    | 1        | 06/18/2024 05:01        | <a href="#">WG2306381</a> |
| 2-Chloronaphthalene         | U              |           | 0.0000682   | 0.000250    | 1        | 06/18/2024 05:01        | <a href="#">WG2306381</a> |
| <i>(S)</i> Nitrobenzene-d5  | 80.0           |           |             | 31.0-160    |          | 06/18/2024 05:01        | <a href="#">WG2306381</a> |
| <i>(S)</i> 2-Fluorobiphenyl | 107            |           |             | 48.0-148    |          | 06/18/2024 05:01        | <a href="#">WG2306381</a> |
| <i>(S)</i> p-Terphenyl-d14  | 84.2           |           |             | 37.0-146    |          | 06/18/2024 05:01        | <a href="#">WG2306381</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4084880-1 06/21/24 13:10

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Sodium  | U         |              | 0.504  | 3.00   |

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4084880-2 06/21/24 13:12

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Sodium  | 10.0         | 9.89       | 98.9     | 80.0-120    |               |

4 Cn

5 Sr

L1745516-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1745516-01 06/21/24 13:14 • (MS) R4084880-4 06/21/24 13:17 • (MSD) R4084880-5 06/21/24 13:19

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Sodium  | 10.0         | 65.2            | 72.7      | 73.3       | 74.4    | 80.7     | 1        | 75.0-125    | V            |               | 0.868 | 20         |

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R4083488-3 06/14/24 22:03

| Analyte                            | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| TPHGAK C6 to C10                   | U                 |              | 0.0287         | 0.100          |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 89.5              |              |                | 60.0-120       |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 103               |              |                | 79.0-125       |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4083488-1 06/14/24 15:38 • (LCSD) R4083488-2 06/14/24 16:05

| Analyte                            | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPHGAK C6 to C10                   | 5.00                 | 4.85               | 4.59                | 97.0          | 91.8           | 60.0-120         |               |                | 5.51     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 90.4          | 92.7           | 60.0-120         |               |                |          |                 |
| (S)<br>a,a,a-Trifluorotoluene(PID) |                      |                    |                     | 114           | 113            | 79.0-125         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4082918-3 06/16/24 12:48

| Analyte                            | MB Result | MB Qualifier | MB MDL | MB RDL   |
|------------------------------------|-----------|--------------|--------|----------|
|                                    | mg/l      |              | mg/l   | mg/l     |
| TPHGAK C6 to C10                   | U         |              | 0.0287 | 0.100    |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 89.4      |              |        | 60.0-120 |
| (S)<br>a,a,a-Trifluorotoluene(PID) | 103       |              |        | 79.0-125 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4082918-1 06/16/24 10:32 • (LCSD) R4082918-2 06/16/24 10:59

| Analyte                            | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|------------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                    | mg/l         | mg/l       | mg/l        | %        | %         | %           |               |                | %     | %          |
| TPHGAK C6 to C10                   | 5.00         | 5.41       | 5.40        | 108      | 108       | 60.0-120    |               |                | 0.185 | 20         |
| (S)<br>a,a,a-Trifluorotoluene(FID) |              |            |             | 95.2     | 93.6      | 60.0-120    |               |                |       |            |
| (S)<br>a,a,a-Trifluorotoluene(PID) |              |            |             | 116      | 116       | 79.0-125    |               |                |       |            |

L1747327-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1747327-01 06/16/24 15:19 • (MS) R4082918-4 06/16/24 22:23 • (MSD) R4082918-5 06/16/24 22:50

| Analyte                            | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|------------------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
|                                    | mg/l         | mg/l            | mg/l      | mg/l       | %       | %        |          | %           |              |               | %    | %          |
| TPHGAK C6 to C10                   | 5.00         | 0.766           | 7.08      | 6.88       | 126     | 122      | 1        | 70.0-130    |              |               | 2.87 | 20         |
| (S)<br>a,a,a-Trifluorotoluene(FID) |              |                 |           |            | 97.8    | 92.2     |          | 50.0-150    |              |               |      |            |
| (S)<br>a,a,a-Trifluorotoluene(PID) |              |                 |           |            | 110     | 111      |          | 79.0-125    |              |               |      |            |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4084678-3 06/20/24 17:22

| Analyte                   | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene                   | U                 |              | 0.000941       | 0.00100        |
| n-Butylbenzene            | U                 |              | 0.000157       | 0.00100        |
| sec-Butylbenzene          | U                 |              | 0.000125       | 0.00100        |
| tert-Butylbenzene         | U                 |              | 0.000127       | 0.00100        |
| Ethylbenzene              | U                 |              | 0.000137       | 0.00100        |
| Isopropylbenzene          | U                 |              | 0.000105       | 0.00100        |
| Naphthalene               | U                 |              | 0.00100        | 0.00500        |
| Toluene                   | U                 |              | 0.000278       | 0.00100        |
| 1,2,4-Trimethylbenzene    | U                 |              | 0.000322       | 0.00100        |
| 1,3,5-Trimethylbenzene    | U                 |              | 0.000104       | 0.00100        |
| Total Xylenes             | U                 |              | 0.000174       | 0.00300        |
| (S) Toluene-d8            | 101               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 97.4              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 112               |              |                | 70.0-130       |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4084678-1 06/20/24 16:25 • (LCSD) R4084678-2 06/20/24 16:44

| Analyte                   | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.00500              | 0.00445            | 0.00446             | 89.0          | 89.2           | 70.0-123         |               |                | 0.224    | 20              |
| n-Butylbenzene            | 0.00500              | 0.00489            | 0.00522             | 97.8          | 104            | 73.0-125         |               |                | 6.53     | 20              |
| sec-Butylbenzene          | 0.00500              | 0.00587            | 0.00595             | 117           | 119            | 75.0-125         |               |                | 1.35     | 20              |
| tert-Butylbenzene         | 0.00500              | 0.00564            | 0.00573             | 113           | 115            | 76.0-124         |               |                | 1.58     | 20              |
| Ethylbenzene              | 0.00500              | 0.00486            | 0.00470             | 97.2          | 94.0           | 79.0-123         |               |                | 3.35     | 20              |
| Isopropylbenzene          | 0.00500              | 0.00523            | 0.00521             | 105           | 104            | 76.0-127         |               |                | 0.383    | 20              |
| Naphthalene               | 0.00500              | 0.00308            | 0.00330             | 61.6          | 66.0           | 54.0-135         | J             | J              | 6.90     | 20              |
| Toluene                   | 0.00500              | 0.00475            | 0.00463             | 95.0          | 92.6           | 79.0-120         |               |                | 2.56     | 20              |
| 1,2,4-Trimethylbenzene    | 0.00500              | 0.00541            | 0.00529             | 108           | 106            | 76.0-121         |               |                | 2.24     | 20              |
| 1,3,5-Trimethylbenzene    | 0.00500              | 0.00576            | 0.00557             | 115           | 111            | 76.0-122         |               |                | 3.35     | 20              |
| Total Xylenes             | 0.0150               | 0.0149             | 0.0142              | 99.3          | 94.7           | 79.0-123         |               |                | 4.81     | 20              |
| (S) Toluene-d8            |                      |                    |                     | 99.6          | 99.9           | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                      |                    |                     | 101           | 101            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                      |                    |                     | 110           | 112            | 70.0-130         |               |                |          |                 |

Method Blank (MB)

(MB) R4084829-3 06/21/24 10:42

| Analyte                   | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Total Xylenes             | U                 |              | 0.000174       | 0.00300        |
| (S) Toluene-d8            | 98.1              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 96.7              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 129               |              |                | 70.0-130       |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4084829-1 06/21/24 09:16 • (LCSD) R4084829-4 06/21/24 14:18

| Analyte                   | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Total Xylenes             | 0.0150               | 0.0139             | 0.0141              | 92.7          | 94.0           | 79.0-123         |               |                | 1.43     | 20              |
| (S) Toluene-d8            |                      |                    |                     | 94.0          | 87.3           | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                      |                    |                     | 99.4          | 100            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                      |                    |                     | 129           | 130            | 70.0-130         |               |                |          |                 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4086231-1 06/25/24 00:24

| Analyte                | MB Result | MB Qualifier | MB MDL | MB RDL   |
|------------------------|-----------|--------------|--------|----------|
|                        | mg/l      |              | mg/l   | mg/l     |
| AK102 DRO C10-C25      | U         |              | 0.170  | 0.800    |
| <i>(S) o-Terphenyl</i> | 113       |              |        | 60.0-120 |

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4086231-2 06/25/24 00:44 • (LCSD) R4086231-3 06/25/24 01:04

| Analyte                | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                        | mg/l         | mg/l       | mg/l        | %        | %         | %           |               |                | %    | %          |
| AK102 DRO C10-C25      | 6.00         | 4.81       | 4.87        | 80.2     | 81.2      | 75.0-125    |               |                | 1.24 | 20         |
| <i>(S) o-Terphenyl</i> |              |            |             | 101      | 97.4      | 60.0-120    |               |                |      |            |

4 Cn

5 Sr

6 Qc

L1747940-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1747940-02 06/25/24 07:02 • (MS) R4086231-4 06/25/24 07:22 • (MSD) R4086231-5 06/25/24 07:42

| Analyte                | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
|                        | mg/l         | mg/l            | mg/l      | mg/l       | %       | %        |          | %           |              |               | %    | %          |
| AK102 DRO C10-C25      | 5.72         | 11.3            | 17.3      | 15.2       | 105     | 68.2     | 1        | 75.0-125    |              | J6            | 12.9 | 20         |
| <i>(S) o-Terphenyl</i> |              |                 |           |            | 95.0    | 94.4     |          | 50.0-150    |              |               |      |            |

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4083346-3 06/18/24 01:26

| Analyte                | MB Result<br>mg/l | MB Qualifier | MB MDL<br>mg/l | MB RDL<br>mg/l |
|------------------------|-------------------|--------------|----------------|----------------|
| Anthracene             | U                 |              | 0.0000190      | 0.0000500      |
| Acenaphthene           | U                 |              | 0.0000190      | 0.0000500      |
| Acenaphthylene         | U                 |              | 0.0000171      | 0.0000500      |
| Benzo(a)anthracene     | U                 |              | 0.0000203      | 0.0000500      |
| Benzo(a)pyrene         | U                 |              | 0.0000184      | 0.0000500      |
| Benzo(b)fluoranthene   | U                 |              | 0.0000168      | 0.0000500      |
| Benzo(g,h,i)perylene   | U                 |              | 0.0000184      | 0.0000500      |
| Benzo(k)fluoranthene   | U                 |              | 0.0000202      | 0.0000500      |
| Chrysene               | U                 |              | 0.0000179      | 0.0000500      |
| Dibenz(a,h)anthracene  | U                 |              | 0.0000160      | 0.0000500      |
| Fluoranthene           | U                 |              | 0.0000270      | 0.000100       |
| Fluorene               | U                 |              | 0.0000169      | 0.0000500      |
| Indeno(1,2,3-cd)pyrene | U                 |              | 0.0000158      | 0.0000500      |
| Naphthalene            | U                 |              | 0.0000917      | 0.000250       |
| Phenanthrene           | U                 |              | 0.0000180      | 0.0000500      |
| Pyrene                 | U                 |              | 0.0000169      | 0.0000500      |
| 1-Methylnaphthalene    | U                 |              | 0.0000687      | 0.000250       |
| 2-Methylnaphthalene    | U                 |              | 0.0000674      | 0.000250       |
| 2-Chloronaphthalene    | U                 |              | 0.0000682      | 0.000250       |
| (S) Nitrobenzene-d5    | 77.5              |              |                | 31.0-160       |
| (S) 2-Fluorobiphenyl   | 103               |              |                | 48.0-148       |
| (S) p-Terphenyl-d14    | 95.5              |              |                | 37.0-146       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4083346-1 06/18/24 00:50 • (LCSD) R4083346-2 06/18/24 01:08

| Analyte               | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Anthracene            | 0.00200              | 0.00218            | 0.00196             | 109           | 98.0           | 67.0-150         |               |                | 10.6     | 20              |
| Acenaphthene          | 0.00200              | 0.00212            | 0.00190             | 106           | 95.0           | 65.0-138         |               |                | 10.9     | 20              |
| Acenaphthylene        | 0.00200              | 0.00231            | 0.00207             | 115           | 104            | 66.0-140         |               |                | 11.0     | 20              |
| Benzo(a)anthracene    | 0.00200              | 0.00197            | 0.00180             | 98.5          | 90.0           | 61.0-140         |               |                | 9.02     | 20              |
| Benzo(a)pyrene        | 0.00200              | 0.00180            | 0.00163             | 90.0          | 81.5           | 60.0-143         |               |                | 9.91     | 20              |
| Benzo(b)fluoranthene  | 0.00200              | 0.00188            | 0.00173             | 94.0          | 86.5           | 58.0-141         |               |                | 8.31     | 20              |
| Benzo(g,h,i)perylene  | 0.00200              | 0.00176            | 0.00163             | 88.0          | 81.5           | 52.0-153         |               |                | 7.67     | 20              |
| Benzo(k)fluoranthene  | 0.00200              | 0.00181            | 0.00161             | 90.5          | 80.5           | 58.0-148         |               |                | 11.7     | 20              |
| Chrysene              | 0.00200              | 0.00205            | 0.00184             | 103           | 92.0           | 64.0-144         |               |                | 10.8     | 20              |
| Dibenz(a,h)anthracene | 0.00200              | 0.00174            | 0.00156             | 87.0          | 78.0           | 52.0-155         |               |                | 10.9     | 20              |
| Fluoranthene          | 0.00200              | 0.00222            | 0.00202             | 111           | 101            | 69.0-153         |               |                | 9.43     | 20              |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4083346-1 06/18/24 00:50 • (LCSD) R4083346-2 06/18/24 01:08

| Analyte                     | Spike Amount<br>mg/l | LCS Result<br>mg/l | LCSD Result<br>mg/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Fluorene                    | 0.00200              | 0.00238            | 0.00211             | 119           | 105            | 64.0-136         |                      |                       | 12.0     | 20              |
| Indeno(1,2,3-cd)pyrene      | 0.00200              | 0.00167            | 0.00146             | 83.5          | 73.0           | 54.0-153         |                      |                       | 13.4     | 20              |
| Naphthalene                 | 0.00200              | 0.00217            | 0.00195             | 108           | 97.5           | 61.0-137         |                      |                       | 10.7     | 20              |
| Phenanthrene                | 0.00200              | 0.00221            | 0.00201             | 111           | 100            | 62.0-137         |                      |                       | 9.48     | 20              |
| Pyrene                      | 0.00200              | 0.00218            | 0.00198             | 109           | 99.0           | 60.0-142         |                      |                       | 9.62     | 20              |
| 1-Methylnaphthalene         | 0.00200              | 0.00218            | 0.00195             | 109           | 97.5           | 66.0-142         |                      |                       | 11.1     | 20              |
| 2-Methylnaphthalene         | 0.00200              | 0.00218            | 0.00196             | 109           | 98.0           | 62.0-136         |                      |                       | 10.6     | 20              |
| 2-Chloronaphthalene         | 0.00200              | 0.00234            | 0.00207             | 117           | 104            | 64.0-140         |                      |                       | 12.2     | 20              |
| <i>(S) Nitrobenzene-d5</i>  |                      |                    |                     | 87.0          | 76.5           | 31.0-160         |                      |                       |          |                 |
| <i>(S) 2-Fluorobiphenyl</i> |                      |                    |                     | 117           | 104            | 48.0-148         |                      |                       |          |                 |
| <i>(S) p-Terphenyl-d14</i>  |                      |                    |                     | 92.0          | 84.0           | 37.0-146         |                      |                       |          |                 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

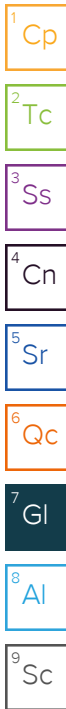
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| MDL                          | Method Detection Limit.  |
| RDL                          | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

| Qualifier | Description   |
|-----------|---|
| C3        | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable. |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.   |
| J1        | Surrogate recovery limits have been exceeded; values are outside upper control limits.  |
| J6        | The sample matrix interfered with the ability to make any accurate determination; spike value is low.   |
| V         | The sample concentration is too high to evaluate accurate spike recoveries.   |





# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                               |             |                             |                  |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama                       | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                        | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                       | AZ0612      | New Hampshire               | 2975             |
| Arkansas                      | 88-0469     | New Jersey–NELAP            | TN002            |
| California                    | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 923         | North Dakota                | R-140            |
| Idaho                         | TN00003     | Ohio–VAP                    | CL0069           |
| Illinois                      | 200008      | Oklahoma                    | 9915             |
| Indiana                       | C-TN-01     | Oregon                      | TN200002         |
| Iowa                          | 364         | Pennsylvania                | 68-02979         |
| Kansas                        | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                      | 324         | Utah                        | TN000032021-11   |
| Massachusetts                 | M-TN003     | Vermont                     | VT2006           |
| Michigan                      | 9958        | Virginia                    | 110033           |
| Minnesota                     | 047-999-395 | Washington                  | C847             |
| Mississippi                   | TN00003     | West Virginia               | 233              |
| Missouri                      | 340         | Wisconsin                   | 998093910        |
| Montana                       | CERT0086    | Wyoming                     | A2LA             |
| A2LA – ISO 17025              | 1461.01     | AIHA-LAP,LLC EMLAP          | 100789           |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



# ADEC Contaminated Sites Program Laboratory Data Review Checklist

|                         |                                  |                       |                        |                         |                 |
|-------------------------|----------------------------------|-----------------------|------------------------|-------------------------|-----------------|
| <b>Completed By:</b>    | Sydney Souza                     | <b>CS Site Name:</b>  | Tesoro Northstore #112 | <b>Lab Name:</b>        | Pace Analytical |
| <b>Title:</b>           | Environmental Geologist          | <b>ADEC File No.:</b> | 100.26.159             | <b>Lab Report No.:</b>  | L1739790        |
| <b>Consulting Firm:</b> | Stantec Consulting Services Inc. | <b>Hazard ID No.:</b> | 24476                  | <b>Lab Report Date:</b> | June 6, 2024    |

**Note:** Any N/A or No box checked must have an explanation in the comments box.

## 1. Laboratory

- a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all the submitted sample analyses?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?  
Yes  No  N/A   
Comments: Samples were not transferred

## 2. Chain of Custody (CoC)

- a. Is the CoC information completed, signed, and dated (including released/received by)?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- b. Were the correct analyses requested?  
Yes  No  N/A   
Analyses requested: AK101, 8260C, AK102, 8270D-SIM, 6010D  
Comments: Click or tap here to enter text.

## 3. Laboratory Sample Receipt Documentation

- a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?  
Yes  No  N/A   
Cooler temperature(s): 0.2° C  
Comments: Click or tap here to enter text.

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1739790

- b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?

Yes  No  N/A

Comments: Click or tap here to enter text.

- c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?

Yes  No  N/A

Comments: Sample condition documented as OK

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?

Yes  No  N/A

Comments: No discrepancies documented

- e. Is the data quality or usability affected?

Yes  No  N/A

Comments: No discrepancies documented

#### **4. Case Narrative**

- a. Is the case narrative present and understandable?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Are there discrepancies, errors, or QC failures identified by the lab?

Yes  No  N/A

Comments: Case narrative documents no errors or discrepancies “unless qualified or notated within report”.

- c. Were all the corrective actions documented?

Yes  No  N/A

Comments: No corrective actions taken

- d. What is the effect on data quality/usability according to the case narrative?

Comments: No effect on data quality/usability

#### **5. Sample Results**

- a. Are the correct analyses performed/reported as requested on CoC?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Are all applicable holding times met?

Yes  No  N/A

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1739790

Comments: Click or tap here to enter text.

- c. Are all soils reported on a dry weight basis?

Yes  No  N/A

Comments: No soil samples submitted to the lab

- d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?

Yes  No  N/A

Comments: Click or tap here to enter text.

- e. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

## 6. QC Samples

- a. Method Blank

- i. Was one method blank reported per matrix, analysis, and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Are all method blank results less than LOQ (or RL)?

Yes  No

Comments: Click or tap here to enter text.

- iii. If above LoQ or RL, what samples are affected?

Comments: Click or tap here to enter text.

- iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A

Comments: Click or tap here to enter text.

- v. Data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No  N/A

**CS Site Name:** Tesoro Northstore #112

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Comments: Click or tap here to enter text.

- ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  N/A

Comments: Click or tap here to enter text.

- iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  N/A

Comments: Click or tap here to enter text.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A

Comments: Click or tap here to enter text.

- vii. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1739790

- iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - v. If %R or RPD is outside of acceptable limits, what samples are affected?  
Comments: Click or tap here to enter text.
  - vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - vii. Is the data quality or usability affected?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only
- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iv. Is the data quality or usability affected?  
Yes  No  N/A

Comments: Click or tap here to enter text.

e. Trip Blanks

- i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Are all results less than LoQ or RL?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. If above LoQ or RL, what samples are affected?

Comments: None.

- iv. Is the data quality or usability affected?

Yes  No  N/A

Comments: No affected samples.

f. Field Duplicate

- i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Was the duplicate submitted blind to lab?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| \times 100$$

Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes  No  N/A

Comments: Click or tap here to enter text.

- iv. Is the data quality or usability affected? (Explain)

Yes  No  N/A

Comments: Click or tap here to enter text.



**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1739790

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?

Yes  No  N/A

Comments: Used disposable equipment

ii. Are all results less than LoQ or RL?

Yes  No  N/A

Comments: Used disposable equipment

iii. If above LoQ or RL, specify what samples are affected.

Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

**7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)**

a. Are they defined and appropriate?

Yes  No  N/A

Comments: Click or tap here to enter text.

# ADEC Contaminated Sites Program Laboratory Data Review Checklist

|                         |                                  |                       |                        |                         |                 |
|-------------------------|----------------------------------|-----------------------|------------------------|-------------------------|-----------------|
| <b>Completed By:</b>    | Sydney Souza                     | <b>CS Site Name:</b>  | Tesoro Northstore #112 | <b>Lab Name:</b>        | Pace Analytical |
| <b>Title:</b>           | Environmental Geologist          | <b>ADEC File No.:</b> | 100.26.159             | <b>Lab Report No.:</b>  | L1746567        |
| <b>Consulting Firm:</b> | Stantec Consulting Services Inc. | <b>Hazard ID No.:</b> | 24476                  | <b>Lab Report Date:</b> | July 5, 2024    |

**Note:** Any N/A or No box checked must have an explanation in the comments box.

## 1. Laboratory

- a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all the submitted sample analyses?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?  
Yes  No  N/A   
Comments: Samples were not transferred

## 2. Chain of Custody (CoC)

- a. Is the CoC information completed, signed, and dated (including released/received by)?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- b. Were the correct analyses requested?  
Yes  No  N/A   
Analyses requested: AK101, 8260C, AK102, 8270D-SIM, 6010D  
Comments: Click or tap here to enter text.

## 3. Laboratory Sample Receipt Documentation

- a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?  
Yes  No  N/A   
Cooler temperature(s): 3.6° C  
Comments: Click or tap here to enter text.

**CS Site Name:** Tesoro Northstore #112

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- b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?

Yes  No  N/A

Comments: Click or tap here to enter text.

- c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?

Yes  No  N/A

Comments: Sample condition documented as OK

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?

Yes  No  N/A

Comments: No discrepancies documented

- e. Is the data quality or usability affected?

Yes  No  N/A

Comments: No discrepancies documented

#### **4. Case Narrative**

- a. Is the case narrative present and understandable?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Are there discrepancies, errors, or QC failures identified by the lab?

Yes  No  N/A

Comments: Case narrative documents no errors or discrepancies “unless qualified or notated within report”.

- c. Were all the corrective actions documented?

Yes  No  N/A

Comments: No corrective actions taken

- d. What is the effect on data quality/usability according to the case narrative?

Comments: No effect on data quality/usability

#### **5. Sample Results**

- a. Are the correct analyses performed/reported as requested on CoC?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Are all applicable holding times met?

Yes  No  N/A

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1746567

Comments: Click or tap here to enter text.

- c. Are all soils reported on a dry weight basis?

Yes  No  N/A

Comments: No soil samples submitted to the lab

- d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?

Yes  No  N/A

Comments: Click or tap here to enter text.

- e. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

## 6. QC Samples

- a. Method Blank

- i. Was one method blank reported per matrix, analysis, and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Are all method blank results less than LOQ (or RL)?

Yes  No

Comments: Click or tap here to enter text.

- iii. If above LoQ or RL, what samples are affected?

Comments: Click or tap here to enter text.

- iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A

Comments: Click or tap here to enter text.

- v. Data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No  N/A

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1746567

Comments: Click or tap here to enter text.

- ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  N/A

Comments: Click or tap here to enter text.

- iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  N/A

Comments: Click or tap here to enter text.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A

Comments: Click or tap here to enter text.

- vii. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1746567

- iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.  
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Comments: Click or tap here to enter text.
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Comments: Click or tap here to enter text.
  - vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?  
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Comments: Click or tap here to enter text.
  - vii. Is the data quality or usability affected?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only
- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?  
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Comments: Click or tap here to enter text.
  - ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iv. Is the data quality or usability affected?  
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Comments: Click or tap here to enter text.

e. Trip Blanks

- i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Are all results less than LoQ or RL?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. If above LoQ or RL, what samples are affected?

Comments: None.

- iv. Is the data quality or usability affected?

Yes  No  N/A

Comments: No affected samples.

f. Field Duplicate

- i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Was the duplicate submitted blind to lab?

Yes  No  N/A

Comments: Click or tap here to enter text.

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Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes  No  N/A

Comments: Click or tap here to enter text.

- iv. Is the data quality or usability affected? (Explain)

Yes  No  N/A

Comments: Click or tap here to enter text.

**CS Site Name:** Tesoro Northstore #112

**Lab Report No.:** L1746567

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?

Yes  No  N/A

Comments: Used disposable equipment

ii. Are all results less than LoQ or RL?

Yes  No  N/A

Comments: Used disposable equipment

iii. If above LoQ or RL, specify what samples are affected.

Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

**7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)**

a. Are they defined and appropriate?

Yes  No  N/A

Comments: Click or tap here to enter text.