

TABLE OF CONTENTS

| ACR | ONYMS AND ABBREVIATIONS | II |
|-------|--|----|
| 1.0 | EXECUTIVE SUMMARY | 1 |
| 2.0 | SITE BACKGROUND | 2 |
| 3.0 | FIELD ACTIVITIES | 2 |
| 4.0 | GROUNDWATER MONITORING RESULTS | 2 |
| | 4.1 GROUNDWATER ELEVATIONS | 2 |
| | 4.2 FIELD PARAMETERS | 3 |
| | 4.3 GROUNDWATER SAMPLE ANALYTICAL RESULTS | 3 |
| | 4.4 QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) REVIEW | 5 |
| 5.0 | REMEDIATION SYSTEM | 6 |
| 6.0 | DISCUSSION OF FINDINGS | 7 |
| | 6.1 GROUNDWATER HYDRAULIC CHARACTERISTICS | 7 |
| | 6.2 GROUNDWATER QUALITY | 7 |
| | 6.3 REMEDIATION SYSTEM | |
| 7.0 | CONCLUSIONS AND RECOMMENDATIONS | 8 |
| 8.0 | LIMITATIONS | 8 |
| LIS' | Γ OF TABLES | |
| | | |
| Table | | |
| | e 2 Field Parameterse 3a Groundwater Analytical Results for BTEX, GRO, and DRO | |
| | e 3b Groundwater Analytical Results for Napthalene, Trimethylbenzene (TMB), | |
| | and Sodium | |
| Table | 24 Laboratory Quality Control Objectives | 6 |
| LIS | Γ OF FIGURES | |
| | | |
| Figu | • • | |
| Figu | · | |
| Figu | re 3 Remediation System Layout | |
| API | PENDICES | |

В

A

Site Background Field Methods and Procedures

- C Field Measurements and Notes
- D Tables of Historical Monitoring Data
- E Laboratory Analytical Report and ADEC Laboratory Data Review Checklist

ACRONYMS AND ABBREVIATIONS

ADEC Alaska Department of Environmental Conservation

AK Alaska Test Method amsl above mean sea level

BTEX benzene, toluene, ethylbenzene, and xylenes

Chemox chemical oxidation
DO dissolved oxygen
DRO diesel range organics

EPA U.S. Environmental Protection Agency

GCL groundwater cleanup level

gpm gallons per minute
GRO gasoline range organics

Klozur® One Trademarked chemical oxidizer developed by PeroxyChem

mg/L milligrams per liter

mV millivolt

MW monitoring well

PAH polycyclic aromatic hydrocarbon PQL practical quantitation limit ORP oxidation-reduction potential

QA quality assurance
QC quality control
RW remediation well
Speedway Speedway, LLC

Stantec Consulting Services, Inc.

Tesoro Tesoro Refining and Marketing Company

TMB Trimethylbenzene

μs/cm microSiemens per centimeterUST underground storage tankVOC Volatile Organic Compounds

1.0 EXECUTIVE SUMMARY

This second quarter 2021 Monitoring Event Report was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Speedway, LLC for Speedway Store 5325 (formerly Tesoro 2 Go Mart #52), located at 7172 West Parks Highway, Wasilla, Alaska (Figure 1). The methods used for this monitoring event were conducted in accordance with the Alaska Department of Environmental Conservation (ADEC) approved 2021 Corrective Action Work Plan for this site.

This monitoring event was conducted on May 18, 2021, by the Stantec environmental staff who included: John Marshall, Environmental Scientist, and Austin Badger, Engineer In Training.:

- Measuring depth to groundwater
- Measuring field intrinsic water quality parameters
- Checking operation of the in-situ remediation system
- Collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, MW 16-2 and Remediation Well RW 16-1 (Figure 2).

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

- Remediation Well RW 16-1: Ethylbenzene, xylenes, diesel range organics (DRO), gasoline range organics (GRO), 1,2,4 trimethylbenzene, and 1,3,5 trimethylbenzene. Benzene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs).
- Monitoring Well MW G-3: DRO.
- The naphthalene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs) in all of the wells sampled

The hydraulic gradient across the site was found to be approximately 0.020 feet per foot directed toward the south at 182 degrees; however, the hydraulic flow of the groundwater does not take into account the groundwater level in MW G-1 since this well receives influent pumped from the air-lift well described in the following paragraph. The groundwater gradient and flow direction are generally consistent with past monitoring events.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system that includes of an air-lift well (see Figure 3), was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and observed to be discharging to the recirculation/receiving well (MW G-1).

In addition, a chemox injection into the groundwater table via remediation wells RW 20-1 and RW 20-2 was completed during the monitoring event. A total of 220 pounds of Klozur One[®] and approximately 500 gallons of clean water from the store's water system was injected.

2.0 SITE BACKGROUND

Background information for this site is summarized in Appendix A.

3.0 FIELD ACTIVITIES

The following field activities were conducted during the first quarter 2021 groundwater monitoring event:

- Measured the depth to groundwater in monitoring wells G-1, G-3, G-4, G-5, G-7, MW16-2, and remediation well RW16-1.
- Measured the following intrinsic water quality parameters in all wells sampled except for MW G-4: temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance.
- Checked the operation of the VSC treatment system.
- Collected groundwater samples from monitoring wells G-1, G-3, G-5, G-7, MW16-2, and remediation well RW16-1 and submitted them for laboratory analysis for the following: GRO by Alaska Test Method (AK)101; DRO by AK102; and select petroleum associated volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Test Method 8260C; and sodium by Metals (ICP) by Method 6010C.

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 ELEVATIONS

Table 1 presents groundwater elevations at this site based on the depths to static groundwater levels measured during this monitoring event.

Table 1 Groundwater ElevationsMeasured on May 18, 2021

| Monitoring Well Identification | Top of Casing Elevation ¹ (feet) | Depth to Water (feet btoc) | Groundwater Elevation (feet) |
|--------------------------------|---|-------------------------------|---------------------------------|
| G-1 ² | 99.49 | 2.25 | 97.24 |
| G-2 | 99.26 | NM | NC |
| G-3 | 99.13 | 34.41 | 64.72 |
| G-4 | 98.29 | 35.80 | 62.49 |
| G-5 | 101.42 | 38.88 | 62.54 |
| G-7 | 99.57 | 38.61 | 60.96 |
| RW 16-1 | 99.45 | 33.32 | 66.13 |
| MW 16-2 | 99.23 | 32.93 | 66.30 |

Key

- 1 G-1, G-2, G-3, G-4, G-5, G-7, RW16-1, and MW16-2 surveyed in October 2019. Elevations are presented in respect to a local benchmark with 100-foot datum.
- 2 Air lift pump discharge causes groundwater elevation to fluctuate. An average groundwater elevation is reported. btoc below top of casing; NM Not measured; NC Not Calculated

The hydraulic gradient across the site was found to be approximately 0.020 feet per foot directed toward the south at 182 degrees; however, the hydraulic flow of the groundwater does not take into account the groundwater level in MW G-1 since this well receives influent pumped from the air-lift well described in the following paragraph. The groundwater gradient and flow direction are generally consistent with past monitoring events.

4.2 FIELD PARAMETERS

Temperature, pH, DO, ORP, and specific conductance were measured following purging of the sampled wells. Monitoring and remediation wells were purged of three well volumes or until purged dry and allowed to recharge prior to sampling. Results of water quality parameter testing are presented in Table 2.

Table 2 Field Parameters Measured on May 18, 2021

| Monitoring Well Identification | Purged Volume (gallons) | Temp. (°C) | pН | DO (mg/L) | ORP (mV) | SC (μs/cm°C) |
|-----------------------------------|----------------------------|---------------|-------|--------------|-------------|-----------------|
| G-1 | NA | 10.4 | 7.10 | 4.87 | 189.9 | 249.9 |
| G-3 | 4.5 | 4.9 | 6.86 | 0.64 | 141.6 | 558.1 |
| G-5 | 1.23 | 6.2 | 6.64 | 1.13 | 179.2 | 530.9 |
| G-7 | 1.41 | 5.9 | 6.30 | 10.03 | 168.1 | 284.2 |
| RW16-1 | 1.5 | 5.4 | 10.27 | 13.06 | 138.0 | 656.8 |
| MW16-2 | 2.30 | 4.9 | 7.38 | 6.49 | 161.8 | 546.3 |

Key:

°C – degrees Celsius NA – not applicable

 μ S/cm°C – microSiemens per centimeter °C ORP – oxidation-reduction potential

DO - dissolved oxygen $pH - -log [H^+]$

mg/L – milligrams/liter SC – specific conductance

 $mV-millivolts \\ NM-not\ measured \\ Temp.-temperature$

A typewritten copy of the sampler's field measurements and notes are provided as a worksheet in Appendix C.

4.3 GROUNDWATER SAMPLE ANALYTICAL RESULTS

Pace Analytical Laboratory performed all analysis of groundwater samples for this sampling event. Historical monitoring data for this site are presented in Appendix D. Laboratory analytical results are summarized in Table 3. The laboratory analytical report is provided in Appendix E.

Monitoring Wells G-1, G-3, G-5, G-7, MW 16-2 and remediation well RW 16-1 were sampled in accordance with the 2021 Corrective Action Work Plan. Results of the analytical sampling showed that benzene, ethylbenzene, xylenes, DRO, GRO, 1,2,3 Trimethylbenzene, 1,3,5 Trimethylbenzene concentrations exceeded the GCLs in remediation well RW16-1. In addition, the DRO GCL was exceeded in MW G-3. Although the results shown in Table 3b for naphthalene were reported as undetected, the laboratory reporting detection level for naphthalene exceeded the GCL for all of the wells sampled; hence the results are shown in bold print.

Table 3a Groundwater Analytical Results for BTEX, GRO, and DRO Samples collected on May 18, 2021

| Sample Identification | Benzene ¹ (mg/L) | Toluene ¹ (mg/L) | Ethylbenzene ¹ (mg/L) | Xylenes ¹ (mg/L) | GRO (mg/L) | DRO (mg/L) |
|------------------------------------|-----------------------------|--------------------------------|----------------------------------|-----------------------------|--------------------------|-----------------------|
| G-1 | U (0.00100) | U (0.00100) | U (0.00100) | U (0.00200) | 0.0152 B,J (0.100) | 0.405 J (0.840) |
| G-3 | U (0.00100) | U (0.00100) | 0.00111 | 0.00102 J (0.00200) | 1.36 | 8.48 |
| G-5 | U (0.00100) | U (0.00100) | 0.00170 | U (0.00200) | 0.0693 B,J | U (0.800) |
| G-7 | U (0.00100) | U (0.00100) | U (0.00100) | U (0.00200) | 0.0320 B,J (0.100) | U (0.800) |
| RW16-1 | U (0.200) | U (0.200) | 0.761 | 4.80 | 3.38 | 7.24 |
| MW16-2 | U (0.00100) | U (0.00100) | U (0.00100) | U (0.00200) | 0.419 | U (0.800) |
| DUP-01 (duplicate of MW16-2) | U (0.00100) | U (0.00100) | U (0.00100) | U (0.00200) | 0.751 | U (0.840) |
| Trip Blank | U (0.00100) | U (0.00100) | U (0.00100) | U (0.00200) | NT | NT |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 |

Table 4b Groundwater Analytical Results Naphthalene, Trimethylbenzene (TMB) and Sodium

Samples collected on May 18, 2021

| Sample Identification | Naphthalene (mg/L) | 1,2,4-TMB (mg/L) | 1,3,5-TMB (mg/L) | Sodium (mg/L) |
|------------------------------|-----------------------|---------------------|-------------------------|---------------|
| G-1 | U (0.00500) C3 | U (0.00100) | U (0.00100) | 16.4 |
| G-3 | U (0.00500) C3 | 0.0452 | 0.0457 | 32.2 |
| G-5 | U (0.00500) C3 | U (0.00100) | 0.000191 J (0.00100) | 13.9 |
| G-7 | U (0.00500) C3 | U (0.00100) | U (0.00100) | 9.55 |
| RW16-1 | U (1.00) C3 | 2.50 | 0.530 | 24.1 |
| MW16-2 | U (0.00500) C3 | 0.0110 | 0.0103 | 4.72 |
| DUP-01 (duplicate of MW16-2) | U (0.00500) C3 | 0.0174 | 0.0143 | 4.86 |
| Trip Blank | U (0.00500) C3 | U (0.00100) | U (0.00100) | NT |
| GCLs | 0.0017 | 0.056 | 0.060 | NA |

Key

J – The identification of the analyte is acceptable; the reported value is an estimate

1 - Analyzed by U.S. Environmental Protection Agency Method 8260C

Dup-01 - Duplicate Sample of MW16-2

AK - Alaska Test Method

DRO – Diesel range organice, analyzed by AK102

GCLs - Groundwater cleanup levels, per Alaska Department of Environmental Conservation 18

Alaska Administrative Code 75.345, Table C, updated September 29, 2018.

GRO - Gasoline range organics, analyzed by AK101

mg/L - Milligrams per liter

U – Undetected above practical quantitation limits shown in parentheses

C3 – The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

NT - Not Tested

Bold - indicates the concentration exceeds the GCL or, if not detected, the practical quantitation limit exceeds the GCL.

NA – Not Applicable

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

Laboratory QC data and the ADEC Laboratory Data Review Checklist are included with the laboratory report in Appendix E.

A duplicate sample set was collected to determine the precision of the field collection and laboratory analysis for the sampling event. Sample Dup-01 is a duplicate of Sample MW16-2. Data presented in Table 4 show that the precision for the duplicate sample set (analytes that were detected above the practical quantitation limit [PQL] and exceeded GCLs) was within the established QA criteria tolerances for GRO. Precision could not be calculated for benzene, toluene,

xylene, ethylbenzene and DRO because they were not detected above the PQL in one or more samples. The holding times for GRO, DRO, and VOCs were within established criteria.

Table 5 Laboratory Quality Control Objectives

| Quality Control Designation | Tolerance | Results for this Event |
|------------------------------------|-----------|------------------------|
| Holding Times | | |
| DRO/Water/to analyze | 40 days | 10 days ¹ |
| DRO/Water/to extract | 14 days | 10 days |
| GRO/Water/to analyze | 14 days | 5 days ² |
| VOCs/Water/to analyze | 14 days | 10 days |
| Field Duplicates – Precision | | |
| Benzene/Water | ± 30% | NC |
| Toluene/Water | ± 30% | NC |
| Ethylbenzene/Water | ± 30% | NC |
| Xylenes/Water | ± 30% | NC |
| GRO/Water | ± 30% | 19 % |
| DRO/Water | ± 30% | NC |

Key:

% – percent

 \pm – plus or minus

DRO – diesel range organics

GRO – gasoline range organics

NC – Not calculated because the analyte was not detected above the practical quantitation limit in one or more sample

VOCs – volatile organic compounds

1 – DRO in samples G-03 and RW16-01 were analyzed 14 days from collection.

2 - GRO in samples G-01 and RW16-01 were analyzed 14 days from collection.

5.0 REMEDIATION SYSTEM

The on-site groundwater treatment process consists of a VSC system and periodic injections of a chemox solution into the groundwater table. The chemox solution consists of water and an oxidant product commercially referred to as Klozur One[®], which is a sodium persulfate compound. Historically, the chemox solution was injected into the formation via remediation well RW 16-1. In October 2020, Stantec completed the installation and development of two 4-inch diameter chemox injection wells, RW 20-1 and RW 20-2, located approximately 10-feet north (upgradient) of remediation well RW 16-1 (Figure 3).

Chemox injection took place on May 18, 2021, during the completion of the groundwater monitoring event. Stantec completed an injection of two 55-pound bags of Klozur One[®] product mixed with 50 gallons of water injected into each of the two remediation/injection wells for a total 220 pounds of Klozur One[®] and approximately 100 gallons of clean water from the store's water system. Following the chemox injection, 200 gallons of water was injected into each well as a means to provide a "hydraulic push" to dose the chemox solution into the groundwater table with the goal of increasing contact between the chemox solution and contaminants within the subsurface

soil and groundwater formation. The next scheduled injection of chemox into the treatment wells is planned for the third quarter of 2021.

The layout of the on-site VSC system and location of RW 20-1 and RW 20-2 are shown on Figure 3. The VSC compressor was operating in the normal range and operating the air-lift pump that discharges into the receiving well (MW G-1) for groundwater recirculation purposes as originally designed.

6.0 DISCUSSION OF FINDINGS

6.1 GROUNDWATER HYDRAULIC CHARACTERISTICS

The hydraulic gradient across the site was found to be approximately 0.020 feet per foot directed toward the south at 182 degrees; however, the hydraulic flow of the groundwater does not take into account the groundwater level in MW G-1 since this well receives influent pumped from the air-lift well described in the following paragraph. The groundwater gradient and flow direction are generally consistent with past monitoring events.

6.2 GROUNDWATER QUALITY

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

- Remediation Well RW 16-1: Ethylbenzene, xylenes, diesel range organics (DRO), and gasoline range organics (GRO). Benzene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs).
- Monitoring Well MW 16-2: GRO.
- The naphthalene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs) in all of the wells sampled.

All historic data for benzene, toluene, ethylbenzene, and xylenes (BTEX), GRO, DRO, and groundwater elevations for the monitoring wells associated with this site are tabulated in Appendix D.

6.3 REMEDIATION SYSTEM

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor was operating in the normal range and operating the air-lift pump that discharges into the receiving well (MW G-1) for groundwater recirculation purposes as originally designed.

Chemox injection took place on May 18, 2021, during the completion of the groundwater monitoring event. Stantec completed an injection of two 55-pound bags of Klozur One® product

mixed with 50 gallons of water injected into each of the two remediation/injection wells for a total 220 pounds of Klozur One[®] and approximately 100 gallons of clean water from the store's water system. Approximately 400 gallons of clean water from the store's water system was injected into the two wells to flush the chemox solution into the groundwater table.

7.0 CONCLUSIONS AND RECOMMENDATIONS

No anomalies were found during this first quarter 2021 monitoring event that require additional corrective action or changes to the approved year 2021 Corrective Action Work Plan for this site.

8.0 LIMITATIONS

Stantec conducted this monitoring event in accordance with the 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). No other warranty, expressed or implied, is made. Data and recommendations made herein were prepared for Speedway, LLC for Speedway Store 5325 (former Tesoro 2 Go Mart #52). Information herein is for use at this site in accordance with the purpose of the report described.

FIGURES

Figure 1 Location and Vicinity Map

Figure 2 Site Plan with Groundwater Elevations and

Analytical Results

Figure 3 Remediation System Layout



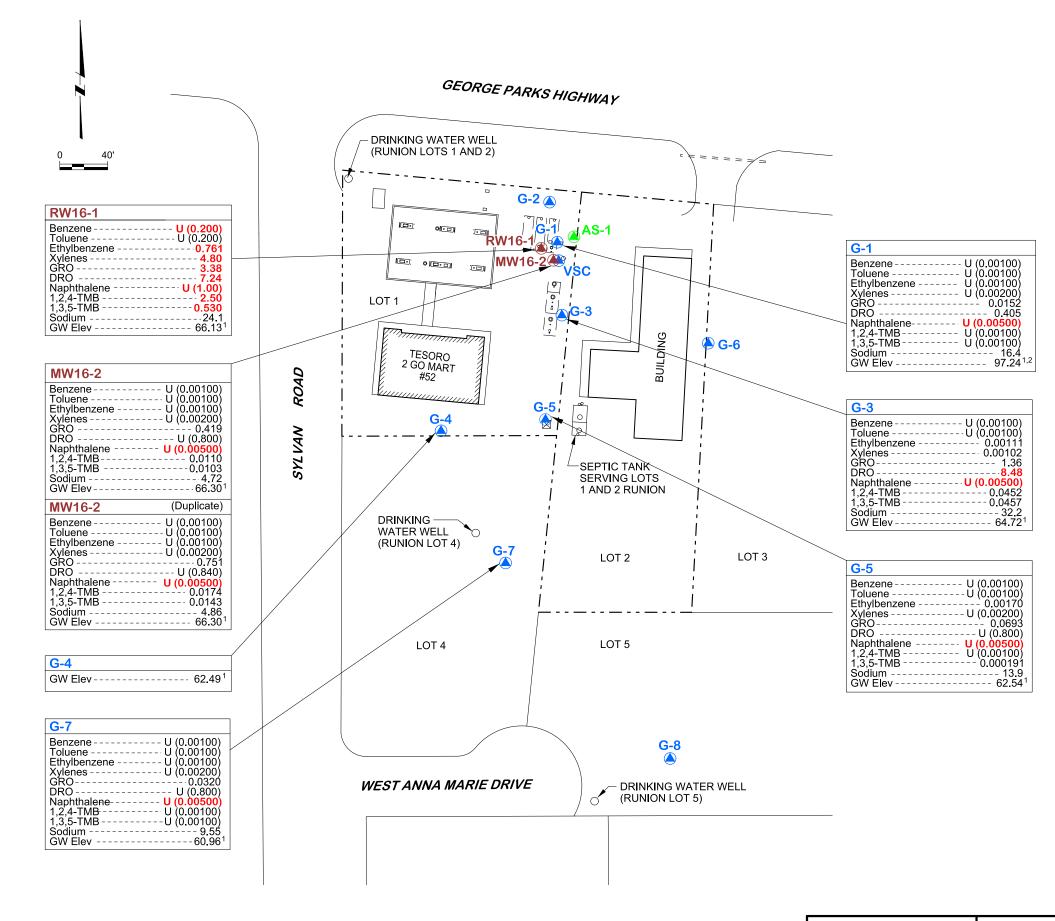


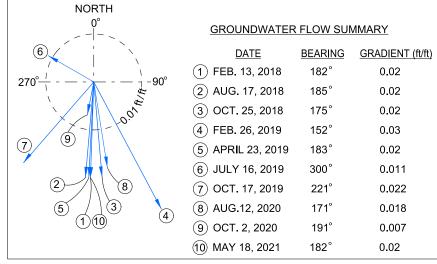


SPEEDWAY STORE 5325 (FORMER TESORO 2 GO MART #52) 2Q 2021 GWM EVENT REPORT

LOCATION AND VICINITY MAP

FIGURE





LEGEND:

U

PROPERTY LINE

2016 SOIL BORING/MONITORING WELL

MONITORING WELL

AIR SPARGE WELL

AS AIR SPARGE

DRO DIESEL RANGE ORGANICS GRO

GASOLINE RANGE ORGANICS GW Elev. GROUNDWATER ELEVATION

TMB TRIMETHYLBENZENE

UNDETECTED ABOVE PRACTICAL QUANTITATION LIMIT SHOWN IN PARENTHESES

VSC VAPOR STRIPPING AND CIRCULATION

G-1, G-2, G-3, G-4, G-5, G-7, RW16-1, AND MW16-2 SURVEYED IN OCTOBER 2019. ELEVATIONS ARE PRESENTED IN RESPECT TO A LOCAL BENCHMARK

WITH 100-FOOT DATUM.

AIR LIFT PUMP DISCHARGE CAUSES GROUNDWATER ELEVATION TO FLUCTUATE. AN AVERAGE GROUNDWATER ELEVATION IS REPORTED.

NOTES:

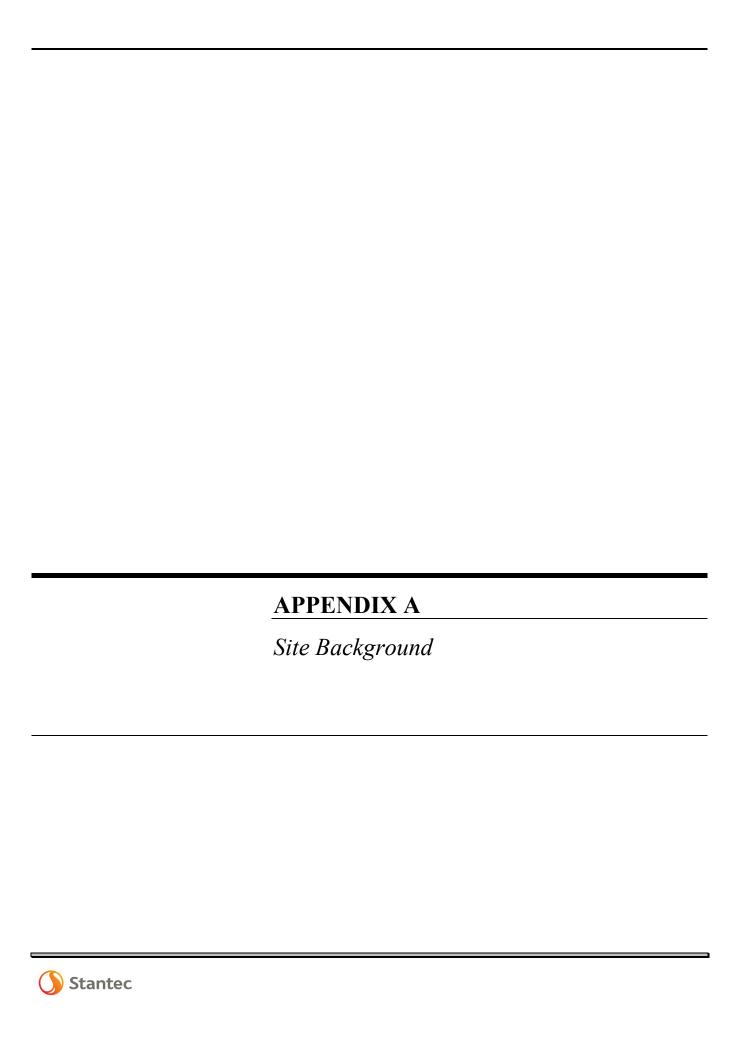
- 1. RESULTS SHOWN ARE FOR WELLS SAMPLED ON MAY 18, 2021.
- 2. RESULTS ARE IN MILLIGRAMS PER LITER
- 3. GROUNDWATER ELEVATION IN FEET 1
- 4. BOLD/ RED TEXT INDICATES CONTAMINANT CONCENTRATIONS ABOVE CLEANUP LEVELS FOR THIS SITE



SPEEDWAY STORE 5325 (FORMER TESORO 2 GO MART #52) 2Q 2021 GWM EVENT REPORT

SITE PLAN WITH GROUNDWATER **ANALYTICAL RESULTS**

2



APPENDIX A – SITE BACKGROUND

Tesoro 2 Go Mart #52 (Mile 49 Parks Highway, Wasilla, Alaska) **ADEC Facility ID #648; ADEC File #2265.26.006**

September 1996. During the removal of the former underground storage tank (UST) fueling system (consisting of several fuel dispensers, two 12,000-gallon gasoline, and one 12,000-gallon diesel USTs) on September 7, 1996, petroleum contamination was encountered in the surrounding soil. Gilfilian Engineering conducted the UST site assessment work. Approximately 240 cubic yards of gasoline and 60 cubic yards of diesel contaminated soil was excavated and treated at Alaska Soil Recycling.

February 1997. The Alaska Department of Environmental Conservation (ADEC) reviewed the UST Closure Site Assessment Report prepared by Gilfilian Engineering. Subsequently, a Release Investigation (RI) Work Plan prepared by Gilfilian Engineering was approved by ADEC.

April 1997. The findings of the RI (later referred to as Phase I RI) showed high levels of diesel contamination under the diesel dispenser islands and gasoline contamination under the unleaded gasoline UST to 36 feet below ground surface (bgs). The RI included drilling five soil borings and installing and sampling one groundwater monitoring well (identified as G-1). Groundwater was also found to be contaminated. Subsequently, an ADEC-approved work plan was prepared by Gilfilian Engineering for Phase II RI.

December 1997. Phase II RI report submitted to ADEC. The RI included drilling soil borings and installing and sampling four groundwater monitoring wells (G-2, G-3, G-4 and G-5).

April 1998. ADEC approved the installation of a Soil Vapor Extraction (SVE) system.

June 1998. Gilfilian Engineering submitted a Well Search report to ADEC. The well search targeted an area of 0.25-mile radius centered on the gas station site.

July 1998. ADEC approved the work plan prepared by Gilfilian Engineering for a Phase III RI.

August 1998. A Phase III RI was completed at the site by Gilfilian Engineering. The RI included installing and sampling three groundwater monitoring wells (G-6, G-7, and G-8).

January 2002. Several "rising and falling head hydraulic conductivity tests" (slug tests using the Hvorslev method) were performed by Gilfilian Engineering on January 9, 2002. The hydraulic conductivity at Monitoring Wells G-4 and G-7 exceeded 171 feet/day. Based on the high hydraulic conductivity values, Gilfilian Engineering recommended a pilot test to determine the effectiveness of treating the groundwater with a vapor stripping and circulation (VSC) well.

March/April 2002. One soil boring was drilled on March 6, 2002, for installation of a VSC well. Benzene, toluene, ethylbenzene, and xylenes (BTEX), gasoline range organics (GRO), and diesel range organics (DRO) tested in soil samples collected from the soil boring were detected above

ADEC soil cleanup levels (SCLs). In addition, a second soil boring was drilled for installation of an air sparge (AS) well that was designated AS-1. Benzene, ethylbenzene, and GRO were detected above SCLs and BTEX and GRO were above the ADEC groundwater cleanup levels (GCLs) in AS-1. Pilot testing conducted in March and April 2002 showed the hydrogeological formation could not provide adequate water to operate a VSC or AS system at this site. Continued operation of the SVE system only was recommended, and the VSC well was subsequently connected to the SVE system.

June 2002. The SVE system was re-started on June 25, 2002 and was set to withdraw vapors from Wells SVE-1, SVE-5, and SVE-6. A significant increase in the volatile contaminant concentrations to 139 parts per million by volume (ppmv) as measured by a photoionization detector (PID), was noted in the SVE system discharge. By July 3, 2002, the volatile levels dropped to 58.5 ppmv, which was possibly related to the significant decrease in the thickness of free product measured in Monitoring Well G-1 (SVE-1).

December 2002. An SVE pilot study using a 5-horsepower FL-707 Rotron blower was conducted on December 19, 2002. The purpose was to determine if the use of a larger capacity blower would increase the recovery of volatile petroleum contaminants. The dramatic rise in PID readings during the second quarter of 2002 is attributed to the addition of SVE Wells 5, 6, and VSC.

October 2003. A 1-horsepower air compressor was installed for operation of the AS system. The AS well (AS-1) was previously installed at the site in 2002. The VSC manhole was reconfigured to enhance SVE system performance.

July 2004. The AS system was converted into a VSC system for pilot testing on July 21, 2004. Down well piping was installed in Monitoring Well VSC and connected to the compressor air supply line. Pilot testing indicated the system could be an effective groundwater treatment option. The AS compressor was removed from the site for maintenance.

September 2, 2004. The VSC system was activated following ADEC approval. The VSC system was treating approximately 1 gallon of contaminated groundwater per minute, or 1,440 gallons per day. The treated water was transferred (pumped by air) from the VSC well to Monitoring Well G-1 for circulation.

October 2007. Ten confirmation soil borings (CSB-1 through CSB-10) were installed on October 3 through 9, 2007, near the former USTs and areas of previous investigations across the site. Benzene, ethylbenzene, xylenes, GRO, and DRO were detected above the SCLs in two or more borings. Toluene was the only analyte not detected above the SCLs in any soil boring.

September 2008. Three chemical oxidation applications were completed by MWH Americas, Inc. (MWH). Sampling of groundwater monitoring wells noted benzene, ethylbenzene, and GRO detected above the GCLs in Monitoring Well G-3.

February 2009. Monitoring Well G-3 showed a consistent trend in increased hydrocarbon concentrations, and a fine sediment with a hydrocarbon odor was found in the bottom of the

monitoring well. MWH recommended that the well be re-developed to remove the sediment build-up.

March 2009. Monitoring Well G-3 was redeveloped to remove the dark colored sediment. The sediment was noted to have a slight petroleum odor and heavy sheen.

January/June/August 2010. MWH performed potassium permanganate chemical oxidation treatments on January 27 and 28, June 11, and August 20, 2010. A solution of 3 percent potassium permanganate (180, 646, and 767 gallons, respectively) was injected into several groundwater monitoring wells.

October 30, 2012. The chemical oxidant Klozur CR[®] was injected into three on-site wells (Monitoring Well G-1 and SVE Wells SVE-5 and SVE-6). The Klozur CR[®] injection process was conducted to test the use of the existing remediation infrastructure for a means of delivering the chemical oxidant into the contaminated groundwater aquifer at the site, as well as evaluating the effectiveness of the chemical oxidant.

October 2012. Groundwater sample results were non-detect in all four monitoring wells sampled. The water table was considerably higher than normal, and the absence of dissolved contaminants was assumed to be associated with the high water table. The last time a high water table was observed was in October 2006, and the concentrations were all non-detects in all monitoring wells except for G-3, which was lower than historical concentrations at that time.

January 30, 2013. DRO was detected in Monitoring Wells G-1, G-3, and G-7, and toluene, ethylbenzene, and xylenes were detected in G-3 – with all analytes below the GCLs. The water table was higher than normal, and the concentrations detected were not believed to be indicative of the groundwater conditions at the site.

December 19, 2013. A chemical oxidation application of Klozur CR® was injected into three onsite wells: Monitoring Well G-1 and Remediation Wells SVE-5 and SVE-6.

February 2014. Groundwater sampling showed contaminant levels in all monitoring wells that were sampled remained below the GCLs for the last seven monitoring events.

May 2014. DRO was detected in Monitoring Well G-3 at 3.3 milligrams per liter (mg/L), exceeding the GCL for the first time since February 2011. The remediation system was operating on a full-time basis.

October 2014. Groundwater sampling showed contaminant levels in all monitoring wells were below GCLs. The remediation system was operating on a full-time basis.

February 2015. GRO and DRO were detected at 4.8 and 12 mg/L, respectively, in Monitoring Well G-3. All other analytes were below GCLs. Remediation system operating on full-time basis.

May 2015. GRO was detected at 2.6 mg/L in the duplicate sample collected from Monitoring Well G-3, the primary and all other analytes were below GCLs.

September 2015. Groundwater sampling showed contaminant levels in all monitoring wells were below GCLs. The remediation system was operating on a full-time basis.

October 2015. Three CSBs were installed by MWH to investigate the extent of any remaining soil contamination at the site. Two areas were investigated: the former diesel dispensers and the former gas dispensers and USTs. Soils encountered in the area of the former diesel dispensers had elevated headspace field screening results; however, DRO concentrations were below laboratory practical quantitation limits (PQLs). Soils encountered in the area of the former gas dispensers and USTs had detectable concentrations of GRO and one exceedance above the SCLs established for the site. Soil GRO contamination was limited to below the current groundwater level at the site. Similar observations were documented in 2007. Analytical results collected from the 2015 CSBs indicate that concentrations of petroleum contamination remaining at the site are generally decreasing when compared to the analytical results from the 2007 CSBs. Future management strategies at the site may include targeted chemical oxidation in the area of the former gas dispensers and USTs as represented by CSB 9-3, with no further cleanup action at the former diesel dispensers.

November 2015. GRO was detected at 3.2 mg/L in Monitoring Well G-3. An analytical sample was collected from the VSC well which indicated all analytes were below GCLs for the first time since September 2004. The remediation system was offline upon arrival at the site and remained offline pending groundwater conditions and further analytical sampling.

January 2016. The first quarter 2016 monitoring event was conducted on January 28, 2016. Results of the analytical sampling showed that all analytes were below GCLs, except GRO concentrations in Monitoring Well G-3. One or more analytes were detected above the PQLs in all the monitoring wells sampled, except Monitoring Well G-5. Analytical results from Remediation Well VSC were below PQLs.

May 2016. The second quarter 2016 monitoring event was conducted on May 9, 2016. All analytes were below the GCLs, only Monitoring Well G-3 had analytes detected above PQLs. Monitoring Wells G-2 and G-5 had insufficient water for sampling.

Four CSBs were placed at four locations surrounding the 2015 CSB 9-3, to the north, south, east, and west. Two discrete analytical soil samples were collected from CSB 16-1, CSB 16-2, and CSB 16-4, and one sample from CSB 16-3. These samples were collected from the locations with the highest PID readings, or at the water table interface if no detections were observed in field screened samples.

CSB 16-1 and CSB 16-2 (Samples CSB 16-1 38 and CSB 16-2 39), which were the closest to the former USTs and located to the north and east of 2015 CSB 9-3, respectively, both had GRO exceedances similar to the findings of the nearby 2015 Boring CSB 9-3. All the samples which exceeded SCLs were below the water table that was measured at a depth of 35.48 feet btoc in nearby Monitoring Well G-3 at the time of drilling. Analytical results at the water table interface at three locations were below laboratory PQLs. The CSB 16-3 and CSB 16-4, located at a greater

distance from the former USTs compared to CSB 16-1 and CSB 16-3 and to the south and west of 2015 CSB 9-3, did not have analyte exceedances. Soil Borings CSB 16-1 and CSB 16-2 were completed with PVC riser and screen assemblies to provide future access points for monitoring and/or remediation activities.

October 2016. The third quarter 2016 monitoring event took place on October 24, 2016. All wells listed in the 2016 Work Plan to be sampled in the third quarter had sufficient water for sampling. Monitoring Well G-3 had GRO detected above GCL. New Wells RW16-1 and MW16-2 were sampled for the first time. Remediation Well RW16-1 had all analytes, except benzene and toluene, detected above their GCLs. Monitoring Well MW16-2 had analytes detected above PQLs, but none above GCLs. The VSC system was not operating.

December 2016. The fourth quarter 2016 monitoring event took place on December 9, 2016. All wells listed in the 2016 Work Plan to be sampled in the fourth quarter had sufficient water for sampling. Monitoring Well G-3 had GRO detected above GCL (update effective November 6, 2016). Drinking water samples had no detections above PQLs. The VSC system was not operating.

February 2017. The first quarter 2017 monitoring event took place on February 8, 2017. Monitoring Wells G-1 and G-3 purged dry and did not recover sufficiently to allow for sampling. Monitoring Well G-5 was dry upon arrival at the site. Remediation Well RW16-1 and Monitoring Well MW16-2 were sampled. Ethylbenzene, xylenes, GRO, and DRO were detected above GCLs in both wells. The VSC system remained off-line due to low groundwater conditions and/or frozen circulation line. The SVE treatment system was not operational and will require maintenance to the blower system following spring breakup.

April and May 2017. The second quarter 2017 monitoring event took place on April 25, 2017. Analytes were detected above their GCLs in Monitoring Wells G-3, G-5, and MW16-2, and Remediation Well RW16-1. These wells had exceedances of specific volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) consisting of 1,2,4- and 1,3,5-trimethylbenzene compounds and naphthalene.

Routine maintenance was conducted on the SVE and VSC systems, but due to unresolved electrical power/control issues, both systems are currently not operating until additional corrective action services are provided by an electrician.

Also, representative water samples were collected from the domestic water systems serving the existing buildings on Lots 1, 3 and 4 in Runion Subdivision, and were analyzed for public drinking water VOCs and DRO. No detectable levels of contaminants were found in any of the domestic drinking water wells.

On May 3, 2017, the first phase of the pilot test was initiated with an injection of a chemical oxidant (chemox) consisting of Klozur CR® into the new Remediation Well RW16-1. The pilot test will be continued during the third and fourth quarters of 2017, when the wells will be resampled to determine the impact of the chemox injection. Subject to the findings of the 2017 monitoring events, the pilot test may be continued in 2018 with several more injections of Klozur CR®.

October 2017. The fourth quarter 2017 monitoring event took place on October 20, 2017. DRO was detected above the GCL in Monitoring Well G-3. Analytes detected above their GCLs in MW16-2 included: ethylbenzene, GRO, naphthalene, and 1,2,4-trimethylbenzene.

The SVE and VSC treatment systems were not operating due to electrical control systems malfunctions. The treatment systems are scheduled for replacement and/or upgrade in 2018.

The pilot test program for the chemox injection was initiated in May 2017 in accordance with the ADEC approved work plan for the 2017 Work Plan Task 3. The test results for intrinsic parameters measured during the October 2017 monitoring event indicate no unusual findings and will be monitored in future quarterly monitoring events scheduled for 2018 with additional applications of Klozur CR[®] into Remediation Well RW16-1.

February 2018. The first quarter 2018 monitoring event took place on February 13, 2018. Analytes detected above their GCLs included ethylbenzene and GRO in Monitoring Well MW16-2 and DRO in Monitoring Well G-3.

The SVE treatment system was off-line pending repairs. The operation of the VSC system was interrupted in the second quarter of 2017 relating to an issue with the variable frequency drive on the compressor and will be brought back online when the system can be evaluated by a licensed electrician.

Ongoing monitoring of sodium and total organic carbon, relating to the May 2017 chemical oxidation pilot test, showed elevated concentrations of both analytes in Monitoring Well G-3. Conductivity was also found to be elevated in Monitoring Well G-1, which may also indicate the presence of residual chemical oxidant.

August 2018. The third quarter monitoring event took place on August 17, 2018. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeding the GCLs for: DRO in Monitoring Wells G-1 and G-3; GRO in Monitoring Well 16-2, and ethylbenzene, xylenes, GRO, and DRO in Remediation Well 16-1.

Several analytes for VOCs and polynuclear aromatic hydrocarbons (PAHs) were reported as undetected but had laboratory reporting limits that equaled or exceeded their corresponding GCLs. These undetected analytes were noted in all the wells that were sampled.

Also, representative water samples were collected from the domestic water systems serving the existing buildings on Lots 1&2, 4, and 5 in Runion Subdivision, and were analyzed for public drinking water VOCs. All the domestic drinking water wells were found to have no detectable levels of contaminants of concern.

The SVE and VSC treatment systems are not operating pending future repairs and/or modifications to the electrical systems which will be evaluated by a licensed electrician.

October 2018. The fourth quarter groundwater monitoring event was conducted on October 25, 2018. The monitoring event included measuring depth to water, field intrinsic water quality

parameters, and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeding the GCLs for: DRO in Monitoring Well G-3; and 1,2,4-trimethylbenzene in Monitoring Well 16-2.

The VSC treatment system is currently operating and pumping, via the air-lift pump, approximately 2 to 3 gallons per minute on a continuous basis. During the 3rd quarter of 2018, Stantec completed a chemox injection Klozur One[®]. Fifty-five pounds of Klozur One[®] was mixed with approximately 100 gallons of clean water. The chemox solution was injected into Remediation Well RW 16-1.

February 2019. The first quarter 2019 monitoring event took place on February 26, 2019. The monitoring event included measuring depth to water, field intrinsic water quality parameters, and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. The depth to water and field intrinsic water quality parameters were also measured in Remediation Well RW16-1. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeding the GCLs for: DRO in Monitoring Well G-3 and GRO in Monitoring Well 16-2.

The VSC and SVE treatment systems were found to be off (inoperative) upon arrival at the site due to an apparent power surge. Upon restart of the systems, the recirculation line was found to be frozen. The VSC and SVE systems were left off until spring thaw.

April 2019. The second quarter 2019 groundwater monitoring event was conducted on April 23 and 24, 2019. The monitoring event included measuring depth to groundwater and field intrinsic water quality parameters and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-2, G-3, G-4, G-5, G-7, and MW16-2 and Remediation Well RW16-1.

Based on the groundwater depth measurements, the average hydraulic gradient was determined to be flowing to the south at a bearing of 183 degrees with a gradient of 0.02 feet per foot. Groundwater flow direction and gradient was noted to be consistent with the historical results for this site.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the GCLs for the following monitoring wells:

- Monitoring Well G-3 –DRO, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene
- Monitoring Well MW16-2 –GRO, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene

Representative water samples were also collected from the domestic water systems serving the existing buildings on Lots 1&2, 4, and 5 in Runion Subdivision, and were analyzed for drinking water analyses and DRO. All the domestic drinking water wells were found to have no detectable levels of contaminants of concern.

During this monitoring event, the on-site groundwater remediation system, consisting of a VSC system was inspected to determine its operational condition. The VSC treatment system was found

to be off (in-operative) upon arrival at the site due to an apparent power surge. The VSC system was left off until such time the electrical supply system could be evaluated to determine the cause of the power outages to the VSC compressor.

July 2019. The third quarter 2019 groundwater monitoring event was conducted on July 16, 2019. The monitoring event included measuring depth to groundwater and field intrinsic water quality parameters and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. In addition, depth to groundwater was measured at Monitoring Well G-4 and Remediation Well RW16-1 and field intrinsic water quality parameters were measured at Remediation Well RW16-1.

Based on the groundwater depth measurements, the average hydraulic gradient was determined to be flowing to the south at a bearing of 300 degrees with a gradient of 0.011 feet per foot. Groundwater flow direction and gradient were noted to be inconsistent with the historical results for this site. The change in groundwater flow may be a result of elevation changes due to "frost jacking" of the well casings on one or more monitoring wells that were noted during the sampling event. The elevations of the wells will be resurveyed during the 4th quarter monitoring event.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the GCLs for the following monitoring wells:

- Monitoring Well G-1 –DRO
- Monitoring Well G-3 –DRO
- Monitoring Well MW16-2 –GRO

The VSC groundwater treatment system was found to be off (inoperative) upon arrival at the site due to an apparent power surge. On a subsequent site visit conducted during the week of July 22, the VSC compressor was activated and currently remains operational. On July 25, 2019, Stantec injected a chemox solution consisting of 55 pounds of Klozur One® via a pressurized pump system into the remediation well RW 16-1.

October 2019. The fourth quarter 2019 groundwater monitoring event was conducted on October 17, 2019. The monitoring event included measuring depth to groundwater and field intrinsic water quality parameters and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, G-7, and MW16-2. In addition, depth to groundwater was measured at Monitoring Well G-4.

Based on the groundwater depth measurements, the average hydraulic gradient was determined to be flowing to the southwest at a bearing of 221 degrees with a gradient of 0.022 feet per foot. Groundwater flow direction and gradient were noted to be consistent with the historical results for this site. The elevations of the wells were resurveyed during this monitoring event.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the GCLs for the following monitoring wells:

- Monitoring Well G-3: DRO
- Monitoring Well MW16-2: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene

The VSC groundwater treatment system was found to be operating within the normal range of performance with the production of 1 to 2 gallons per minute of recirculated groundwater with an air lift pump in the VSC well. Stantec injected a chemox solution consisting of 55 pounds of Klozur One® via gravity flow into the remediation well RW 16-1.

August 2020. This third quarter 2020 Monitoring Event Report was conducted on August 12, 2020 and included the following tasks: Measuring depth to groundwater, measuring field intrinsic water quality parameters, checking the operation of the in-situ remediation system, and collecting and analyzing groundwater samples from Monitoring Wells G-1, G-3, G-5, MW16-2, and remediation well RW16-1.

Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring wells:

• Remediation Well RW16-1: Ethylbenzene, xylenes, diesel range organics (DRO), and gasoline range organics (GRO)

Based on the groundwater depth measurements and the elevation survey of the tops of the monitoring wells, the average hydraulic gradient was determined to be flowing to the south-southeast at a bearing of 171 degrees with a gradient of 0.018 feet per foot. Groundwater flow direction and gradient were noted to be consistent with the historical results for this site.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system was inspected to determine operational condition. The VSC compressor that operates the air-lift well was not operating due to a recent power outage. The compressor was activated and the flow from the air-lift well was adjusted to provide a constant flow of approximately 1 to 2 gallons per minute of aerated groundwater that is discharged into MW-1 for recirculation.

October 2020. This fourth quarter 2020 Monitoring Event was conducted on October 2, 2020. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring well:

• Remediation Well RW16-1: Ethylbenzene, xylenes, diesel range organics (DRO), and gasoline range organics (GRO).

Analytical results by Test Method 545.1 (see Appendix E) showed no evidence of contamination for the on-site and nearby drinking water wells serving the following properties: Runion Subdivision Lots 1 and 2, Runion Subdivision Lot 4, and Runion Subdivision Lot 5.

Based on the groundwater depth measurements and the elevation survey of the tops of the monitoring wells, the average hydraulic gradient was determined to be flowing to the south-southwest at a bearing of 191 degrees with a gradient of 0.007 feet per foot. Groundwater flow direction and gradient were noted to be similar with the historical results but slightly lower gradient, as shown on the groundwater flow summary ("rose diagram") presented on Figure 2.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and providing adequate flow upon arrival on site.

On October 27, 2020 Stantec finished the installation and development of two 4-inch diameter chemox injection wells, RW 20-1 and RW 20-2, located north of Remediation Well RW16-1. On November 27, 2020 Stantec conducted the first 2020 injection of a chemox Klozur One® solution into the new chemox injection remediation wells, RW 20-1 and RW 20-2. The installation of the new wells will be described in a technical memorandum that will be submitted to ADEC.

March 2021. This first quarter 2021 monitoring event was conducted on March 31, 2021. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring/remediation wells:

- Remediation Well RW 16-1: Ethylbenzene, xylenes, DRO, and GRO. Benzene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs).
- Monitoring Well MW 16-2: GRO.

Due to limited data of groundwater elevations in measured wells and their linear positions across the site, the hydraulic gradient and flow direction of the groundwater table could not be calculated for this monitoring event.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational but the air-lift well was not checked to determine if the well was discharging to the recirculation/receiving well (MW G-1). The staff noted there was a significant ice plug at the top of MW G-1 which prevented access to the well.

May 2021. This first quarter 2021 monitoring event was conducted on March 31, 2021. Results of the analytical sampling showed petroleum hydrocarbon contaminant concentrations exceeded the groundwater cleanup levels (GCLs) for the following monitoring/remediation wells:

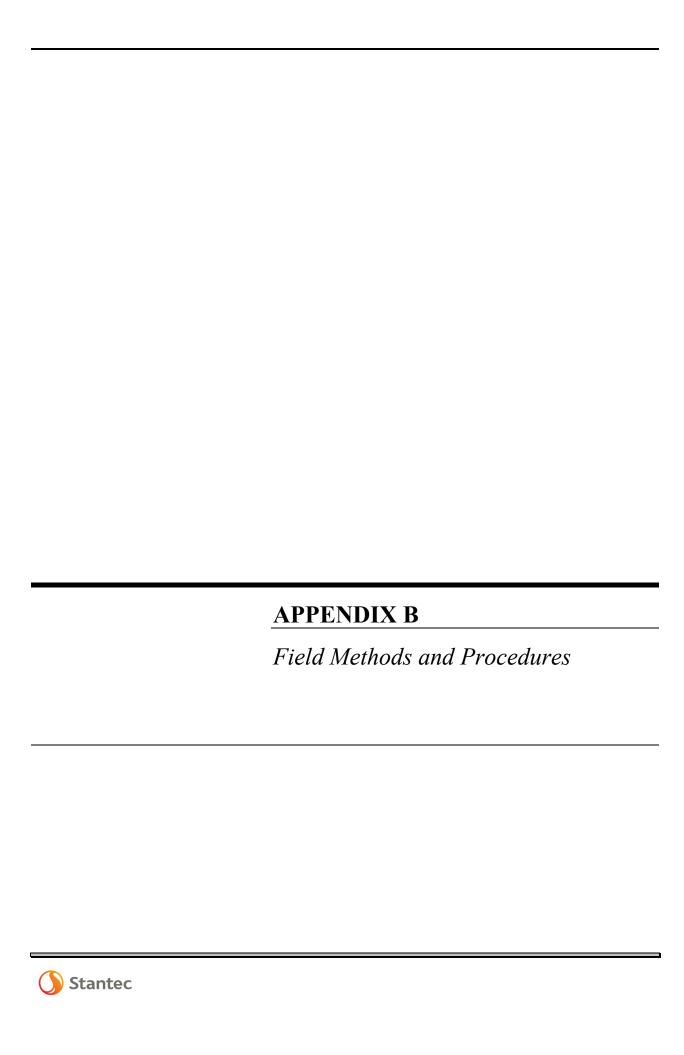
- Remediation Well RW 16-1: Ethylbenzene, xylenes, diesel range organics (DRO), gasoline range organics (GRO), 1,2,4 trimethylbenzene, and 1,3,5 trimethylbenzene. Benzene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs).
- Monitoring Well MW G-3: DRO.
- The naphthalene practical quantitation limits exceeded ADEC groundwater cleanup levels (GCLs) in all of the wells sampled

The hydraulic gradient across the site was found to be approximately 0.020 feet per foot directed toward the south at 182 degrees; however, the hydraulic flow of the groundwater does not take

into account the groundwater level in MW G-1 since this well receives influent pumped from the air-lift well described in the following paragraph. The groundwater gradient and flow direction are generally consistent with past monitoring events.

During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system that includes of an air-lift well (see Figure 3), was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and observed to be discharging to the recirculation/receiving well (MW G-1).

In addition, a chemox injection into the groundwater table via remediation wells RW 20-1 and RW 20-2 was completed during the monitoring event. A total of 220 pounds of Klozur One[®] and approximately 500 gallons of clean water from the store's water system was injected.



APPENDIX B – FIELD METHODS AND PROCEDURES

Speedway Store 5325 (former Tesoro 2 Go Mart #52)

The following table presents the proposed tasks for the Alaska Department of Environmental Conservation (ADEC) approved 2021 Corrective Action Work Plan. The scope of these tasks is based on the results and findings of the monitoring and remediation completed to date at this site.

2021 Work Plan Schedule for Speedway Store 5325 (Tesoro 2GoMart 52)

| v | Vork Plan Task 2021 | 1 st Quarter | 2 nd Quarter | 3 rd Quarter | 4 th Quarter |
|--------|--|----------------------------|----------------------------|----------------------------|----------------------------|
| | Monitoring Wells: G-1, G-3, G-5, G-7, RM 16-1, and 16-2 | V, G, D, S & I | V, G, D, S, & I | V, G, D, S & I | V, G, D, P, S & I |
| Task 1 | Monitoring Wells G-2 and G-4 | | | | V, G, D, P, S & I |
| | Drinking Water Wells serving Lots 1 and 2, Lot 4, and Lot 5 in Runion Subdivision | | | | D & E |
| Task 2 | O&M Air-Lift Well Remediation System | ✓ | ✓ | ✓ | ✓ |
| Task 3 | Chemical Oxidation Treatment | | ✓ | ✓ | ✓ |

Key:

AK - Alaska Test Method

B – Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B.

D – Diesel range organics by AK102.

E – Drinking water parameters by EPA Method 524.1.

EPA – U.S. Environmental Protection Agency

G – Gasoline range organics by AK101.

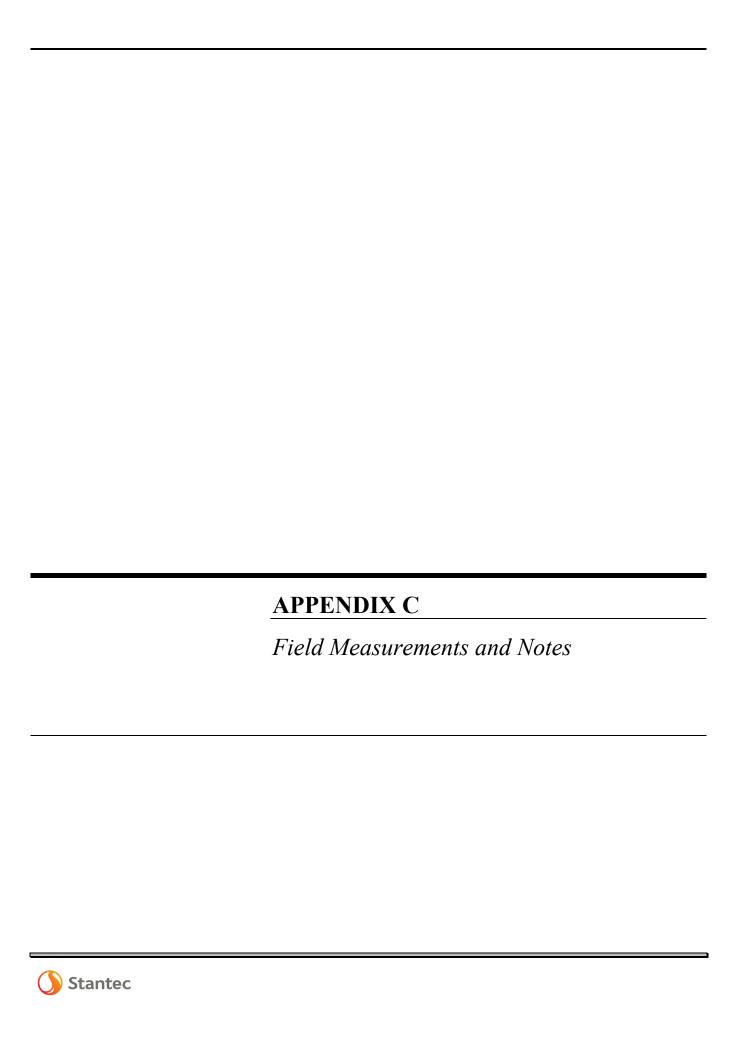
I – Indicators, parameters tested include: dissolved oxygen, specific conductance, oxygen-reduction potential, pH, and temperature.

O&M – operation and maintenance

- P Polynuclear aromatic hydrocarbons (PAHs), i.e., semi-volatile organic compounds, by EPA Test Method 8270D Selective Ion Monitoring.
- V Volatile organic compounds by EPA Test Method 8260C.

The Corrective Action Work Plan for the year 2021 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 and vapor 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 2021 Work Plan Schedule shown above.



Appendix C Field Measurements and Notes

Project: Speedway Store 5325 (former TNS #52)

Project Phase: 2Q21 GWM Project number: 185705363 Date: 5/18/2021

Samplers: John Marshall, Austin Badger

| Well ID | Volume Purged (gallons) | Sheen/ Odor (Y or N) | Temp. (°C) | рН | (Downhole) Dissolved Oxygen(mg/L) | ORP (mV) | Specific Conductance (µs/cm°C) | Top of Casing* (feet) | Depth to GW (feet btoc) | Total Depth (feet) | GW Elev. (feet datum) |
|---------|-------------------------------|----------------------------|---------------|-------|-----------------------------------|-------------|--------------------------------------|-----------------------------|-------------------------------|--------------------------|-----------------------------|
| G-1 | NA | N/N | 10.4 | 7.10 | 4.87 | 189.9 | 249.9 | 99.49 | 2.25 | - | 97.24 |
| G-2 | - | - | - | - | - | - | - | 99.26 | - | - | - |
| G-3 | 4.50 | Y/Y | 4.9 | 6.86 | 0.64 | 141.6 | 558.1 | 99.13 | 34.41 | 39.34 | 64.72 |
| G-4 | - | - | - | - | - | - | - | 98.29 | 35.8 | - | 62.49 |
| G-5 | 1.23 | N/N | 6.2 | 6.64 | 1.13 | 179.2 | 530.9 | 101.42 | 38.88 | 41.37 | 62.54 |
| G-7 | 1.41 | N/N | 5.9 | 6.30 | 10.03 | 168.1 | 284.2 | 99.57 | 38.61 | 41.49 | 60.96 |
| MW 16-2 | 2.30 | N/N | 4.9 | 7.38 | 6.49 | 161.8 | 546.3 | 99.23 | 32.93 | 37.59 | 66.3 |
| RW 16-1 | 1.50 | N/N | 5.4 | 10.27 | 13.06 | 138.0 | 656.8 | 99.45 | 33.32 | 39.65 | 66.13 |

^{*} G-1, G-3, G-4, G-5, G-7, MW 16-2, and RW16-1 surveyed on 10/17/19.

 $^{\circ}$ C - degree Celsius Y - Yes $\mu s/cm^{\circ}$ C - microsiemens per centimeter degrees Celsius N - No

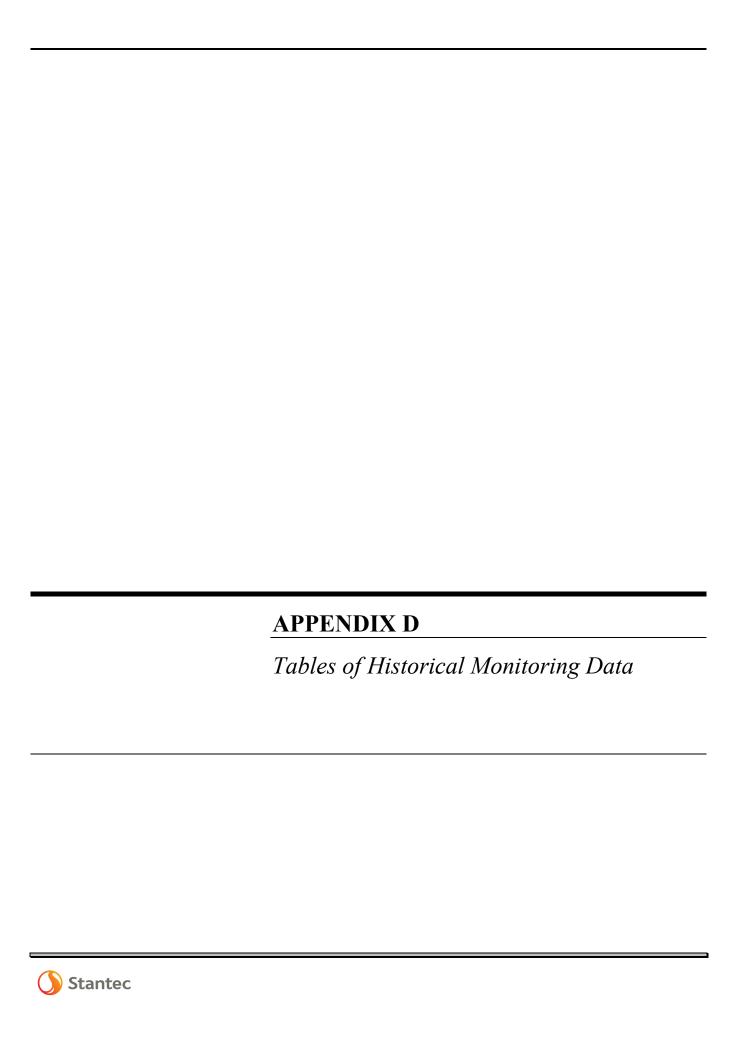
btoc - below top of casing N/A - Not applicable

datum - locally established benchmark at 100 feet

elev. - elevation
GW - groundwater
mg/L - milligrams per liter
ORP - oxidation reduction potential

| Instruments/methods used f | Model | |
|--|-------|----------|
| Static water level | Heron | H01L |
| Conductivity | YSI | Pro Plus |
| Dissolved Oxygen | YSI | Pro Solo |
| Temperature | YSI | Pro Solo |
| ORP | YSI | Pro Plus |
| рН | YSI | Pro Plus |
| Temp, pH, ORP, DO, Specific Conductance | YSI | Pro Plus |

| Well | Observations | Well Dia.(Inches) | Time | 8260C | AK101 | AK102 | 8270D-SIM | Sodium |
|--------|---|-------------------|-------|-------|-------|-------|-----------|--------|
| G-1 | Clear, grab sample | | | х | х | х | | х |
| 0 1 | | 2 | 12:56 | ^ | ^ | ^ | | ^ |
| G-2 | | 4 | - | | | | | |
| | Opaque, dark gray | | | | | | | |
| G-3 | | 4 | 13:50 | х | х | х | | Х |
| G-4 | | 2 | - | | | | | |
| G-5 | Transparent, light brown | 2 | 12:18 | х | х | х | | х |
| G-7 | Clear | 2 | 11:37 | х | х | х | | х |
| RW16-1 | Translucent, light brown, purged dry with a 15 minute | 2 | 15:40 | х | Х | х | | х |
| MW16-2 | Transparent, light brown | 2 | 14:35 | х | х | х | | х |
| Dup-01 | Dup of MW16-2 | | 14:35 | х | х | х | | х |



Appendix D Tables of Historical Monitoring Data

Monitoring Well G-1

| | Monitoring Weil G-1 | | | | | | | | | | |
|-----------|---------------------|------------|--------------|------------|----------|-----------|---------|--|--|--|--|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev | | | | |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) | | | | |
| 24-Apr-97 | 3.700 | 28.00 | 12.00 | 64.00 | 170.00 | 11.00 | 62.20 | | | | |
| 03-Sep-97 | 0.001 | 12.00 | 5.20 | 41.00 | 85.00 | 12.00 | 65.72 | | | | |
| 29-Dec-97 | 0.042 | 2.00 | 1.50 | 9.30 | 34.00 | 3.30 | 64.24 | | | | |
| 23-Apr-98 | 0.130 | 3.90 | 4.10 | 23.00 | 91.00 | 8.30 | 62.07 | | | | |
| 03-Aug-98 | 0.140 | 3.10 | 3.00 | 19.00 | 76.00 | 12.00 | 64.22 | | | | |
| 02-Nov-98 | 0.121 | 4.59 | 4.76 | 27.12 | 70.00 | 5.58 | 63.06 | | | | |
| 12-Feb-99 | 0.001 | 5.40 | 4.00 | 24.00 | 91.00 | 19.00 | 61.56 | | | | |
| 11-May-99 | Ice | Ice | Ice | Ice | Ice | Ice | NM | | | | |
| 30-Aug-99 | 0.001 | 3.10 | 5.60 | 36.00 | 190.00 | 10.00 | 63.46 | | | | |
| 29-Oct-99 | 0.001 | 0.026 | 0.035 | 0.21 | 0.89 | 0.45 | 66.59 | | | | |
| 08-Feb-00 | 0.001 | 3.30 | 4.40 | 26.00 | 10.00 | NT | 63.11 | | | | |
| 08-Jun-00 | 0.001 | 0.051 | 0.110 | 0.61 | 2.30 | 0.33 | 69.16 | | | | |
| | 0.001 | 0.500 | 0.92 | 5.00 | 19.00 | 0.57 | 66.72 | | | | |
| 30-Aug-00 | 0.001 | 1.20 | | | | | | | | | |
| 30-Nov-00 | | | 2.30 | 11.00 | 42.00 | 1.90 | 64.34 | | | | |
| 05-Feb-01 | 0.001 | 3.40 | 4.70 | 25.00 | 94.00 | 5.20 | 62.39 | | | | |
| 10-May-01 | 0.001 | 0.967 | 2.62 | 15.36 | 41.10 | 1.90 | 63.81 | | | | |
| 16-Aug-01 | 0.013 | 0.401 | 0.652 | 6.18 | 14.30 | 1.99 | 64.29 | | | | |
| 09-Nov-01 | 0.013 | 0.608 | 1.750 | 9.55 | 25.40 | 3.16 | 63.50 | | | | |
| 15-Feb-02 | 0.036 | 2.820 | 3.640 | 21.59 | 66.10 | 3.66 | 62.09 | | | | |
| 30-May-02 | 0.001 | 5.520 | 9.940 | 51.80 | 113.00 | 92.60 | 62.63 | | | | |
| 14-Aug-02 | 0.048 | 2.13 | 6.15 | 37.27 | 99.60 | 11.20 | 64.02 | | | | |
| 14-Nov-02 | 0.053 | 2.35 | 5.37 | 27.17 | 105 | 1.51 | 68.74 | | | | |
| 28-Jan-03 | U (0.025) | 0.462 | 1.04 | 7.55 | 24.8 | 3.83 | 65.52 | | | | |
| 17-Apr-03 | 0.217 | 1.15 | 4.55 | 26.9 | 117 | 4.7 | 63.23 | | | | |
| 17-Jul-03 | U (0.05) | 1.81 | 6 | 35.6 | 104 | 8.34 | 62.90 | | | | |
| 02-Oct-03 | 0.184 | 1.84 | 5.34 | 33.4 | 137 | U (0.32) | 62.80 | | | | |
| 20-Jan-04 | U (0.2) | 2.46 | 5.9 | 34.8 | 100 | 10.6 | 62.17 | | | | |
| 13-Apr-04 | U (0.1) | 1.49 | 6.37 | 37.5 | 109 | 6.97 | 63.76 | | | | |
| 20-Jul-04 | U (0.25) | 0.612 | 2.67 | 26.2 | 87.1 | 8.09 | 63.34 | | | | |
| 02-Sep-04 | U (0.05) | 0.38 | 2.6 | 18.4 | 48.5 | 4.94 | NM | | | | |
| 13-Oct-04 | U (0.005) | 0.615 | 0.232 | 1.87 | 5.98 | 1.9 | 65.10 | | | | |
| 28-Jan-05 | U (0.0005) | 0.121 | 0.0843 | 0.582 | 2.08 | 0.818 | NM | | | | |
| | | | | | | | | | | | |
| 11-Apr-05 | U (0.0005) | 0.069 | 0.0374 | 0.306 | 0.963 | 0.78 | 66.35 | | | | |
| 12-Aug-05 | U (0.0005) | U (0.0005) | U (0.0005) | 0.0031 | U (0.05) | 0.528 | 68.33 | | | | |
| 07-Oct-05 | U (0.0005) | 0.0103 | 0.0082 | 0.0713 | 0.24 | U (0.397) | 71.48 | | | | |
| 14-Feb-06 | U (0.0005) | 0.00831 | 0.0041 | 0.0482 | 0.141 | 0.676 | 64.20 | | | | |
| 18-Apr-06 | 0.0147 | 0.0874 | 0.962 | 6.64 | 24.8 | 8.37 | 63.30 | | | | |
| 06-Jul-06 | U (0.0005) | 0.00359 | 0.00289 | 0.0539 | 0.153 | U (0.394) | 63.46 | | | | |
| 26-Oct-06 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.391) | 76.53 | | | | |
| 02-Feb-07 | U (0.0005) | 0.21 | 0.257 | 1.95 | 7.79 | 1.04 | NM | | | | |
| 19-Apr-07 | U (0.0005) | 0.165 | 0.13 | 1.12 | 4.12 | 0.894 | 65.01 | | | | |
| 07-Aug-07 | U (0.0005) | 0.0536 | 0.0392 | 0.277 | 0.891 | 0.582 | 65.31 | | | | |
| 23-Oct-07 | U (0.0005) | U (0.0005) | U (0.0005) | 0.00566 | U (0.05) | U (0.424) | 64.23 | | | | |
| 22-Feb-08 | U (0.0005) | 0.0129 | 0.00712 | 0.068 | 0.229 | 0.479 | 62.02 | | | | |
| 15-Apr-08 | U (0.0005) | 0.0247 | 0.0137 | 0.116 | 0.45 | 0.667 | 62.01 | | | | |
| 27-Aug-08 | U (0.0005) | 0.00662 | 0.00397 | 0.0477 | 0.172 | U (0.4) | 63.33 | | | | |
| 22-Oct-08 | U (0.0005) | 0.032 | 0.0226 | 0.255 | 0.742 | U (0.427) | 64.14 | | | | |
| 05-Feb-09 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.463) | 62.48 | | | | |
| 08-Apr-09 | U (0.0005) | U (0.0005) | U (0.0005) | 0.0021 | U (0.05) | U (0.424) | 62.85 | | | | |
| 09-Jul-09 | U (0.0005) | 0.00137 | U (0.001) | 0.0188 | 0.106 | U (0.397) | 63.28 | | | | |
| 04-Nov-09 | U (0.0005) | 0.00856 | 0.00624 | 0.0639 | 0.100 | U (0.403) | 63.73 | | | | |
| 27-Jan-10 | U (0.0005) | 0.00636 | U (0.001) | 0.0039 | 0.0757 | 0.844 | 61.69 | | | | |
| | | | | | | | 63.28 | | | | |
| 27-May-10 | U (0.0005) | 0.0114 | 0.0117 | 0.0923 | 0.257 | 0.538 | | | | | |
| 19-Aug-10 | U (0.0005) | U (0.0005) | 0.000537 | 0.0189 | 0.184 | U (0.455) | 63.88 | | | | |
| 26-Oct-10 | U (0.0005) | 0.00441 | 0.00443 | 0.0574 | 0.181 | 0.993 | 68.65 | | | | |
| 17-Feb-11 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.491 | NM | | | | |
| 09-Jun-11 | U (0.0005) | 0.000913 | 0.000945 | 0.0425 | 0.143 | 0.635 | 61.52 | | | | |

Appendix D Tables of Historical Monitoring Data

Monitoring Well G-1

| | Donzono | Toluene | | Yulanaa | GRO | DRO | GW Elev |
|-----------|------------|------------|--------------|------------|------------|-----------|---------|
| Date | Benzene | | Ethylbenzene | Xylenes | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 20-Sep-11 | U (0.0005) | U (0.0005) | U (0.0005) | 0.00236 | U (0.05) | U (0.431) | 63.43 |
| 21-Oct-11 | U (0.0005) | 0.0121 | 0.0565 | 0.345 | 0.851 | U (0.417) | 71.53 |
| 17-Feb-12 | U (0.0005) | 0.00128 | 0.00235 | 0.0410 | 0.0787 | 0.712 | NM |
| 17-May-12 | U (0.0005) | 0.00572 | 0.0250 | 0.3390 | 0.941 | 0.596 | 70.40 |
| 05-Sep-12 | U (0.0005) | 0.00468 | 0.0139 | 0.1450 | 0.404 | U (0.424) | 73.90 |
| 30-Oct-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.439) | 76.36 |
| 30-Jan-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.461 | 65.97 |
| 10-May-13 | U (0.0005) | 0.000670 | 0.0140 | 0.166 | 0.248 | U (0.424) | 71.17 |
| 11-Oct-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.431) | 74.89 |
| 11-Dec-13 | U (0.0005) | U (0.001) | U (0.001) | U (0.003) | U (0.05) | U (0.403) | 75.74 |
| 19-Feb-14 | U (0.0005) | 0.000667 | U (0.0005) | 0.00281 | U (0.05) | U (0.403) | 70.68 |
| 01-May-14 | U (0.0005) | U (0.001) | 0.0038 | 0.02800 | 0.110 | U (0.41) | 66.53 |
| 30-Oct-14 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.41) | 64.40 |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | 62.86 |
| 15-May-15 | U (0.002) | U (0.002) | U (0.003) | U (0.002) | U (0.05) | 0.34 | 61.97 |
| 02-Sep-15 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | 0.150 | U (0.40) | 62.83 |
| 12-Nov-15 | U (0.0020) | U (0.0020) | U (0.0030) | U (0.0020) | U (0.050) | 0.63 | 64.35 |
| 28-Jan-16 | U (0.0020) | U (0.0020) | U (0.0030) | U (0.0020) | U (0.050) | 0.88 | 63.11 |
| 09-May-16 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (0.1) | U (0.41) | 66.37 |
| 24-Oct-16 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (0.1) | U (0.41) | 64.10 |
| 09-Dec-16 | U (0.002) | U (0.002) | U (0.003) | U (0.003) | U (0.05) | U (0.11) | 63.52 |
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | 62.98 |
| 25-Apr-17 | U (0.0002) | U (0.002) | U (0.003) | U (0.002) | U (1.0) | 0.99 | 64.05 |
| 20-Oct-17 | U (0.002) | U (0.002) | U (0.003) | U (0.003) | U (1.0) | 1.4 | 64.50 |
| 13-Feb-18 | U (0.002) | U (0.002) | U (0.003) | U (0.002) | U (1.0) | 0.88 | 62.88 |
| 17-Aug-18 | U (0.015) | U (0.01) | U (0.015) | U (0.015) | U (0.25) | 1.6 | 64.19 |
| 25-Oct-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 64.36 |
| 26-Feb-19 | U (0.003) | U (0.002) | 0.0066 | U (0.003) | U (0.25) | 0.51 | 62.74 |
| 24-Apr-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.25) | 72.81 |
| 16-Jul-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | 1.6 | 64.25 |
| 17-Oct-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | NM |
| 12-Aug-20 | U (0.001) | U (0.001) | U (0.001) | U (0.003) | U (0.100) | 0.242 | 93.50* |
| 02-Oct-20 | U (0.001) | U (0.001) | 0.000248 J | 0.00262 J | 0.0337 J | U (0.824) | 97.31* |
| 18-May-21 | U (0.001) | U (0.001) | U (0.001) | U (0.002) | 0.0152 B,J | 0.405 J | 97.24* |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

Appendix D Tables of Historical Monitoring Data

Monitoring Well G-2

| | | | Wonitoring | | | | |
|-----------|------------|------------|--------------|------------|----------|---------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 24-Apr-97 | U | 0.001 | U | 0.0023 | U | U | NM |
| 03-Sep-97 | U | 0.001 | U | 0.0021 | U | U | 66.46 |
| 29-Dec-97 | U | U | U | U | U | U | 65.30 |
| 23-Apr-98 | U | 0.002 | U | U | U | U | 62.94 |
| 03-Aug-98 | U | U | Ü | Ü | U | U | 64.10 |
| 02-Nov-98 | Ü | Ü | Ü | Ü | U | U | 63.99 |
| 12-Feb-99 | NT | NT | NT | NT | NT | NT | NM |
| 11-May-99 | U | U | U | U | U | U | 61.57 |
| 30-Aug-99 | Ü | Ü | Ü | Ü | Ü | 0.100 | 64.82 |
| 29-Oct-99 | U | Ü | Ü | Ü | U | U | 66.80 |
| 08-Feb-00 | NT | NT | NT NT | NT | NT | NT | 62.77 |
| 08-Jun-00 | U | U | U | 0.00 | U | U | 69.20 |
| | NT | NT | NT | NT | NT | NT | NM |
| 30-Aug-00 | | | | | | | |
| 30-Nov-00 | U | U | U | U | U | U | 65.20 |
| 05-Feb-01 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-01 | U | U | 0.005 | 0.021 | 0.114 | U | 64.07 |
| 09-Nov-01 | U | U | U | U | U | U | 63.28 |
| 15-Feb-02 | NT | NT | NT | NT | NT | NT | NM |
| 30-May-02 | NT | NT | NT | NT | NT | NT | NM |
| 14-Aug-02 | NT | NT | NT | NT | NT | NT | 65.91 |
| 14-Nov-02 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-03 | NT | NT | NT | NT | NT | NT | NM |
| 17-Apr-03 | NT | NT | NT | NT | NT | NT | 64.19 |
| 17-Jul-03 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-03 | NT | NT | NT | NT | NT | NT | NM |
| 20-Jan-04 | NT | NT | NT | NT | NT | NT | NM |
| 13-Apr-04 | U (0.0005) | U (0.0005) | 0.000557 | 0.00745 | U (0.05) | U (0.5) | 65.96 |
| 20-Jul-04 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-05 | NT | NT | NT | NT | NT | NT | NM |
| 11-Apr-05 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.421 | 65.96 |
| 12-Aug-05 | NT | NT | NT | NT | NT | NT | NM |
| 07-Oct-05 | NT | NT | NT | NT | NT | NT | NM |
| 14-Feb-06 | NT | NT | NT | NT | NT | NT | NM |
| | NT | NT | NT | NT | NT | NT | |
| 18-Apr-06 | | | | | | | 64.58 |
| 06-Jul-06 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-06 | NT | NT | NT | NT | NT | NT | NM |
| 02-Feb-07 | NT | NT | NT | NT | NT | NT | NM |
| 19-Apr-07 | NT | NT | NT | NT | NT | NT | NM |
| 07-Aug-07 | NT | NT | NT | NT | NT | NT | NM |
| 23-Oct-07 | NT | NT | NT | NT | NT | NT | NM |
| 22-Feb-08 | NT | NT | NT | NT | NT | NT | NM |
| 15-Apr-08 | NT | NT | NT | NT | NT | NT | 62.74 |
| 27-Aug-08 | NT | NT | NT | NT | NT | NT | NM |
| 22-Oct-08 | NT | NT | NT | NT | NT | NT | NM |
| 05-Feb-09 | NT | NT | NT | NT | NT | NT | NM |
| 08-Apr-09 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jul-09 | NT | NT | NT | NT | NT | NT | NM |
| 04-Nov-09 | NT | NT | NT | NT | NT | NT | NM |
| 27-Jan-10 | NT | NT | NT | NT | NT | NT | NM |
| 27-May-10 | NT | NT | NT | NT | NT | NT | NM |
| 19-Aug-10 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-10 | NT | NT | NT | NT | NT | NT | NM |
| 17-Feb-11 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jun-11 | NT | NT | NT | NT | NT | NT | NM |
| 20-Sep-11 | NT | NT | NT | NT | NT | NT | NM |
| | | | | | | | |
| 21-Oct-11 | NT | NT | NT | NT | NT | NT | NM |

| | Monitoring Well G-2 | | | | | | | | | | |
|-----------|---------------------|------------|--------------|------------|-----------|-----------|---------|--|--|--|--|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev | | | | |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) | | | | |
| 17-Feb-12 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-May-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.410) | 65.11 | | | | |
| 05-Sep-12 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 30-Oct-12 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 30-Jan-13 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 10-May-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.446) | 67.42 | | | | |
| 11-Oct-13 | NT | NT | NT | NT | NT | NT | 74.73 | | | | |
| 11-Dec-13 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 19-Feb-14 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 01-May-14 | U (0.0005) | U (0.001) | U (0.001) | U (0.001) | U (0.05) | U (0.40) | 66.19 | | | | |
| 30-Oct-14 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 15-May-15 | NT | NT | NT | NT | NT | NT | DRY | | | | |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 12-Nov-15 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 28-Jan-16 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 09-May-16 | NT | NT | NT | NT | NT | NT | DRY | | | | |
| 24-Oct-16 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 09-Dec-16 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 25-Apr-17 | U (0.0002) | U (0.002) | U (0.003) | U (0.002) | U (1.0) | U (0.11) | 64.07 | | | | |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | 65.23 | | | | |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-Aug-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 64.74 | | | | |
| 25-Oct-18 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 26-Feb-29 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 24-Apr-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.27) | 64.70 | | | | |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 02-Oct-20 | U (0.001) | U (0.001) | U (0.001) | U (0.002) | U (0.100) | U (0.808) | 67.83 | | | | |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA | | | | |

| | | | Monitoring | | | | |
|-----------|------------|------------|--------------|------------|----------|--------------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 24-Apr-97 | 0.001 | 7.60 | 5.40 | 26.00 | 70.00 | 5.10 | 64.02 |
| 03-Sep-97 | 0.080 | 2.00 | 1.40 | 7.70 | 21.00 | 7.50 | 64.72 |
| 29-Dec-97 | 0.057 | 0.43 | 1.50 | 4.70 | 19.00 | 3.50 | 63.33 |
| 23-Apr-98 | 0.001 | 0.49 | 3.10 | 10.00 | 40.00 | 6.90 | 61.11 |
| 03-Aug-98 | 0.140 | 0.45 | 3.30 | 10.00 | 39.00 | 2.00 | 62.23 |
| 02-Nov-98 | 0.001 | 0.58 | 3.00 | 10.27 | 30.00 | 2.43 | 62.07 |
| 12-Feb-99 | 0.001 | 0.52 | 3.90 | 12.00 | 48.00 | 8.00 | 60.58 |
| 11-May-99 | 0.051 | 0.12 | 1.02 | 4.16 | 14.00 | 17.60 | 60.43 |
| 30-Aug-99 | 0.001 | 0.12 | 1.60 | 3.90 | 19.00 | 4.60 | 62.48 |
| 29-Oct-99 | 0.0018 | 0.0016 | 0.017 | 0.073 | 0.32 | 0.92 | 66.44 |
| 08-Feb-00 | 0.007 | 0.0380 | 0.470 | 0.890 | 4.00 | 0.00 | 62.56 |
| 08-Jun-00 | 0.001 | U | 0.003 | 0.01 | 0.00 | 1.10 | 69.16 |
| 30-Aug-00 | 0.001 | 0.0018 | 0.004 | 0.03 | 0.12 | 0.51 | 66.67 |
| 30-Nov-00 | 0.006 | 0.0320 | 0.320 | 0.68 | 2.90 | 5.50 | 63.83 |
| 05-Feb-01 | 0.006 | 0.0320 | 0.460 | 0.90 | 4.30 | 5.90 | 61.72 |
| 10-May-01 | 0.001 | U U.1400 | 0.003 | 0.009 | 0.00 | 12.80 | 62.84 |
| | 0.005 | _ | | | 2.76 | | |
| 16-Aug-01 | 0.005 | 0.0613 | 0.390 | 0.856 | 0.57 | 8.75 1.57 | 63.44 |
| 09-Nov-01 | | 0.0828 | 0.019 | 0.103 | | | 62.59 |
| 15-Feb-02 | 0.008 | 0.1190 | 0.049 | 0.156 | 0.87 | 70.70 | 61.16 |
| 30-May-02 | 0.021 | 0.0809 | 0.200 | 0.605 | 2.25 | 34.20 | 62.13 |
| 14-Aug-02 | 0.029 | 0.1470 | 0.488 | 1.490 | 5.44 | 5.68 | 63.37 |
| 14-Nov-02 | 0.0658 | 0.186 | 0.804 | 1.9704 | 8.97 | 4.08 | 68.85 |
| 28-Jan-03 | 0.0571 | 0.0914 | 0.319 | 0.644 | 2.93 | 7.89 | 64.85 |
| 17-Apr-03 | 0.00288 | 0.0274 | 0.0282 | 0.082 | 0.585 | 4.58 | 62.58 |
| 17-Jul-03 | U (0.0005) | 0.0165 | 0.0107 | 0.0327 | 0.233 | 7.48 | 62.29 |
| 02-Oct-03 | U (0.0005) | 0.00224 | 0.000626 | 0.00232 | U (0.08) | 1.14 | 62.25 |
| 20-Jan-04 | U (0.0005) | 0.0439 | 0.00399 | 0.0127 | 0.144 | 1.83 | 61.39 |
| 13-Apr-04 | U (0.005) | 0.0261 | 0.0472 | 0.148 | 0.855 | 2.89 | 62.78 |
| 20-Jul-04 | U (0.0005) | 0.0305 | 0.0028 | 0.00853 | 0.164 | 19.4 | 63.86 |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM |
| 13-Oct-04 | U (0.0005) | 0.000537 | U (0.0005) | U (0.001) | U (0.08) | 2.11 | 64.04 |
| 28-Jan-05 | 0.000857 | 0.0293 | 0.00078 | 0.0038 | 0.0973 | 3.65 | 64.60 |
| 11-Apr-05 | 0.00311 | 0.0113 | 0.00232 | 0.0253 | 0.127 | 2.58 | 63.60 |
| 12-Aug-05 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 1.14 | 68.30 |
| 07-Oct-05 | U (0.0005) | 0.00234 | U (0.0005) | U (0.0015) | U (0.05) | 2.85 | 71.45 |
| 14-Feb-06 | 0.000874 | 0.076 | 0.00129 | 0.0072 | 0.215 | 3 | 63.13 |
| 18-Apr-06 | U (0.0005) | 0.0614 | 0.000884 | 0.00356 | 0.181 | 7.64 | 62.66 |
| 06-Jul-06 | U (0.0005) | 0.00252 | U (0.0005) | U (0.0015) | U (0.05) | 3.17 | 62.79 |
| 26-Oct-06 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 1.06 | 76.42 |
| 02-Feb-07 | 0.00528 | 0.0513 | 0.0017 | 0.0154 | 0.236 | 2.27 | NM |
| 19-Apr-07 | NT | NT | NT | NT | NT | NT | NM |
| 07-Aug-07 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.841 | 62.24 |
| 23-Oct-07 | 0.00502 | 0.0358 | 0.02 | 0.0319 | 0.322 | 1.41 | 62.23 |
| 21-Feb-08 | 0.00517 | 0.0307 | 0.067 | 0.144 | 0.771 | 0.93 | 60.73 |
| 15-Apr-08 | 0.00562 | 0.04 | 0.135 | 0.211 | 1.44 | 0.604 | 60.72 |
| 27-Aug-08 | 0.0138 | 0.436 | 0.842 | 2.88 | 7.26 | 0.978 | 62.69 |
| 22-Oct-08 | 0.0124 | 0.514 | 0.96 | 3.57 | 9.55 | 0.83 | 62.80 |
| 05-Feb-09 | U (0.01) | 0.234 | 1.17 | 4.73 | 15.7 | 0.909 | 61.40 |
| 19-Feb-09 | 0.0071 | 0.0493 | 0.0834 | 0.241 | 1.04 | 9.47 | NM |
| 08-Apr-09 | U (0.005) | 0.0702 | 0.0834 | 1.43 | 4.2 | 1.51 | 60.84 |
| 09-Jul-09 | U (0.005) | 0.0702 | 1.12 | 4.32 | 3.01 | 1.81 | 61.93 |
| 04-Nov-09 | | | | 2.55 | 12.7 | | 61.69 |
| | U (0.0005) | 0.101 | 0.579 | | | U (0.400) | |
| 27-Jan-10 | U (0.0005) | 0.0157 | 0.337 | 2.01 | 6.47 | 1.12 | 60.29 |
| 27-May-10 | U (0.0005) | 0.000748 | 0.0379 | 0.137 | 0.936 | 1.01 | 61.19 |
| 19-Aug-10 | U (0.0005) | 0.000756 | 0.0336 | 0.120 | 0.933 | U (0.403) | 62.19 |
| 26-Oct-10 | U (0.0025) | U (0.0025) | 0.153 | 0.643 | 4.62 | U (0.397) | 61.98 |
| 17-Feb-11 | U (0.0005) | 0.00112 | 0.0647 | 0.222 | 2.11 | 4.10 | 60.36 |

| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
|------------------------|------------|------------|--------------|------------|--------------|-----------|-------------|
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 09-Jun-11 | 0.000536 | 0.00188 | 0.0666 | 0.232 | 2.26 | U (0.446) | 60.45 |
| 20-Sep-11 | U (0.0005) | 0.00188 | 0.0235 | 0.0794 | 1.69 | U (0.446) | 62.17 |
| 21-Oct-11 | 0.00107 | 0.000718 | 0.0235 | 0.105 | 2.51 | U (0.417) | 61.76 |
| 17-Feb-12 | 0.00107 | 0.00126 | | 0.105 | | 1.15 | 60.66 |
| 17-Feb-12 17-May-12 | 0.000809 | 0.000792 | 0.0536 | 0.131 | 2.62 5.91 | 0.560 | 62.88 |
| | | | 0.0899 | 0.303 | | | 02.00 NM |
| 05-Sep-12 | U (0.0005) | U (0.0005) | 0.166 | | 0.710 | U (0.424) | |
| 30-Oct-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.431) | 76.33 |
| 30-Jan-13 | U (0.0005) | 0.00364 | 0.0182 | 0.056 | 0.818 | 0.670 | 65.89 |
| 10-May-13 | 0.00153 | 0.00151 | 0.0554 | 0.167 | 1.35 | U (0.439) | 65.55 |
| 11-Oct-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.391) | 74.62 |
| 11-Dec-13 | U (0.0005) | U (0.001) | U (0.001) | U (0.003) | U (0.05) | U (0.417) | 75.70 |
| 19-Feb-14 | U (0.0005) | U (0.0005) | 0.00066 | 0.00177 | U (0.05) | 0.928 | 70.63 |
| 01-May-14 | U (0.0005) | 0.001 | 0.0066 | 0.017 | 0.300 | 4.80 | 65.77 |
| 30-Oct-14 | U (0.0005) | U (0.0005) | 0.0097 | 0.023 | 0.460 | 1.00 | 63.61 |
| 11-Feb-15 | 0.002 | 0.0011 | 0.0870 | 0.240 | 4.80 | 12.00 | 61.31 |
| 15-May-15 | U (0.002) | U (0.002) | 0.0078 | 0.015 | 2.6 | 1.3 | 60.81 |
| 02-Sep-15 | U (0.0002) | U (0.001) | 0.0079 | 0.0064 | 1.1 | U (0.40) | 61.30 |
| 12-Nov-15 | U (0.0020) | U (0.0020) | 0.036 | 0.069 | 3.2 | 0.26 | 63.19 |
| 28-Jan-16 | U (0.0020) | U (0.0020) | 0.027 | 0.052 | 3.2 | 0.76 | 61.95 |
| 09-May-16 | 0.0002 | U (0.001) | 0.0086 | 0.012 | 1.6 | 0.58 | 62.85 |
| 24-Oct-16 | 0.0002 | U (0.001) | 0.0017 | 0.0036 | 4.4 | 0.37 | 62.53 |
| 09-Dec-16 | U (0.002) | U (0.002) | 0.002 | 0.0038 | 4.2 | 0.48 | 61.97 |
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | 61.12 |
| 25-Apr-17 | U (0.0002) | U (0.002) | 0.0089 | 0.016 | 2.3 | 4.7 | 62.36 |
| 20-Oct-17 | U (0.002) | U (0.002) | U (0.003) | U(0.003) | U(1.0) | 3 | 63.07 |
| 13-Feb-18 | U (0.002) | 0.0054 | U (0.003) | 0.0047 | U (1.0) | 6.7 | 61.76 |
| 17-Aug-18 | U (0.003) | 0.00091 J | 0.0047 | 0.00938 J | 0.99 | 3.2 | 62.78 |
| 25-Oct-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | 0.37 | 2.3 | 63.06 |
| 26-Feb-19 | U (0.003) | U (0.002) | 0.006 | 0.013 | 1.7 | 8.5 | 61.46 |
| 24-Apr-19 | U (0.003) | U (0.002) | 0.0034 | 0.0068 | 1.6 | 7.7 | 62.48 |
| 16-Jul-19 | U (0.003) | U (0.002) | 0.0033 | 0.006 | 1.3 | 4.6 | 63.05 |
| 17-Oct-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | 0.58 | 3.6 H | 65.53 |
| 12-Aug-20 | U (0.001) | U (0.001) | 0.000754 | 0.00159 | 0.173 | 0.339 | 67.25 |
| 02-Oct-20 | U (0.001) | U (0.001) | 0.000143 | U (0.002) | 0.12 | 1.45 | 66.93 |
| 03-Mar-21 | U (0.001) | U (0.001) | 0.00091 J | 0.00086 J | 1.01 | 1.47 | 62.99 |
| 18-May-21 | U (0.001) | U (0.001) | U (0.001) | U (0.002) | 1.36 | 8.48 | 64.72 |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

| | | | 1 | | | | |
|------------------------|------------------|------------------|------------------|------------------|----------------|-----------------|----------------------------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 24-Apr-97 | U | 0.001 | U | 0.0048 | U | NT | NM |
| 03-Sep-97 | U | U | U | U | U | 0.32 | 63.34 |
| 29-Dec-97 | U | U | U | U | U | U | 62.44 |
| 23-Apr-98 | U | U | U | U | U | U | 58.99 |
| 03-Aug-98 | U | U | U | U | U | U | 61.02 |
| 02-Nov-98 | U | 0.0012 | U | 0.0011 | U | U | 60.65 |
| 12-Feb-99 | U | U | U | U | U | 0.36 | 57.89 |
| 10-May-99 | U | U | 0.0065 | 0.0279 | 0.091 | 1.98 | 57.53 |
| 30-Aug-99 | U | U | U | U | U | U | 60.64 |
| 29-Oct-99 | U | U | U | U | U | U | 66.09 |
| 08-Feb-00 | NT | NT | NT | NT | NT | NT | NM |
| 08-Jun-00 | U | U | U | U | U | 0.300 | 68.92 |
| 30-Aug-00 | NT | NT | NT | NT | NT | NT | NM |
| 30-Nov-00 | U | U | U | U | U | U | 63.27 |
| 05-Feb-01 | NT | NT | NT | NT | NT | NT | 60.65 |
| 10-May-01 | U | U | U | 0.002 | U | U | 61.25 |
| 09-Nov-01 | Ü | Ü | Ü | U | Ü | Ü | 61.22 |
| 15-Feb-02 | NT | NT | NT | NT | NT | NT | 58.19 |
| 30-May-02 | U | 0.003 | U | U | U | U | 59.63 |
| 14-Aug-02 | NT | NT | NT | NT | NT | NT | 61.84 |
| 14-Nov-02 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-03 | NT | NT | NT | NT | NT | NT | 64.13 |
| 17-Apr-03 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.001) | U (0.08) | U (0.25) | 61.10 |
| 17-Jul-03 | NT | NT | NT | NT | NT | NT | 60.82 |
| 02-Oct-03 | NT | NT | NT | NT | NT | NT | 60.39 |
| 20-Jan-04 | NT | NT | NT | NT | NT | NT | 58.80 |
| 13-Apr-04 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.5) | 59.58 |
| 20-Jul-04 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-05 | NT | NT | NT | NT | NT | NT | 63.32 |
| 11-Apr-05 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 1.67 | 62.06 |
| 12-Aug-05 | NT | NT | NT | NT | NT | NT | NM |
| 07-Oct-05 | NT | NT | NT | NT | NT | NT | 71.21 |
| 14-Feb-06 | NT | NT | NT | NT | NT | NT | 62.63 |
| 18-Apr-06 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.407) | 61.01 |
| 06-Jul-06 | NT | NT | NT | NT | NT | NT | 61.46 |
| | NT NT | NT | NT NT | NT | NT NT | NT | 76.18 |
| 26-Oct-06 | NT | NT | NT NT | NT | NT NT | NT NT | 70.16 NM |
| 02-Feb-07 19-Apr-07 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.431) | 62.50 |
| 07-Apr-07 | NT | NT | NT | NT | NT | NT | NM |
| | NT | NT | NT | NT | NT | NT | NM |
| 23-Oct-07 22-Feb-08 | NT NT | NT | NT NT | NT | NT | NT NT | NM |
| 22-Feb-08 15-Apr-08 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.436 | 58.07 |
| | 0 (0.0005) NT | NT | 0 (0.0005) NT | 0 (0.0015) NT | 0 (0.05) NT | 0.436 NT | |
| 27-Aug-08 | NT NT | NT NT | NT NT | NT NT | NT NT | | 61.28 |
| 22-Oct-08 | | NT NT | | | | NT NT | 61.54 |
| 05-Feb-09 | NT | | NT | NT | NT | NT U (0.463) | 59.07 NM |
| 19-Feb-09 | U (0.0005) NT | U (0.0005) NT | U (0.0005) NT | U (0.0015) NT | U (0.05) NT | 0 (0.463) NT | 57.24 |
| 08-Apr-09 | NT NT | NT | NT NT | NT | NT NT | NT | 57.2 4 59.94 |
| 09-Jul-09 | | | | | | NT NT | |
| 04-Nov-09 | NT | NT | NT NT | NT | NT | | NM 56.92 |
| 27-Jan-10 | NT | NT | | NT | NT | NT | 56.82 |
| 27-May-10 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.431) | 57.47 |
| 19-Aug-10 | NT | NT | NT | NT | NT | NT | 59.04 |
| 26-Oct-10 | NT | NT | NT | NT | NT | NT | 59.95 |
| 17-Feb-11 | NT | NT | NT | NT | NT | NT | 56.83 |
| 09-Jun-11 20-Sep-11 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.424) | 57.29 |
| | NT | NT | NT | TN | NT | NT | 59.96 |

| | Monitoring Well G-4 | | | | | | | | | | |
|-----------|---------------------|------------|--------------|------------|-----------|-----------|---------|--|--|--|--|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev | | | | |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) | | | | |
| 21-Oct-11 | NT | NT | NT | NT | NT | NT | 59.90 | | | | |
| 17-Feb-12 | NT | NT | NT | NT | NT | NT | 57.21 | | | | |
| 17-May-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.819 | 60.90 | | | | |
| 05-Sep-12 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 30-Oct-12 | NT | NT | NT | NT | NT | NT | 76.02 | | | | |
| 30-Jan-13 | NT | NT | NT | NT | NT | NT | 65.81 | | | | |
| 10-May-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.463) | 64.66 | | | | |
| 11-Oct-13 | NT | NT | NT | NT | NT | NT | 74.35 | | | | |
| 11-Dec-13 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 19-Feb-14 | NT | NT | NT | NT | NT | NT | 70.46 | | | | |
| 01-May-14 | U (0.0005) | U (0.001) | U (0.001) | U (0.001) | U (0.05) | U (0.42) | 65.39 | | | | |
| 30-Oct-14 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 15-May-15 | U (0.002) | U (0.002) | U (0.003) | U (0.002) | U (0.05) | U (0.23) | 57.78 | | | | |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 12-Nov-15 | NT | NT | NT | NT | NT | NT | 61.97 | | | | |
| 28-Jan-16 | NT | NT | NT | NT | NT | NT | 60.14 | | | | |
| 09-May-16 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (0.1) | U (0.42) | 60.67 | | | | |
| 24-Oct-16 | NT | NT | NT | NT | NT | NT | 60.7 | | | | |
| 09-Dec-16 | NT | NT | NT | NT | NT | NT | 59.94 | | | | |
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | 57.36 | | | | |
| 25-Apr-17 | U (0.0002) | U (0.002) | U (0.003) | U (0.002) | U (1.0) | U (0.11) | 58.77 | | | | |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | 61.02 | | | | |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | 59.22 | | | | |
| 17-Aug-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 60.90 | | | | |
| 25-Oct-18 | NT | NT | NT | NT | NT | NT | 61.56 | | | | |
| 26-Feb-19 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 24-Apr-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.28) | 60.29 | | | | |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | 61.15 | | | | |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | 63.33 | | | | |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 02-Oct-20 | U (0.001) | U (0.001) | U (0.001) | U (0.002) | U (0.100) | 0.281 J | 66.26 | | | | |
| 18-May-21 | NC | NC | NC | NC | NC | NC | 62.49 | | | | |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA | | | | |

| | | | Monitoring | <u> </u> | | | |
|------------------------|----------------------------|----------------------|-----------------|-----------------------|-------------|-------------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 24-Apr-97 | 0.032 | 0.56 | 0.91 | 5.20 | 17.00 | | 58.34 |
| 03-Sep-97 | 0.001 | U | 1.10 | 5.40 | 25.00 | 4.80 | 63.30 |
| 29-Dec-97 | 0.065 | 0.15 | 1.00 | 4.70 | 19.00 | 4.00 | 62.25 |
| 23-Apr-98 | 0.048 | 0.068 | 0.38 | 1.70 | 11.00 | 2.70 | 59.07 |
| 03-Aug-98 | 0.001 | U | U | 0.0019 | 0.00 | 0.27 | 60.74 |
| 02-Nov-98 | 0.026 | 0.01 | 0.12 | 0.27 | 3.70 | 1.82 | 60.43 |
| 12-Feb-99 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-99 | NT | NT | NT | NT | NT | NT | NM |
| 31-Aug-99 | 0.011 | 0.029 | 0.340 | 0.900 | 4.60 | 0.950 | 60.55 |
| 29-Oct-99 | 0.024 | 0.006 | 0.066 | 0.110 | 2.70 | 0.40 | 66.08 |
| 08-Feb-00 | 0.008 | 0.006 | 0.053 | 0.100 | 4.20 | NT | 61.10 |
| 08-Jun-00 | 0.001 | U | 0.023 | 0.04 | 0.61 | 0.00 | 69.02 |
| 30-Aug-00 | 0.001 | Ü | 0.004 | 0.008 | 0.220 | 0.001 | 66.58 |
| 30-Nov-00 | 0.012 | 0.006 | 0.079 | 0.140 | 3.900 | 0.490 | 63.26 |
| 05-Feb-01 | 0.015 | 0.008 | 0.016 | 0.026 | 2.100 | 0.320 | 60.47 |
| 10-May-01 | 0.007 | U | 0.061 | 0.100 | 1.620 | 0.001 | 61.12 |
| 16-Aug-01 | 0.031 | 0.011 | 0.042 | 0.065 | 2.740 | U U | 62.11 |
| 09-Nov-01 | 0.004 | U.011 | U.042 | 0.003 | 0.258 | U | 61.05 |
| 15-Feb-02 | NT | NT | NT | NT | 0.236 NT | NT | NM |
| 30-May-02 | NT | NT | NT | NT | NT | NT | NM |
| 14-Aug-02 | 0.013 | 0.003 | 0.145 | 0.182 | 2.530 | 0.552 | 61.71 |
| 14-Aug-02 14-Nov-02 | 0.00257 | U (0.002) | U (0.002) | U (0.002) | 0.137 | U (0.5) | 68.57 |
| 28-Jan-03 | 0.064 | U (0.02) | 0.0733 | 0.0667 | 2.4 | 1.2 | 64.08 |
| | 0.0181 | 0.002 | 0.0834 | | 3.14 | 0.418 | 61.01 |
| 17-Apr-03 | | | | 0.186 | 2.72 | | 60.80 |
| 17-Jul-03 02-Oct-03 | U (0.005) 0.0125 | U (0.005) 0.00577 | 0.0666 0.127 | 0.184 0.217 | 4.33 | U (0.5) | |
| | | | | | 4.33 NT | U (0.32) | 60.51 |
| 20-Jan-04 | NT | NT | NT NT | NT | | NT | NM |
| 13-Apr-04 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | 0.0539 | U (0.5) | 59.99 |
| 20-Jul-04 | 0.00351 | U (0.0005) | 0.0561 | 0.0239 | 1.7 | 0.484 | 60.95 |
| 02-Sep-04 | NT | NT | NT | NT 0.440 | NT | NT 0.442 | NM |
| 13-Oct-04 | 0.009 | 0.00155 | 0.0893 | 0.113 | 2.71 | 0.443 | 57.72 |
| 28-Jan-05 | 0.0011 | 0.00198 | 0.0183 | 0.02 | 1.35 | 0.45 | 63.15 |
| 11-Apr-05 | U (0.0005) | 0.000845 | 0.0138 | 0.0117 | 1.06 | U (0.391) | 61.89 |
| 12-Aug-05 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.41) | 68.20 |
| 07-Oct-05 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.407) | 71.31 |
| 14-Feb-06 | 0.00186 | 0.00136 | 0.0163 | 0.0066 | 1.34 | 0.475 | 62.43 |
| 18-Apr-06 | 0.0018 | 0.000663 | 0.153 | 0.24 | 2.04 | 0.693 | 62.00 |
| 06-Jul-06 | 0.00141 | 0.00158 | 0.0932 | 0.103 | 1.14 | U (0.41) | 61.34 |
| 26-Oct-06 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.41) | 76.31 |
| 02-Feb-07 | NT | NT | NT | NT | NT | NT | NM |
| 19-Apr-07 | U (0.0005) | U (0.0005) | 0.0163 | 0.0227 | 0.774 | U (0.435) | 62.68 |
| 07-Aug-07 | 0.00147 | U (0.0005) | 0.00611 | 0.007 | 0.529 | U (0.407) | 60.94 |
| 23-Oct-07 | U (0.0005) | U (0.0005) | 0.00534 | 0.00603 | 0.4 | U (0.446) | 60.75 |
| 21-Feb-08 | 0.00231 | 0.000739 | 0.0592 | 0.0523 | 1.97 | U (0.417) | 58.73 |
| 15-Apr-08 | NT | NT | NT | NT | NT | NT | 58.39 |
| 27-Aug-08 | U (0.0005) | U (0.0005) | 0.0203 | 0.0243 | 0.506 | U (0.4) | 61.12 |
| 22-Oct-08 | U (0.0005) | U (0.0005) | 0.00629 | 0.00512 | 0.35 | U (0.420) | 61.35 |
| 05-Feb-09 | 0.00093 | 0.00211 | 0.0898 | 0.101 | 2.02 | 0.59 | 59.36 |
| 19-Feb-09 | 0.00249 | 0.00283 | 0.129 | 0.262 | 1.96 | 0.689 | NM |
| 08-Apr-09 | 0.0058 | 0.169 | 0.26 | 0.634 | 3.84 | U (0.435) | 57.51 |
| 09-Jul-09 | 0.00267 | 0.00452 | 0.184 | 0.284 | 2.51 | U (0.410) | 60.05 |
| 04-Nov-09 | 0.00365 | 0.00739 | 0.292 | 0.645 | 4.13 | U (0.397) | 59.31 |
| 27-Jan-10 | 0.00385 | 0.0313 | 0.499 | 1.51 | 7.17 | U (0.427) | 57.11 |
| 27-May-10 | 0.0022 | 0.0218 | 0.406 | 1.22 | 5.19 | 0.668 | 57.97 |
| 19-Aug-10 | 0.00105 | 0.00307 | 0.233 | 0.977 | 3.27 | 0.415 | 59.56 |
| 26-Oct-10 | U (0.0022) | U (0.0005) | 0.0449 | 0.0723 | 0.741 | U (0.403) | 60.06 |
| 17-Feb-11 | 0.00291 | 0.0034 | 0.108 | 0.472 | 3.11 | U (0.410) | 57.11 |

| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
|-----------|------------|------------|--------------|------------|------------|-----------|---------|
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| | | | | | | | |
| 09-Jun-11 | 0.00199 | 0.00405 | 0.173 | 0.856 | 5.08 | 0.436 | 57.63 |
| 20-Sep-11 | 0.00101 | 0.00133 | 0.0362 | 0.138 | 0.975 | U (0.403) | 60.13 |
| 21-Oct-11 | U (0.0005) | U (0.0005) | 0.0121 | 0.0303 | 0.365 | U (0.439) | 60.05 |
| 17-Feb-12 | 0.00403 | 0.00497 | 0.0807 | 0.476 | 2.80 | 0.726 | 57.53 |
| 17-May-12 | 0.000704 | 0.000734 | 0.0125 | 0.0378 | 0.683 | 0.541 | 60.79 |
| 05-Sep-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.410) | 76.18 |
| 30-Jan-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.403) | 65.81 |
| 10-May-13 | 0.000520 | 0.000627 | U (0.0005) | 0.00194 | 0.221 | U (0.400) | 64.83 |
| 11-Oct-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.439) | 74.49 |
| 11-Dec-13 | U (0.0005) | U (0.001) | U (0.001) | U (0.003) | U (0.05) | U (0.403) | 75.58 |
| 19-Feb-14 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.400) | 70.56 |
| 01-May-14 | U (0.005) | U (0.001) | U (0.001) | U (0.001) | U (0.05) | U (0.41) | 65.66 |
| 30-Oct-14 | 0.000860 | U (0.0005) | U (0.0005) | U (0.0015) | 0.190 | U (0.42) | 62.96 |
| 11-Feb-15 | U (0.0005) | U (0.0005) | 0.0031 | 0.0031 | 0.280 | U (0.42) | 59.60 |
| 15-May-15 | NT | NT | NT | NT | NT | NT | DRY |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | DRY |
| 12-Nov-15 | U (0.0020) | U (0.0020) | U (0.0030) | U (0.0020) | 0.32 | U (0.21) | 61.78 |
| 28-Jan-16 | U (0.0020) | U (0.0020) | U (0.0030) | U (0.0020) | U (0.050) | U (0.11) | 60.14 |
| 9-May-16 | NT | NT | NT | NT | NT | NT | DRY |
| 24-Oct-16 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (0.1) | U (0.41) | 60.57 |
| 9-Dec-16 | U (0.002) | U (0.001) | 0.0063 | 0.0034 | 0.17 | U (0.12) | 59.98 |
| 8-Feb-17 | NT | NT | NT | NT | NT | NT | DRY |
| 24-Apr-17 | U (0.0002) | U (0.001) | 0.085 | 0.44 | 1.4 | 0.22 | 59.64 |
| 20-Oct-17 | U (0.002) | U (0.002) | U (0.003) | U (0.003) | U(1.0) | U(0.110) | 60.86 |
| 13-Feb-18 | U (0.002) | U (0.002) | U (0.003) | U (0.002) | U (1.0) | U (0.13) | 59.52 |
| 17-Aug-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 60.76 |
| 25-Oct-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 61.38 |
| 26-Feb-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | 0.12 | 59.39 |
| 24-Apr-19 | U (0.003) | U (0.002) | 0.0086 | 0.0068 | U (0.25) | U (0.27) | 60.41 |
| 16-Jul-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 61.58 |
| 17-Oct-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 63.67 |
| 12-Aug-20 | U (0.001) | U (0.001) | U (0.001) | U (0.003) | U (0.100) | U (0.864) | 66.9 |
| 02-Oct-20 | 0.000236 J | U (0.001) | U (0.001) | U (0.002) | 0.0189 J | 0.406 J | 66.27 |
| 18-May-21 | U (0.001) | U (0.001) | 0.0017 | U (0.002) | 0.0693 B,J | U (0.800) | 62.54 |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

| | Monitoring Well G-6 | | | | | | | | | | |
|------------------------|---------------------|------------|--------------|------------|----------|----------|---------|--|--|--|--|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev | | | | |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) | | | | |
| 03-Sep-97 | U | 0.013 | 0.006 | 0.042 | 0.088 | 13 | NM | | | | |
| 29-Dec-97 | 0.039 | 0.0019 | 0.0014 | 0.0087 | 0.031 | 3.600 | NM | | | | |
| 03-Aug-98 | U | U | U | U | U | U | 60.89 | | | | |
| 02-Nov-98 | 0.001 | 0.0085 | 0.014 | 0.070 | 0.190 | U | 60.97 | | | | |
| 12-Feb-99 | U | U | U | U | U | Ü | 61.46 | | | | |
| 11-May-99 | U | Ü | Ü | 0.0026 | Ü | Ü | 58.37 | | | | |
| 30-Aug-99 | U | Ü | Ü | U | Ü | Ü | 61.27 | | | | |
| 29-Oct-99 | U | Ü | Ü | Ü | Ü | Ü | 66.60 | | | | |
| 08-Feb-00 | NT | NT | NT NT | NT | NT | NT | 61.54 | | | | |
| 08-Jun-00 | U | U | U | U | U | U | 69.19 | | | | |
| 30-Aug-00 | NT | NT | NT NT | NT | NT | NT | 66.68 | | | | |
| 30-Nov-00 | U | U | U | U | U | U | 63.30 | | | | |
| | NT | NT | NT | NT | NT | NT | NM | | | | |
| 05-Feb-01 | | | | | | | | | | | |
| 10-May-01 | U | U | U | U | U | U | 61.63 | | | | |
| 09-Nov-01 | U | U | U | U | U | U | 61.39 | | | | |
| 15-Feb-02 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 30-May-02 | U | U | U | U | U | U | 60.60 | | | | |
| 14-Aug-02 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 14-Nov-02 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 28-Jan-03 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-Apr-03 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.001) | U (0.08) | U (0.25) | 61.44 | | | | |
| 17-Jul-03 | NT | NT | NT | NT | NT | NT | 61.21 | | | | |
| 02-Oct-03 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 20-Jan-04 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 13-Apr-04 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.5) | 61.21 | | | | |
| 20-Jul-04 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 28-Jan-05 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 11-Apr-05 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 12-Aug-05 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 07-Oct-05 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 14-Feb-06 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 18-Apr-06 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 06-Jul-06 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 26-Oct-06 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 02-Feb-07 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 19-Apr-07 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 07-Aug-07 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 23-Oct-07 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 22-Feb-08 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 15-Apr-08 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 27-Aug-08 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 22-Oct-08 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 05-Feb-09 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 08-Apr-09 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 09-Jul-09 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 04-Nov-09 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 27-Jan-10 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 27-Jan-10 27-May-10 | NT | NT | NT NT | NT | NT NT | NT | NM | | | | |
| | NT NT | NT | NT NT | NT | NT NT | NT NT | | | | | |
| 19-Aug-10 | | | | | | | NM | | | | |
| 26-Oct-10 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-Feb-11 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 09-Jun-11 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 20-Sep-11 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 21-Oct-11 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-Feb-12 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 17-May-12 | NT | NT | NT | NT | NT | NT | NM | | | | |

| | D | Talasas | Monitoring | | 000 | DDO | OW FI- |
|-----------|---------|---------|--------------|---------|--------|--------|---------|
| D-4- | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 05-Sep-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Jan-13 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Oct-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Dec-13 | NT | NT | NT | NT | NT | NT | NM |
| 19-Feb-14 | NT | NT | NT | NT | NT | NT | NM |
| 01-May-14 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-14 | NT | NT | NT | NT | NT | NT | NM |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | NM |
| 15-May-15 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | NM |
| 12-Nov-15 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-16 | NT | NT | NT | NT | NT | NT | NM |
| 09-May-16 | NT | NT | NT | NT | NT | NT | NM |
| 24-Oct-16 | NT | NT | NT | NT | NT | NT | NM |
| 09-Dec-16 | NT | NT | NT | NT | NT | NT | NM |
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | NM |
| 25-Apr-17 | NT | NT | NT | NT | NT | NT | NM |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | NM |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | NM |
| 17-Aug-18 | NT | NT | NT | NT | NT | NT | NM |
| 25-Oct-18 | NT | NT | NT | NT | NT | NT | NM |
| 26-Feb-19 | NT | NT | NT | NT | NT | NT | NM |
| 24-Apr-19 | NT | NT | NT | NT | NT | NT | NM |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | NM |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-20 | NT | NT | NT | NT | NT | NT | NM |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

| | | | Monitoring | | | | |
|-----------|------------|------------|--------------|------------|----------|-----------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 03-Aug-98 | U | U | U | U | U | U | 59.62 |
| 02-Nov-98 | U | 0.005 | 0.012 | 0.058 | 0.16 | U | 59.19 |
| 12-Feb-99 | U | U | U | U | U | 0.79 | 54.81 |
| 10-May-99 | U | U | U | U | U | 0.45 | 54.19 |
| 30-Aug-99 | U | U | U | U | U | U | 58.32 |
| 29-Oct-99 | U | U | U | U | U | U | 66.07 |
| 08-Feb-00 | NT | NT | NT | NT | NT | NT | 60.91 |
| 08-Jun-00 | U | U | U | U | U | U | 68.93 |
| 30-Aug-00 | NT | NT | NT | NT | NT | NT | NM |
| 30-Nov-00 | U | U | U | U | U | U | 63.27 |
| 05-Feb-01 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-01 | U | U | U | U | U | U | 59.55 |
| 09-Nov-01 | U | U | U | U | U | U | 59.79 |
| 15-Feb-02 | NT | NT | NT | NT | NT | NT | NM |
| 30-May-02 | U | U | U | U | U | 2.47 | 56.63 |
| 14-Aug-02 | NT | NT | NT | NT | NT | NT | 59.20 |
| 14-Nov-02 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-03 | NT | NT | NT | NT | NT | NT | NM |
| 17-Apr-03 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.001) | U (0.08) | U (0.25) | 59.37 |
| 17-Jul-03 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-03 | NT | NT | NT | NT | NT | NT | NM |
| 20-Jan-04 | NT | NT | NT | NT | NT | NT | NM |
| 13-Apr-04 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.5) | 55.28 |
| 20-Jul-04 | NT | NT | NT | NT | NT | ŇT | NM |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-05 | NT | NT | NT | NT | NT | NT | NM |
| 11-Apr-05 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.435) | 61.36 |
| 12-Aug-05 | NT | NT | NT | NT | NT | NT | NM |
| 07-Oct-05 | NT | NT | NT | NT | NT | NT | NM |
| 14-Feb-06 | NT | NT | NT | NT | NT | NT | NM |
| 18-Apr-06 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.397) | 58.98 |
| 06-Jul-06 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-06 | NT | NT | NT | NT | NT | NT | NM |
| 02-Feb-07 | NT | NT | NT | NT | NT | NT | NM |
| 19-Apr-07 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.42) | NM |
| 07-Aug-07 | NT | NT | NT | NT | NT | NT | NM |
| 23-Oct-07 | NT | NT | NT | NT | NT | NT | NM |
| 22-Feb-08 | NT | NT | NT | NT | NT | NT | NM |
| 15-Apr-08 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.673 | 55.30 |
| 27-Aug-08 | NT | NT | NT | NT | NT | NT | NM |
| 22-Oct-08 | NT | NT | NT | NT | NT | NT | NM |
| 19-Feb-09 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.455) | NM |
| 08-Apr-09 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jul-09 | NT | NT | NT | NT | NT | NT | NM |
| 04-Nov-09 | NT | NT | NT | NT | NT | NT | NM |
| 27-Jan-10 | U (0.0005) | U (0.001) | U (0.001) | U (0.003) | U (0.05) | U (0.397) | 53.89 |
| 27-May-10 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.439) | 54.20 |
| 19-Aug-10 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.410) | 55.54 |
| 26-Oct-10 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.001) | U (0.08) | U (0.407) | 57.61 |
| 17-Feb-11 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.403) | 53.66 |
| 09-Jun-11 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.439) | 54.23 |
| 20-Sep-11 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.391) | 57.46 |
| 21-Oct-11 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.413) | 57.47 |
| 17-Feb-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.584 | 54.08 |
| 17-May-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.628 | 59.53 |
| 18-Jul-12 | U (0.0005) | U (0.0010) | U (0.0010) | U (0.0030) | U (0.05) | U (0.403) | NM |
| 05-Sep-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.400) | 62.00 |

| | Monitoring Well G-7 | | | | | | | | | | |
|-----------|---------------------|------------|--------------|------------|------------|-----------|---------|--|--|--|--|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev | | | | |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) | | | | |
| 30-Oct-12 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.397) | 75.98 | | | | |
| 30-Jan-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | 0.531 | 65.85 | | | | |
| 15-Feb-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.403) | 64.02 | | | | |
| 10-May-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.417) | 64.65 | | | | |
| 11-Oct-13 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.410) | 74.31 | | | | |
| 11-Dec-13 | U (0.0005) | U (0.001) | U (0.001) | U (0.003) | U (0.05) | U (0.410) | 75.38 | | | | |
| 19-Feb-14 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.407) | 70.46 | | | | |
| 01-May-14 | U (0.0005) | U (0.001) | U (0.001) | U (0.001) | U (0.05) | U (0.39) | 65.63 | | | | |
| 30-Oct-14 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.39) | 62.96 | | | | |
| 11-Feb-15 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.42) | 57.40 | | | | |
| 15-May-15 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.42) | 54.98 | | | | |
| 02-Sep-15 | U (0.0020) | U (0.001) | U (0.001) | U (0.001) | 0.16 | U (0.42) | 55.74 | | | | |
| 12-Nov-15 | U (0.0020) | U (0.0020) | U (0.0030) | U (0.0020) | U (0.050) | U (0.20) | 61.73 | | | | |
| 28-Jan-16 | U (0.0020) | U (0.0020) | U (0.0030) | U (0.0020) | U (0.050) | 0.23 | 58.37 | | | | |
| 09-May-16 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (0.1) | U (0.41) | 56.26 | | | | |
| 24-Oct-16 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (0.1) | U (0.41) | 59.67 | | | | |
| 09-Dec-16 | U (0.002) | U (0.002) | U (0.003) | U (0.003) | U (0.05) | U (0.11) | 58.06 | | | | |
| 08-Feb-17 | U (0.002) | U (0.002) | U (0.003) | U (0.002) | U (0.05) | U (0.11) | 54.46 | | | | |
| 25-Apr-17 | U (0.0002) | U (0.001) | U (0.001) | U (0.003) | U (1.0) | U (0.11) | 55.08 | | | | |
| 20-Oct-17 | U (0.002) | U (0.002) | U (0.003) | U (0.003) | U (1.0) | U (0.110) | 59.98 | | | | |
| 13-Feb-18 | U (0.002) | U (0.002) | U (0.003) | U (0.002) | U (1.0) | U (0.12) | 56.66 | | | | |
| 17-Aug-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 60.08 | | | | |
| 25-Oct-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 61.28 | | | | |
| 26-Feb-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.13) | 57.07 | | | | |
| 24-Apr-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.26) | 58.43 | | | | |
| 16-Jul-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 61.50 | | | | |
| 17-Oct-19 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 63.57 | | | | |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM | | | | |
| 02-Oct-20 | U (0.001) | U (0.001) | U (0.001) | U (0.002) | U (0.100) | U (0.888) | 67.25 | | | | |
| 18-May-21 | U (0.001) | U (0.001) | U (0.001) | U (0.002) | 0.0320 B,J | U (0.800) | 60.96 | | | | |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA | | | | |

| | | | Monitoring | | | | |
|------------------------|------------|------------|--------------|------------|----------|----------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 03-Aug-98 | U | U | U | U | U | U | 59.56 |
| 02-Nov-98 | U | 0.003 | 0.0074 | 0.0037 | 0.094 | U | 59.18 |
| 12-Feb-99 | U | U | U | U | U | U | 54.79 |
| 10-May-99 | U | U | Ü | Ü | U | U | 54.13 |
| 30-Aug-99 | Ü | Ü | Ü | Ü | Ü | Ü | 58.25 |
| 29-Oct-99 | U | U | Ü | U | Ü | U | 66.00 |
| 08-Feb-00 | NT | NT | NT | NT | NT | NT | 60.88 |
| 08-Jun-00 | U | U | U | U | U | U | 68.89 |
| 30-Aug-00 | NT | NT | NT NT | NT | NT | NT | NM |
| 30-Aug-00 30-Nov-00 | U | U | U | U | U | 0.130 | 63.25 |
| 05-Feb-01 | NT | NT | NT NT | NT | NT | NT | NM |
| | U | U | U | U | U | U | 59.49 |
| 10-May-01 | U | U | U | U | U | U | 59.49 |
| 09-Nov-01 | NT | NT | NT | NT | NT | NT | |
| 15-Feb-02 | | | | | | | NM |
| 30-May-02 | U | U | U | U | U | U | 56.58 |
| 14-Aug-02 | NT | NT | NT | NT | NT | NT | 59.15 |
| 14-Nov-02 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-03 | NT | NT | NT | NT | NT | NT | NM |
| 17-Apr-03 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.001) | U (0.08) | U (0.25) | 59.34 |
| 17-Jul-03 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-03 | NT | NT | NT | NT | NT | NT | NM |
| 20-Jan-04 | NT | NT | NT | NT | NT | NT | NM |
| 13-Apr-04 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.5) | 55.21 |
| 20-Jul-04 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-05 | NT | NT | NT | NT | NT | NT | NM |
| 11-Apr-05 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-05 | NT | NT | NT | NT | NT | NT | NM |
| 07-Oct-05 | NT | NT | NT | NT | NT | NT | NM |
| 14-Feb-06 | NT | NT | NT | NT | NT | NT | NM |
| 18-Apr-06 | NT | NT | NT | NT | NT | NT | NM |
| 06-Jul-06 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-06 | NT | NT | NT | NT | NT | NT | NM |
| 02-Feb-07 | NT | NT | NT | NT | NT | NT | NM |
| 19-Apr-07 | NT | NT | NT | NT | NT | NT | NM |
| 07-Aug-07 | NT | NT | NT | NT | NT | NT | NM |
| 23-Oct-07 | NT | NT | NT | NT | NT | NT | NM |
| 22-Feb-08 | NT | NT | NT | NT | NT | NT | NM |
| 15-Apr-08 | NT | NT | NT | NT | NT | NT | NM |
| 27-Aug-08 | NT | NT | NT | NT | NT | NT | NM |
| 22-Oct-08 | NT | NT | NT | NT | NT | NT | NM |
| 05-Feb-09 | NT | NT | NT | NT | NT | NT | NM |
| 08-Apr-09 | NT | NT | NT NT | NT | NT NT | NT | NM |
| 09-Jul-09 | NT | NT | NT NT | NT | NT NT | NT | NM |
| | NT NT | | | NT | | | NM |
| 04-Nov-09 | | NT | NT NT | | NT NT | NT | |
| 27-Jan-10 | NT NT | NT NT | NT NT | NT NT | NT NT | NT | NM |
| 27-May-10 | NT | NT | NT | NT | NT | NT | NM |
| 19-Aug-10 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-10 | NT | NT | NT | NT | NT | NT | NM |
| 17-Feb-11 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jun-11 | NT | NT | NT | NT | NT | NT | NM |
| 20-Sep-11 | NT | NT | NT | NT | NT | NT | NM |
| 21-Oct-11 | NT | NT | NT | NT | NT | NT | NM |
| 17-Feb-12 | NT | NT | NT | NT | NT | NT | NM |
| 17-May-12 | NT | NT | NT | NT | NT | NT | NM |
| | | | NIT | NT | NT | NIT | NIN/I |
| 05-Sep-12 | NT | NT | NT | IN I | IN I | NT | NM |

| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
|-----------|---------|---------|--------------|---------|--------|--------|---------|
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 30-Jan-13 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Oct-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Dec-13 | NT | NT | NT | NT | NT | NT | NM |
| 19-Feb-14 | NT | NT | NT | NT | NT | NT | NM |
| 01-May-14 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-14 | NT | NT | NT | NT | NT | NT | NM |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | NM |
| 15-May-15 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | NM |
| 12-Nov-15 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-16 | NT | NT | NT | NT | NT | NT | NM |
| 09-May-16 | NT | NT | NT | NT | NT | NT | NM |
| 24-Oct-16 | NT | NT | NT | NT | NT | NT | NM |
| 09-Dec-16 | NT | NT | NT | NT | NT | NT | NM |
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | NM |
| 25-Apr-17 | NT | NT | NT | NT | NT | NT | NM |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | NM |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | NM |
| 17-Aug-18 | NT | NT | NT | NT | NT | NT | NM |
| 25-Oct-18 | NT | NT | NT | NT | NT | NT | NM |
| 26-Feb-19 | NT | NT | NT | NT | NT | NT | NM |
| 24-Apr-19 | NT | NT | NT | NT | NT | NT | NM |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | NM |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-20 | NT | NT | NT | NT | NT | NT | NM |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

Monitoring Well VSC

| | _ | T = - | Wonitoring | | | | |
|-----------|------------|------------|--------------|------------|-----------|-----------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 28-Jan-03 | U (0.05) | 5.9 | 2.52 | 13.97 | 53.7 | 3.5 | 65.52 |
| 17-Apr-03 | 0.141 | 5.73 | 2.69 | 16 | 75.3 | 2.54 | NM |
| 17-Jul-03 | U (0.05) | 18.5 | 7.64 | 43.3 | 161 | 4.73 | NM |
| 02-Oct-03 | NT | NT | NT | NT | NT | NT | NM |
| 20-Jan-04 | U (0.2) | 4.89 | 3.03 | 18.7 | 52.4 | 4.06 | NM |
| 13-Apr-04 | U (0.1) | 7.93 | 4.78 | 23.8 | 90 | 1.34 | NM |
| 20-Jul-04 | U (0.25) | 5.78 | 2.5 | 23.4 | 88.8 | 4.96 | NM |
| 02-Sep-04 | U (0.5) | 11.7 | 10.4 | 75.1 | 229 | 18.9 | NM |
| 02-Sep-04 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-05 | NT | NT | NT | NT | NT | NT | NM |
| 11-Apr-05 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-05 | NT | NT | NT | NT | NT | NT | NM |
| 07-Oct-05 | NT | NT | NT | NT | NT | NT | NM |
| 14-Feb-06 | NT | NT | NT | NT | NT | NT | NM |
| 18-Apr-06 | NT | NT | NT | NT | NT | NT | NM |
| 06-Jul-06 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-06 | NT | NT | NT | NT | NT | NT | NM |
| 02-Feb-07 | NT | NT | NT | NT | NT | NT | NM |
| 19-Apr-07 | NT | NT | NT | NT | NT | NT | NM |
| 07-Aug-07 | NT | NT | NT | NT | NT | NT | NM |
| 23-Oct-07 | NT | NT | NT | NT | NT | NT | NM |
| 22-Feb-08 | NT | NT | NT | NT | NT | NT | NM |
| 15-Apr-08 | NT | NT | NT | NT | NT | NT | NM |
| 27-Aug-08 | NT | NT | NT | NT | NT | NT | NM |
| 22-Oct-08 | NT | NT | NT | NT | NT | NT | NM |
| 05-Feb-09 | NT | NT | NT | NT | NT | NT | NM |
| 08-Apr-09 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jul-09 | NT | NT | NT | NT | NT | NT | NM |
| | NT NT | NT NT | NT NT | NT | NT NT | | |
| 04-Nov-09 | | NT NT | | | | NT NT | NM |
| 27-Jan-10 | NT | | NT | NT | NT | NT | NM |
| 27-May-10 | NT | NT | NT | NT | NT | NT | NM |
| 19-Aug-10 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-10 | NT | NT | NT | NT NT | NT | NT | NM |
| 17-Feb-11 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jun-11 | NT | NT | NT | NT | NT | NT | NM |
| 20-Sep-11 | NT | NT | NT | NT | NT | NT | NM |
| 21-Oct-11 | NT | NT | NT | NT | NT | NT | NM |
| 17-Feb-12 | NT | NT | NT | NT | NT | NT | NM |
| 17-May-12 | NT | NT | NT | NT | NT | NT | NM |
| 05-Sep-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Jan-13 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Oct-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Dec-13 | NT | NT | NT | NT | NT | NT | NM |
| 19-Feb-14 | NT | NT | NT | NT | NT | NT | NM |
| 01-May-14 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-14 | NT | NT | NT | NT | NT | NT | NM |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | NM |
| 15-May-15 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | NM |
| 14-Oct-15 | U (0.0010) | U (0.0010) | U (0.0010) | U (0.0030) | U (0.01) | 1.0 | NM |
| 12-Nov-15 | NT | NT | NT | NT | NT | NT | NM |
| 28-Jan-16 | U (0.0020) | U (0.0020) | U (0.0020) | U (0.0020) | U (0.050) | U (0.012) | NM |
| 09-May-16 | NT | NT | NT | NT | NT | NT | NM |
| 24-Oct-16 | NT | NT | NT | NT | NT | NT | NM |
| 09-Dec-16 | NT | NT | NT | NT | NT | NT | NM |

Monitoring Well VSC

| Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (mg/L) | GRO (mg/L) | DRO (mg/L) | GW Elev (feet) |
|-----------|-------------------|-------------------|------------------------|-------------------|---------------|---------------|-------------------|
| 08-Feb-17 | NT | NT | NT | NT | NT | NT | NM |
| 25-Apr-17 | NT | NT | NT | NT | NT | NT | NM |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | NM |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | NM |
| 17-Aug-18 | NT | NT | NT | NT | NT | NT | NM |
| 25-Oct-18 | U (0.003) | U (0.002) | U (0.003) | U (0.003) | U (0.25) | U (0.12) | 61.28 |
| 26-Feb-19 | NT | NT | NT | NT | NT | NT | NM |
| 24-Apr-19 | NT | NT | NT | NT | NT | NT | NM |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | NM |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-20 | NT | NT | NT | NT | NT | NT | NM |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
|------------------------|------------|------------|--------------|------------|----------|-----------|----------|
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 02-Feb-07 | U (0.0005) | U (0.0005) | U (0.0005) | U (0.0015) | U (0.05) | U (0.403) | NM |
| 19-Apr-07 | NT | NT | NT | NT | NT | NT | NM |
| 07-Aug-07 | NT | NT | NT | NT | NT | NT | NM |
| 23-Oct-07 | NT | NT | NT | NT | NT | NT | NM |
| 22-Feb-08 | NT | NT | NT | NT | NT | NT | NM |
| 15-Apr-08 | NT | NT | NT | NT | NT | NT | NM |
| 27-Aug-08 | NT | NT | NT | NT | NT | NT | NM |
| 22-Oct-08 | NT | NT | NT | NT | NT | NT | NM |
| 05-Feb-09 | NT | NT | NT | NT | NT | NT | NM |
| 08-Apr-09 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jul-09 | NT | NT | NT | NT | NT | NT | NM |
| 04-Nov-09 | NT | NT | NT | NT | NT | NT | NM |
| 27-Jan-10 | NT | NT | NT | NT | NT | NT | NM |
| 27-May-10 | NT | NT | NT | NT | NT | NT | NM |
| 19-Aug-10 | NT | NT | NT | NT | NT | NT | NM |
| 26-Oct-10 | NT | NT | NT | NT | NT | NT | NM |
| 17-Feb-11 | NT | NT | NT | NT | NT | NT | NM |
| 09-Jun-11 | NT | NT | NT | NT | NT | NT | NM |
| 20-Sep-11 | NT | NT | NT | NT | NT | NT | NM |
| 21-Oct-11 | NT | NT | NT | NT | NT | NT | NM |
| 17-Feb-12 | NT | NT | NT | NT | NT | NT | NM |
| 17-May-12 | NT | NT | NT | NT | NT | NT | NM |
| 05-Sep-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-12 | NT | NT | NT | NT | NT | NT | NM |
| 30-Jan-13 | NT | NT | NT | NT | NT | NT | NM |
| 10-May-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Oct-13 | NT | NT | NT | NT | NT | NT | NM |
| 11-Dec-13 | NT | NT | NT | NT | NT | NT | NM |
| 19-Feb-14 | NT | NT | NT | NT | NT | NT | NM |
| 01-May-14 | NT | NT | NT | NT | NT | NT | NM |
| 30-Oct-14 | NT | NT | NT | NT | NT | NT | NM |
| 11-Feb-15 | NT | NT | NT | NT | NT | NT | NM |
| 15-May-15 | NT | NT | NT | NT | NT | NT | NM |
| 02-Sep-15 | NT | NT | NT | NT | NT | NT | NM |
| 12-Nov-15 | NT | NT | NT NT | NT | NT | NT | NM |
| 28-Jan-16 09-May-16 | NT NT | NT NT | NT NT | NT NT | NT NT | NT NT | NM NM |
| 24-Oct-16 | NT | NT | NT NT | NT | NT NT | NT | NM |
| 09-Dec-16 | NT | NT | NT NT | NT | NT | NT NT | NM |
| 09-Dec-16 08-Feb-17 | NT NT | NT | NT NT | NT | NT | NT | NM |
| 25-Apr-17 | NT | NT | NT | NT | NT | NT | NM |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | NM |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | NM |
| 17-Aug-18 | NT | NT | NT | NT | NT | NT | NM |
| 25-Oct-18 | NT | NT | NT | NT | NT | NT | NM |
| 26-Feb-19 | NT | NT | NT | NT | NT | NT | NM |
| 24-Apr-19 | NT | NT | NT | NT | NT | NT | NM |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | NM |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-20 | NT | NT | NT | NT | NT | NT | NM |
| 02-Oct-20 | NT | NT | NT | NT | NT | NT | NM |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

Remediation Well RW16-1

| | Benzene | Toluene | Ethylbenzene | Xylenes | GRO | DRO | GW Elev |
|-----------|------------|-----------|--------------|---------|--------|--------|---------|
| Date | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (feet) |
| 24-Oct-16 | U (0.0002) | 0.019 | 1.7 | 10.1 | 30 | 4.6 | NM |
| 09-Dec-16 | NT | NT | NT | NT | NT | NT | NM |
| 08-Feb-17 | U (0.002) | 0.0048 | 7.9 | 8.9 | 25 | 2.7 | NM |
| 25-Apr-17 | U (0.002) | U (0.001) | U (0.750) | 4.83 | 12 | 2.4 | NM |
| 20-Oct-17 | NT | NT | NT | NT | NT | NT | 64.44 |
| 13-Feb-18 | NT | NT | NT | NT | NT | NT | 63.41 |
| 17-Aug-18 | U (0.003) | 0.0018 J | 1.2 | 8.5 | 24 | 7.9 | 64.14 |
| 25-Oct-18 | NT | NT | NT | NT | NT | NT | 68.84 |
| 26-Feb-19 | NT | NT | NT | NT | NT | NT | 63.80 |
| 24-Apr-19 | NT | NT | NT | NT | NT | NT | NM |
| 16-Jul-19 | NT | NT | NT | NT | NT | NT | 64.06 |
| 17-Oct-19 | NT | NT | NT | NT | NT | NT | NM |
| 12-Aug-20 | 0.00092 | 0.00558 | 1.58 | 8.26 | 5.85 | 2 | 67.50 |
| 02-Oct-20 | U (0.020) | 0.0174 J | 0.373 | 1.721 | 3.99 | 3.58 | 67.21 |
| 31-Mar-21 | U (0.020) | U (0.020) | 1.33 | 5.28 | 14 | 4.72 | 67.78 |
| 18-May-21 | U (0.200) | U (0.200) | 0.761 | 4.8 | 3.38 | 7.24 | 66.13 |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

Monitoring Well MW16-2

| Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (mg/L) | GRO (mg/L) | DRO (mg/L) | GW Elev (feet) |
|-----------|-------------------|-------------------|------------------------|-------------------|---------------|---------------|-------------------|
| 25-Oct-16 | NT | NT | NT | NT | NT | NT | NM |
| 09-Dec-16 | U (0.0002) | U (0.001) | 0.022 | 0.429 | 2 | 0.25 | NM |
| 08-Feb-17 | U (0.002) | 0.0078 | 0.44 | 3.3 | 19 | 2.1 | NM |
| 25-Apr-17 | U (0.0002) | U (0.002) | U (0.30) | 1 | 8.7 | 0.86 | NM |
| 20-Oct-17 | U (0.002) | U (0.002) | 0.042 | 0.125 | 2.2 | 0.26 | 64.50 |
| 13-Feb-18 | U (0.002) | U (0.002) | 0.051 | 0.177 | 6.1 | 0.59 | 63.62 |
| 17-Aug-18 | U (0.003) | U (0.002) | 0.015 | 0.0771 | 2.4 | 0.63 | 64.26 |
| 25-Oct-18 | U (0.003) | U (0.002) | 0.0036 | 0.013 | 1 | 0.31 | 64.32 |
| 26-Feb-19 | U (0.003) | U (0.002) | 0.0066 | 0.023 | 4.6 | 1.1 | 62.77 |
| 24-Apr-19 | U (0.003) | U (0.002) | 0.0065 | 0.027 | 4.2 | 0.58 | 63.62 |
| 16-Jul-19 | U (0.003) | U (0.002) | 0.0066 | 0.031 | 3.4 | 0.67 | 64.30 |
| 17-Oct-19 | U (0.003) | U (0.002) | 0.0052 | 0.023 | 2.1 | 0.30 | 67.16 |
| 12-Aug-20 | U (0.001) | U (0.001) | 0.00166 | 0.00735 | 1.65 | 0.419 | 67.39 |
| 02-Oct-20 | U (0.001) | U (0.001) | 0.000720 J | 0.002772 | 0.967 | 0.250 J | 67.08 |
| 31-Mar-21 | U (0.001) | U (0.001) | 0.001 J | 0.00276 J | 2.86 | 0.585 J | 65.22 |
| 18-May-21 | U (0.00100) | U (0.00100) | U (0.00100) | U (0.00200) | 0.419 | U (0.800) | 66.30 |
| GCLs | 0.0046 | 1.1 | 0.015 | 0.19 | 2.2 | 1.5 | NA |

Key:

* - Air lift pump causes water elevation to fluctuate. An average groundwater elevation is reported.

DRO - diesel range organics

GCL - ground water cleanup levels

GRO - gasoline range organics

GW - ground water

H - sample was prepped or analyzed beyond the specified holding time

mg/L - milligrams per liter

NA - not applicable

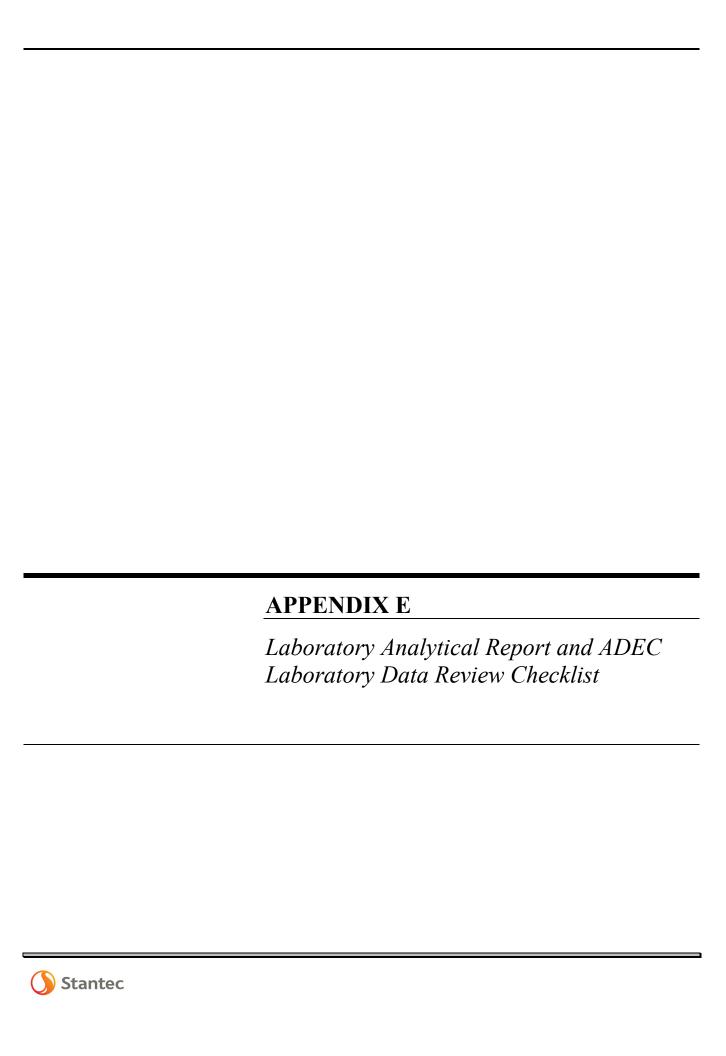
NM - not measured

NT - not tested

U - Undetected above practical quantitation limits.

Bold, shade indicates the concentration exceeds the GCL or, if not detected, the reporting limit exceeds the GCL

- B the same analyte is found in the associated trip blank
- J the identification of the analyte is acceptable; the reported value is an estimate





Pace Analytical® ANALYTICAL REPORT

Stantec - Anchorage, AK - Speedway

L1356623 Sample Delivery Group: Samples Received: 05/21/2021

Project Number:

Description: Speedway 5325

0005325 Site:

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 www.pacenational.com

















TABLE OF CONTENTS

| Cp: Cover Page | 1 |
|--|----|
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 5 |
| Sr: Sample Results | 6 |
| G-01 L1356623-01 | 6 |
| G-03 L1356623-02 | 7 |
| G-05 L1356623-03 | 8 |
| G-07 L1356623-04 | 9 |
| MW16-02 L1356623-05 | 10 |
| RW16-01 L1356623-06 | 11 |
| DUP1 L1356623-07 | 12 |
| TRIP BLANK L1356623-08 | 13 |
| Qc: Quality Control Summary | 14 |
| Metals (ICP) by Method 6010C | 14 |
| Volatile Organic Compounds (GC) by Method AK101 | 15 |
| Volatile Organic Compounds (GC/MS) by Method 8260C | 17 |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | 19 |
| GI: Glossary of Terms | 20 |
| Al: Accreditations & Locations | 21 |
| Sc: Sample Chain of Custody | 22 |



















SAMPLE SUMMARY

| G-01 L1356623-01 GW | | | Collected by John Marshall | Collected date/time 05/18/21 12:56 | Received da 05/21/21 09: | |
|--|-----------|----------|-------------------------------|------------------------------------|--------------------------|----------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Metals (ICP) by Method 6010C | WG1683965 | 1 | 06/07/21 16:48 | 06/08/2110:09 | EL | Mt. Juliet, TN |
| /olatile Organic Compounds (GC) by Method AK101 | WG1680021 | 1 | 06/01/21 12:09 | 06/01/21 12:09 | TPR | Mt. Juliet, TN |
| /olatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 18:14 | 05/28/21 18:14 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 1.05 | 05/28/21 09:26 | 05/28/21 15:18 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| G-03 L1356623-02 GW | | | John Marshall | 05/18/21 13:50 | 05/21/21 09: | 30 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Metals (ICP) by Method 6010C | WG1683965 | 1 | 06/07/21 16:48 | 06/08/2110:12 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101 | WG1675683 | 1 | 05/23/21 01:09 | 05/23/21 01:09 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 18:34 | 05/28/21 18:34 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 10 | 05/28/21 09:26 | 06/01/21 06:02 | DMG | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| G-05 L1356623-03 GW | | | John Marshall | 05/18/21 12:18 | 05/21/21 09: | 30 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Metals (ICP) by Method 6010C | WG1683965 | 1 | 06/07/21 16:48 | 06/08/2110:15 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101 | WG1675683 | 1 | 05/23/21 01:31 | 05/23/21 01:31 | BMB | Mt. Juliet, TN |
| /olatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 18:55 | 05/28/21 18:55 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 1 | 05/28/21 09:26 | 05/28/21 15:38 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| G-07 L1356623-04 GW | | | John Marshall | 05/18/21 11:37 | 05/21/21 09: | 30 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Metals (ICP) by Method 6010C | WG1683965 | 1 | 06/07/21 16:48 | 06/08/21 10:18 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101 | WG1675683 | 1 | 05/23/21 01:53 | 05/23/21 01:53 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 19:15 | 05/28/21 19:15 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 1 | 05/28/21 09:26 | 05/28/21 15:58 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| MW16-02 L1356623-05 GW | | | John Marshall | 05/18/21 14:35 | 05/21/21 09: | 30 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Metals (ICP) by Method 6010C | WG1683965 | 1 | 06/07/21 16:48 | 06/08/21 10:20 | EL | Mt. Juliet, TN |
| Welatile Organic Compounds (GC) by Method AK101 | WG1675683 | 1 | 05/23/21 02:14 | 05/23/21 02:14 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 19:35 | 05/28/21 19:35 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 1 | 05/28/21 09:26 | 05/28/21 16:18 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| RW16-01 L1356623-06 GW | | | John Marshall | 05/18/21 15:40 | 05/21/21 09: | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Metals (ICP) by Method 6010C | WG1683965 | 5 | 06/07/21 16:48 | 06/08/21 12:11 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101 | WG1680021 | 20 | 06/01/21 12:31 | 06/01/21 12:31 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 200 | 05/28/21 22:38 | 05/28/21 22:38 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 1.05 | 05/28/21 09:26 | 06/01/21 05:42 | DMG | Mt. Juliet, TN |





















SAMPLE SUMMARY

| DUP1 L1356623-07 GW | | | John Marshall | 05/18/21 14:35 | 05/21/21 09: | |
|--|-----------|----------|--------------------------|-----------------------|--------------|----------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Metals (ICP) by Method 6010C | WG1683965 | 1 | 06/07/21 16:48 | 06/08/21 10:26 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method AK101 | WG1675683 | 1 | 05/23/21 02:58 | 05/23/21 02:58 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 19:56 | 05/28/21 19:56 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method AK102 | WG1678702 | 1.05 | 05/28/21 09:26 | 05/28/21 16:39 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| TRIP BLANK L1356623-08 GW | | | John Marshall | 05/18/21 12:00 | 05/21/21 09: | 30 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1679342 | 1 | 05/28/21 16:32 | 05/28/21 16:32 | ADM | Mt. Juliet, TN |



















Stantec - Anchorage, AK - Speedway

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.

















PAGE:

5 of 22

Craig Cothron Project Manager

Analyte

TPHGAK C6 to C10

a,a,a-Trifluorotoluene(FID) (S) a,a,a-Trifluorotoluene(PID)

SAMPLE RESULTS - 01

Dilution

1

Analysis

date / time

06/01/2021 12:09

06/01/2021 12:09

06/01/2021 12:09

Batch

WG1680021

WG1680021

WG1680021

Collected date/time: 05/18/21 12:56 Metals (ICP) by Method 6010C

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|---------|--------|-----------|-------|------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Sodium | 16.4 | | 0.504 | 3.00 | 1 | 06/08/2021 10:09 | WG1683965 |

RDL

mg/l

0.100

50.0-150

79.0-125



Ss

Cn







[°]Qc









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

Volatile Organic Compounds (GC) by Method AK101

Qualifier

ВJ

MDL

mg/l

0.0100

Result

0.0152

mg/l

97.9

103

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| sec-Butylbenzene | U | | 0.000125 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| Isopropylbenzene | U | | 0.000105 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 18:14 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| m&p-Xylene | U | | 0.000430 | 0.00200 | 1 | 05/28/2021 18:14 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 18:14 | WG1679342 |
| (S) Toluene-d8 | 105 | | | 80.0-120 | | 05/28/2021 18:14 | WG1679342 |
| (S) 4-Bromofluorobenzene | 92.9 | | | 77.0-126 | | 05/28/2021 18:14 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 117 | | | 70.0-130 | | 05/28/2021 18:14 | WG1679342 |

Semi-Volatile Organic Compounds (GC) by Method AK102

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------|--------|-----------|-------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | 0.405 | <u>J</u> | 0.240 | 0.840 | 1.05 | 05/28/2021 15:18 | WG1678702 |
| (S) o-Terphenyl | 112 | | | 50.0-150 | | 05/28/2021 15:18 | WG1678702 |

SDG:

Metals (ICP) by Method 6010C

Collected date/time: 05/18/21 13:50

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|---------|--------|-----------|-------|------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Sodium | 32.2 | | 0.504 | 3.00 | 1 | 06/08/2021 10:12 | WG1683965 |





Volatile Organic Compounds (GC) by Method AK101

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|------------------------------------|--------|-----------|--------|----------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| TPHGAK C6 to C10 | 1.36 | | 0.0100 | 0.100 | 1 | 05/23/2021 01:09 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(FID) | 108 | | | 50.0-150 | | 05/23/2021 01:09 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(PID) | 108 | | | 79.0-125 | | 05/23/2021 01:09 | WG1675683 |



Ss



GI

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

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|---------------------------|---------|-----------|-----------|----------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| sec-Butylbenzene | 0.00354 | | 0.000125 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| Ethylbenzene | 0.00111 | | 0.000137 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| Isopropylbenzene | 0.00602 | | 0.000105 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 18:34 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| 1,2,4-Trimethylbenzene | 0.0452 | | 0.000322 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| 1,3,5-Trimethylbenzene | 0.0457 | | 0.000104 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| m&p-Xylene | 0.00102 | <u>J</u> | 0.000430 | 0.00200 | 1 | 05/28/2021 18:34 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 18:34 | WG1679342 |
| (S) Toluene-d8 | 105 | | | 80.0-120 | | 05/28/2021 18:34 | WG1679342 |
| (S) 4-Bromofluorobenzene | 97.1 | | | 77.0-126 | | 05/28/2021 18:34 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 05/28/2021 18:34 | WG1679342 |



| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------|--------|-----------|------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | 8.48 | | 2.29 | 8.00 | 10 | 06/01/2021 06:02 | WG1678702 |
| (S) o-Terphenyl | 124 | | | 50.0-150 | | 06/01/2021 06:02 | WG1678702 |

L1356623

Metals (ICP) by Method 6010C

Collected date/time: 05/18/21 12:18

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|---------|--------|-----------|-------|------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Sodium | 13.9 | | 0.504 | 3.00 | 1 | 06/08/2021 10:15 | WG1683965 |





Volatile Organic Compounds (GC) by Method AK101

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|------------------------------------|--------|------------|--------|----------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| TPHGAK C6 to C10 | 0.0693 | <u>B J</u> | 0.0100 | 0.100 | 1 | 05/23/2021 01:31 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(FID) | 108 | | | 50.0-150 | | 05/23/2021 01:31 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | | 79.0-125 | | 05/23/2021 01:31 | WG1675683 |



Ss



⁶Qc

GI

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

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| sec-Butylbenzene | U | | 0.000125 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| Ethylbenzene | 0.00170 | | 0.000137 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| Isopropylbenzene | 0.000309 | <u>J</u> | 0.000105 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 18:55 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| 1,3,5-Trimethylbenzene | 0.000191 | <u>J</u> | 0.000104 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| m&p-Xylene | U | | 0.000430 | 0.00200 | 1 | 05/28/2021 18:55 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 18:55 | WG1679342 |
| (S) Toluene-d8 | 105 | | | 80.0-120 | | 05/28/2021 18:55 | WG1679342 |
| (S) 4-Bromofluorobenzene | 92.4 | | | 77.0-126 | | 05/28/2021 18:55 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 113 | | | 70.0-130 | | 05/28/2021 18:55 | WG1679342 |





| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------|--------|-----------|-------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | U | | 0.229 | 0.800 | 1 | 05/28/2021 15:38 | WG1678702 |
| (S) o-Terphenyl | 94.2 | | | 50 0-150 | | 05/28/2021 15:38 | WG1678702 |

Collected date/time: 05/18/21 11:37 Metals (ICP) by Method 6010C

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------|--------|-----------|-------|------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/I | | date / time | |
| Sodium | 9.55 | | 0.504 | 3.00 | 1 | 06/08/2021 10:18 | WG1683965 |



| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|------------------------------------|--------|-----------|--------|----------|----------|------------------|------------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| TPHGAK C6 to C10 | 0.0320 | ВЈ | 0.0100 | 0.100 | 1 | 05/23/2021 01:53 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(FID) | 111 | | | 50.0-150 | | 05/23/2021 01:53 | <u>WG1675683</u> |
| (S) a,a,a-Trifluorotoluene(PID) | 102 | | | 79.0-125 | | 05/23/2021 01:53 | WG1675683 |



[°]Qc

Gl

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

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| sec-Butylbenzene | U | | 0.000125 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| Isopropylbenzene | U | | 0.000105 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 19:15 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| m&p-Xylene | U | | 0.000430 | 0.00200 | 1 | 05/28/2021 19:15 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 19:15 | WG1679342 |
| (S) Toluene-d8 | 103 | | | 80.0-120 | | 05/28/2021 19:15 | WG1679342 |
| (S) 4-Bromofluorobenzene | 90.1 | | | 77.0-126 | | 05/28/2021 19:15 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 112 | | | 70.0-130 | | 05/28/2021 19:15 | WG1679342 |

³Sc

Αl

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------|--------|-----------|-------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | U | | 0.229 | 0.800 | 1 | 05/28/2021 15:58 | WG1678702 |
| (S) o-Terphenyl | 97.0 | | | 50.0-150 | | 05/28/2021 15:58 | WG1678702 |

Collected date/time: 05/18/21 14:35 Metals (ICP) by Method 6010C

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
|---------|--------|-----------|-------|------|----------|------------------|-----------|--|
| Analyte | mg/l | | mg/l | mg/l | | date / time | <u> </u> | |
| Sodium | 4.72 | | 0.504 | 3.00 | 1 | 06/08/2021 10:20 | WG1683965 | |



Volatile Organic Compounds (GC) by Method AK101

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|------------------------------------|--------|-----------|--------|----------|----------|------------------|------------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| TPHGAK C6 to C10 | 0.419 | | 0.0100 | 0.100 | 1 | 05/23/2021 02:14 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(FID) | 98.9 | | | 50.0-150 | | 05/23/2021 02:14 | <u>WG1675683</u> |
| (S) a,a,a-Trifluorotoluene(PID) | 104 | | | 79.0-125 | | 05/23/2021 02:14 | WG1675683 |



Ss



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

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------|----------|-----------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| sec-Butylbenzene | 0.000920 | <u>J</u> | 0.000125 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| Isopropylbenzene | 0.000753 | J | 0.000105 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 19:35 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| 1,2,4-Trimethylbenzene | 0.0110 | | 0.000322 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| 1,3,5-Trimethylbenzene | 0.0103 | | 0.000104 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| m&p-Xylene | U | | 0.000430 | 0.00200 | 1 | 05/28/2021 19:35 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 19:35 | WG1679342 |
| (S) Toluene-d8 | 107 | | | 80.0-120 | | 05/28/2021 19:35 | WG1679342 |
| (S) 4-Bromofluorobenzene | 94.6 | | | 77.0-126 | | 05/28/2021 19:35 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 111 | | | 70.0-130 | | 05/28/2021 19:35 | WG1679342 |

Gl

³Sc

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------|--------|-----------|-------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | U | | 0.229 | 0.800 | 1 | 05/28/2021 16:18 | WG1678702 |
| (S) o-Ternhenyl | 100 | | | 50 0-150 | | 05/28/2021 16:18 | WG1678702 |

Dilution Analysis

Batch

Collected date/time: 05/18/21 15:40

Qualifier

MDL

Metals (ICP) by Method 6010C

| | Result | Qualifier N | /IDL | RDL | Dilution | Analysis | <u>Batch</u> |
|---------|--------|-------------|------|------|----------|------------------|--------------|
| Analyte | mg/l | r | ng/l | mg/l | | date / time | |
| Sodium | 24.1 | 2 | .52 | 15.0 | 5 | 06/08/2021 12:11 | WG1683965 |



Ss















| Analyte | mg/l | mg/l | mg/l | | date / time | |
|------------------------------------|------|-------|----------|----|------------------|-----------|
| TPHGAK C6 to C10 | 3.38 | 0.200 | 2.00 | 20 | 06/01/2021 12:31 | WG1680021 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9 | | 50.0-150 | | 06/01/2021 12:31 | WG1680021 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | 79.0-125 | | 06/01/2021 12:31 | WG1680021 |

RDL

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

Volatile Organic Compounds (GC) by Method AK101

Result

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|--------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0188 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| n-Butylbenzene | U | | 0.0314 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| sec-Butylbenzene | U | | 0.0250 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| tert-Butylbenzene | U | | 0.0254 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| Ethylbenzene | 0.761 | | 0.0274 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| Isopropylbenzene | 0.126 | <u>J</u> | 0.0210 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.200 | 1.00 | 200 | 05/28/2021 22:38 | WG1679342 |
| Toluene | U | | 0.0556 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| 1,2,4-Trimethylbenzene | 2.50 | | 0.0644 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| 1,3,5-Trimethylbenzene | 0.530 | | 0.0208 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| m&p-Xylene | 3.89 | | 0.0860 | 0.400 | 200 | 05/28/2021 22:38 | WG1679342 |
| o-Xylene | 0.908 | | 0.0348 | 0.200 | 200 | 05/28/2021 22:38 | WG1679342 |
| (S) Toluene-d8 | 105 | | | 80.0-120 | | 05/28/2021 22:38 | WG1679342 |
| (S) 4-Bromofluorobenzene | 99.3 | | | 77.0-126 | | 05/28/2021 22:38 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 113 | | | 70.0-130 | | 05/28/2021 22:38 | WG1679342 |

| | D 11 | 0 1:5 | MDI | DDI | D:1 :: | A 1 : | D |
|-------------------|--------|-----------|-------|----------|----------|------------------|-----------|
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | 7.24 | | 0.240 | 0.840 | 1.05 | 06/01/2021 05:42 | WG1678702 |
| (S) o-Terphenyl | 115 | | | 50.0-150 | | 06/01/2021 05:42 | WG1678702 |

DUP1

SAMPLE RESULTS - 07

Collected date/time: 05/18/21 14:35

Metals (ICP) by Method 6010C

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------|--------|-----------|-------|------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Sodium | 4.86 | | 0.504 | 3.00 | 1 | 06/08/2021 10:26 | WG1683965 |



Volatile Organic Compounds (GC) by Method AK101

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|------------------------------------|--------|-----------|--------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| TPHGAK C6 to C10 | 0.751 | | 0.0100 | 0.100 | 1 | 05/23/2021 02:58 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(FID) | 107 | | | 50.0-150 | | 05/23/2021 02:58 | WG1675683 |
| (S) a,a,a-Trifluorotoluene(PID) | 107 | | | 79.0-125 | | 05/23/2021 02:58 | WG1675683 |



Cn



[°]Qc

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

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | <u>Batch</u> |
|---------------------------|---------|-----------|-----------|----------|----------|------------------|--------------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| sec-Butylbenzene | 0.00114 | | 0.000125 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| Isopropylbenzene | 0.00106 | | 0.000105 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 19:56 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| 1,2,4-Trimethylbenzene | 0.0174 | | 0.000322 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| 1,3,5-Trimethylbenzene | 0.0143 | | 0.000104 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| m&p-Xylene | U | | 0.000430 | 0.00200 | 1 | 05/28/2021 19:56 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 19:56 | WG1679342 |
| (S) Toluene-d8 | 109 | | | 80.0-120 | | 05/28/2021 19:56 | WG1679342 |
| (S) 4-Bromofluorobenzene | 93.4 | | | 77.0-126 | | 05/28/2021 19:56 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 112 | | | 70.0-130 | | 05/28/2021 19:56 | WG1679342 |



Gl



| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------|--------|-----------|-------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| AK102 DRO C10-C25 | U | | 0.240 | 0.840 | 1.05 | 05/28/2021 16:39 | WG1678702 |
| (S) o-Terphenyl | 98.6 | | | 50.0-150 | | 05/28/2021 16:39 | WG1678702 |

Collected date/time: 05/18/21 12:00

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

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| n-Butylbenzene | U | | 0.000157 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| sec-Butylbenzene | U | | 0.000125 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| tert-Butylbenzene | U | | 0.000127 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| Isopropylbenzene | U | | 0.000105 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| Naphthalene | U | <u>C3</u> | 0.00100 | 0.00500 | 1 | 05/28/2021 16:32 | WG1679342 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| m&p-Xylene | U | | 0.000430 | 0.00200 | 1 | 05/28/2021 16:32 | WG1679342 |
| o-Xylene | U | | 0.000174 | 0.00100 | 1 | 05/28/2021 16:32 | WG1679342 |
| (S) Toluene-d8 | 105 | | | 80.0-120 | | 05/28/2021 16:32 | WG1679342 |
| (S) 4-Bromofluorobenzene | 91.4 | | | 77.0-126 | | 05/28/2021 16:32 | WG1679342 |
| (S) 1,2-Dichloroethane-d4 | 112 | | | 70.0-130 | | 05/28/2021 16:32 | WG1679342 |





















QUALITY CONTROL SUMMARY

L1356623-01,02,03,04,05,06,07

Metals (ICP) by Method 6010C Method Blank (MB)

(MB) R3664572-1 06/08/21 09:28

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









(LCS) R3664572-2 06/08/21 09:30

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Sodium | 10.0 | 9.80 | 98.0 | 80 0-120 | |









(OS) L1356626-04 06/08/21 09:33 • (MS) R3664572-4 06/08/21 09:39 • (MSD) R3664572-5 06/08/21 09:42

| (, | | Original Result | | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------|------|-----------------|------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Sodium | 10.0 | 5.99 | 15.8 | 15.8 | 97.9 | 97.7 | 1 | 75.0-125 | | | 0.119 | 20 |







QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method AK101

L1356623-02,03,04,05,07

Method Blank (MB)

| (MB) R3660972-2 05/22 | /21 21:47 | | | |
|------------------------------------|-----------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/l | | mg/l | mg/l |
| TPHGAK C6 to C10 | 0.0235 | <u>J</u> | 0.0100 | 0.100 |
| (S) a,a,a-Trifluorotoluene(PID) | 100 | | | 79.0-125 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.6 | | | 60.0-120 |
| ,,,,, | | | | |

Laboratory Control Sample (LCS)

| (LCS) R3660972-1 05/22 | 2/21 20:42 | | | | |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/l | mg/l | % | % | |
| TPHGAK C6 to C10 | 5.00 | 4.88 | 97.6 | 60.0-120 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 128 | 79.0-125 | <u>J1</u> |
| (S) a,a,a-Trifluorotoluene(FID) | | | 112 | 60.0-120 | |



QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method AK101

L1356623-01,06

Method Blank (MB)

| B) R3662481-3 06/01/ | 21 11:47 | | | | |
|--------------------------------|-----------|--------------|--------|----------|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | |
| alyte | mg/l | | mg/l | mg/l | |
| HGAK C6 to C10 | 0.0162 | <u>J</u> | 0.0100 | 0.100 | |
| S) ,a-Trifluorotoluene(PID) | 103 | | | 79.0-125 | |
| S) ,a-Trifluorotoluene(FID) | 95.9 | | | 60.0-120 | |

Laboratory Control Sample (LCS)

| (LCS) R3662481-1 06/01/21 08:25 | | | | | | | | | | | |
|------------------------------------|--------------|------------|----------|-------------|---------------|--|--|--|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | | | | |
| Analyte | mg/l | mg/l | % | % | | | | | | | |
| TPHGAK C6 to C10 | 5.00 | 5.02 | 100 | 60.0-120 | | | | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | 133 | 79.0-125 | <u>J1</u> | | | | | | |
| (S) a.a.a-Trifluorotoluene(FID) | | | 102 | 60.0-120 | | | | | | | |



QUALITY CONTROL SUMMARY

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

L1356623-01,02,03,04,05,06,07,08

Method Blank (MB)

| (MB) R3661783-2 05/28/2 | 1 15:51 | | | |
|---------------------------|-----------|--------------|-----------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/l | | mg/l | 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 |
| o-Xylene | U | | 0.000174 | 0.00100 |
| m&p-Xylenes | U | | 0.000430 | 0.00200 |
| (S) Toluene-d8 | 105 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 90.4 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 113 | | | 70.0-130 |

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

| LCS) R3661783-1 05/28/21 14:10 • (LCSD) R3661783-5 05/29/21 00:00 | | | | | | | | | | | |
|---|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % | |
| Benzene | 0.00500 | 0.00439 | 0.00426 | 87.8 | 85.2 | 70.0-123 | | | 3.01 | 20 | |
| n-Butylbenzene | 0.00500 | 0.00521 | 0.00495 | 104 | 99.0 | 73.0-125 | | | 5.12 | 20 | |
| sec-Butylbenzene | 0.00500 | 0.00542 | 0.00494 | 108 | 98.8 | 75.0-125 | | | 9.27 | 20 | |
| tert-Butylbenzene | 0.00500 | 0.00539 | 0.00510 | 108 | 102 | 76.0-124 | | | 5.53 | 20 | |
| Ethylbenzene | 0.00500 | 0.00464 | 0.00461 | 92.8 | 92.2 | 79.0-123 | | | 0.649 | 20 | |
| Isopropylbenzene | 0.00500 | 0.00491 | 0.00484 | 98.2 | 96.8 | 76.0-127 | | | 1.44 | 20 | |
| Naphthalene | 0.00500 | 0.00391 | 0.00462 | 78.2 | 92.4 | 54.0-135 | | | 16.6 | 20 | |
| Toluene | 0.00500 | 0.00444 | 0.00420 | 88.8 | 84.0 | 79.0-120 | | | 5.56 | 20 | |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00532 | 0.00485 | 106 | 97.0 | 76.0-121 | | | 9.24 | 20 | |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00547 | 0.00497 | 109 | 99.4 | 76.0-122 | | | 9.58 | 20 | |
| o-Xylene | 0.00500 | 0.00448 | 0.00456 | 89.6 | 91.2 | 80.0-122 | | | 1.77 | 20 | |
| m&p-Xylenes | 0.0100 | 0.00953 | 0.00928 | 95.3 | 92.8 | 80.0-122 | | | 2.66 | 20 | |
| (S) Toluene-d8 | | | | 104 | 104 | 80.0-120 | | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.1 | 102 | 77.0-126 | | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 108 | 109 | 70.0-130 | | | | | |

Sc

QUALITY CONTROL SUMMARY

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

L1356623-01,02,03,04,05,06,07,08

L1356653-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1356653-13 05/28/21 21:37 • (MS) R3661783-3 05/28/21 22:59 • (MSD) R3661783-4 05/28/21 23:19

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Benzene | 0.00500 | 0.00226 | 0.00671 | 0.00660 | 89.0 | 86.8 | 1 | 17.0-158 | | | 1.65 | 27 |
| n-Butylbenzene | 0.00500 | 0.000708 | 0.00547 | 0.00527 | 95.2 | 91.2 | 1 | 31.0-150 | | | 3.72 | 30 |
| sec-Butylbenzene | 0.00500 | 0.00108 | 0.00598 | 0.00597 | 98.0 | 97.8 | 1 | 33.0-155 | | | 0.167 | 29 |
| tert-Butylbenzene | 0.00500 | 0.000392 | 0.00577 | 0.00570 | 108 | 106 | 1 | 34.0-153 | | | 1.22 | 28 |
| Ethylbenzene | 0.00500 | 0.00406 | 0.00827 | 0.00875 | 84.2 | 93.8 | 1 | 30.0-155 | | | 5.64 | 27 |
| Isopropylbenzene | 0.00500 | 0.00329 | 0.00800 | 0.00793 | 94.2 | 92.8 | 1 | 28.0-157 | | | 0.879 | 27 |
| Naphthalene | 0.00500 | 0.00371 | 0.00666 | 0.00721 | 59.0 | 70.0 | 1 | 12.0-156 | | | 7.93 | 35 |
| Toluene | 0.00500 | 0.00346 | 0.00774 | 0.00770 | 85.6 | 84.8 | 1 | 26.0-154 | | | 0.518 | 28 |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00358 | 0.00820 | 0.00849 | 92.4 | 98.2 | 1 | 26.0-154 | | | 3.48 | 27 |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.000763 | 0.00606 | 0.00598 | 106 | 104 | 1 | 28.0-153 | | | 1.33 | 27 |
| o-Xylene | 0.00500 | 0.00130 | 0.00605 | 0.00583 | 95.0 | 90.6 | 1 | 45.0-144 | | | 3.70 | 26 |
| m&p-Xylenes | 0.0100 | 0.00280 | 0.0120 | 0.0122 | 92.0 | 94.0 | 1 | 43.0-146 | | | 1.65 | 26 |
| (S) Toluene-d8 | | | | | 103 | 99.5 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 101 | 98.1 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 112 | 111 | | 70.0-130 | | | | |



















WG1678702

QUALITY CONTROL SUMMARY

Semi-Volatile Organic Compounds (GC) by Method AK102

L1356623-01,02,03,04,05,06,07

Method Blank (MB)

| (MB) R3660707-1 05/28 | 3/21 12:16 | | | |
|-----------------------|------------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/l | | mg/l | mg/l |
| AK102 DRO C10-C25 | U | | 0.229 | 0.800 |
| (S) o-Terphenyl | 111 | | | 60.0-120 |



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

| (LCS) R3660707-2 05/28/2112:36 • (LCSD) R3660707-3 05/28/2112:57 | | | | | | | | | | |
|--|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| AK102 DRO C10-C25 | 3.00 | 3.15 | 2.86 | 105 | 95.3 | 75.0-125 | | | 9.65 | 20 |
| (S) o-Terphenyl | | | | 137 | 127 | 60.0-120 | <u>J1</u> | <u>J1</u> | | |













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

| Appreviations and | a 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. |

| O 1:C | D |
|-----------|-------------|
| Qualifier | Description |
| Qualifici | DESCRIBLION |

| В | The same analyte is found in the associated blank. |
|----|---|
| 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. |



















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 ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina 1 | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio-VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| lowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO00356 |
| Kentucky 16 | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | Al30792 | Tennessee 1 4 | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | 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 5 | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| | | | |



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

TN00003

EPA-Crypto



















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

| Company Name/Address: | | | Billing Info | rmation: | | | | | A | nalvsis | / Contai | ner / Pre | servative | | | Chain of Custody | Page of |
|--|--|--|--------------------------------------|-------------------------------|--|-------------|-------------|---------|--------------------|----------------------------|-------------------|------------------------------|-----------|--------|--|--|--|
| Stantec - Anchorage, | AK - Speed | lway | | s Payable | | Pres Chk | | | | | | | | -1. | | 100 | |
| 725 E Fireweed Lane Suite 200 Anchorage. AK 99503 | | PO Box 15 Springfield | | pringfield, OH 45501 | | | | | | | | | | | | - Pace | Analytical |
| Report to: Mr. John Marshall | | | Email To: c | raig.cothron@ | pacelabs.com | | | | | | | | | | | | his chain of custody nent and acceptance of the |
| Project Description: Speedway 5325 | | City/State Collected: W.S.lla, | | | Please Ci PT MT C | | | | | | | | | | | Pace Terms and Condition https://info.pacelabs.con terms.pdf | n/hubfs/pas-standard- |
| Phone: 907-266-1108 | Client Project | 05363 | | STAAAKS | | 1 | | |)3 | | 3K | | | | | SDG # 13 | 26 |
| Collected by (print): | Site/Facility 0005325 | ID# | | P.O. # | | | İCI | Amb HCI | -HNC | -HCI | -HCI-E | | | | | Acctnum: STAA | AAKSSA |
| Collected by (signature): Immediately Packed on Ice N Y | Same | (Lab MUST Be Day Five Day 5 Day Day 10 Day Day | Day y (Rad Only) ay (Rad Only) | Rad Only) Date Results Needed | | No. | 40mlAmb HCl | 100ml | 250mlHDPE-HNO3 | C 40mlAmb-HCI | C 40mlAmb-HCI-BIK | | | | | Prelogin: P844 PM: 034 - Craig PB: | 300 |
| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | Cntrs | AK101 | AK102 | NAICP | V8260C | V8260C | | | | | Shipped Via: Fe | Sample # (lab only) |
| G-01 | 6 | GW | - | 5/18/2 | 1 1256 | 9 | X | X | X | X | 7 | | | 14 | - | y / | -01 |
| G-03 | 17 | GW | - | 5/18/11 | | 79- | X | X | X | Х | | | | | | 2 broken VOA | 00 |
| G-05 | 6 | GW | - | 5/18/21 | 1318 | 9 | X | Х | X | X | | | | | | | 03 |
| G-07 | U | GW | | 5/18/2 | 1 1137 | 9 | X | Х | X | X | | | | | SLEET. | of military was taken. | ou |
| MW16-02 | U | GW | | 5/18/2 | and the state of the state of the state of | 9 | X | Х | X | X | | | | | | | 04 |
| RW16-01 | 0 | GW | - | 5/18/21 | CONTRACTOR SERVICE CONTRACTOR SERVICES | 89 | X | X | X | X | | y | | | | I bicken UOA | G |
| DUP1 | 6 | GW | | 5/18/21 | PROFESSION AND ADDRESS OF THE PARTY OF THE P | 9 | X | Х | X | X | | | | | | | |
| TRIP BLANK | - | GW | - | 5/18/21 | 1300 | 1 | | 15 | | | X | | | | | Alexander of the second | |
| | | | | | | | | | | | | | | | | Service Control | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwate B - Bioassay WW - WasteWater | dwater B - Bioassay eWater ng Water Samples returned via: | | | | | | | | | pH Flow | - make | _ Temp _ Other | | COC | Seal P Signed tles ar | ple Receipt Che resent/Intact: /Accurate: rive intact: ttles used: | Cklist NP N N |
| DW - Drinking Water OT - Other | | | | | | 06 1728 | | | | 2212 | | | | | Sufficient volume sent: If Applicable VOA Zero Headspace: Y N | | |
| Relinquished by a (Signature) | 5/20/21 09 | | Received by: (Signal | | | | | | Trip Blank Receive | | | Vesy No HCL / MeoH TBR | | Screen | ervation Correct/Checked:N Screen <0.5 mR/hr:N | | |
| Relinquished by : (Signature) Date: | | Date: | Time | e: R | eceived by: (Signa | ature) | | | | Temp: °C Bottles Received: | | | | | If preservation required by Login: Date/Time | | |
| Relinquished by : (Signature) | | Date: | Time | e: R | eceived for lab by | : (Signat | ture) | | | Date: | 16 | Time | 1.37 | Holo | i: | | Condition: NCF / Ok |

Laboratory Data Review Checklist

| Completed By: | |
|----------------------------------|----|
| Jeremiah Malenfant | |
| Title: | |
| Intern, Environmental Services | |
| Date: | |
| 6/25/21 | |
| Consultant Firm: | |
| Stantec Consulting Services Inc. | |
| Laboratory Name: | |
| Pace Analytical | |
| Laboratory Report Number: | |
| L1356623 | |
| Laboratory Report Date: | |
| 6/9/21 | |
| CS Site Name: | |
| Speedway 5325 (Tesoro 2Go Mart 5 | 2) |
| ADEC File Number: | |
| 2265.26.006 | |
| Hazard Identification Number: | |
| 648 | |

| L1356623 | |
|---|---|
| Laboratory Report Date: | |
| 6/9/21 | |
| CS Site Name: | |
| Speedway 5325 (Tesoro 2Go Mart 52) | |
| Note: Any N/A or No box checked must have an explanation in the comments box. | |
| 1. <u>Laboratory</u> | |
| a. Did an ADEC CS approved laboratory receive and <u>perform</u> all of the submitted sample analyses | ? |
| Yes⊠ No□ N/A□ Comments: | |
| b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved? | |
| Yes⊠ No□ N/A□ Comments: | |
| 2. Chain of Custody (CoC) a. CoC information completed, signed, and dated (including released/received by)? Yes⊠ No□ N/A□ Comments: | |
| b. Correct analyses requested? Yes⊠ No□ N/A□ Comments: | |
| | |
| 3. <u>Laboratory Sample Receipt Documentation</u> | |
| a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)? | |
| Yes⊠ No□ N/A□ Comments: | |
| b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)? | |
| Yes⊠ No□ N/A□ Comments: | |
| | |

| L1356623 |
|---|
| Laboratory Report Date: |
| 6/9/21 |
| CS Site Name: |
| Speedway 5325 (Tesoro 2Go Mart 52) |
| c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)? |
| $Yes \boxtimes No \square N/A \square$ Comments: |
| 3 total broken VOA samples: two from G-03 and one from RW16-01 |
| 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, etc.? |
| $Yes \boxtimes No \square N/A \square$ Comments: |
| |
| e. Data quality or usability affected? |
| Comments: |
| |
| Extreme dilution (1.05 – 200x) in samples from RW16-01 as well as DRO diluted to 10x in G-03 |
| 4. <u>Case Narrative</u> |
| a. Present and understandable? |
| Yes \boxtimes No \square N/A \square Comments: |
| Tese Not N/At Comments. |
| b. Discrepancies, errors, or QC failures identified by the lab? |
| Yes \boxtimes No \square N/A \square Comments: |
| |
| c. Were all corrective actions documented? |
| Yes⊠ No□ N/A□ Comments: |
| |
| d. What is the effect on data quality/usability according to the case narrative? |
| Comments: |
| Case narrative states that all anomalies which might affect data quality are noted, but does not note |
| any specific impacts on data quality. |

| Laboratory Report Date: 6/9/21 CS Site Name: Speedway 5325 (Tesoro 2Go Mart 52) 5. Samples Results a. Correct analyses performed/reported as requested on COC? Yes⊠ No□ N/A□ Comments: b. All applicable holding times met? Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A⊠ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | L1356623 | |
|--|--------------------------------|---|
| CS Site Name: Speedway 5325 (Tesoro 2Go Mart 52) | Laboratory Report Date: | |
| Speedway 5325 (Tesoro 2Go Mart 52) 5. Samples Results a. Correct analyses performed/reported as requested on COC? Yes⊠ No□ N/A□ Comments: b. All applicable holding times met? Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A□ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | 6/9/21 | |
| a. Correct analyses performed/reported as requested on COC? Yes⊠ No□ N/A□ Comments: b. All applicable holding times met? Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A□ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | CS Site Name: | |
| a. Correct analyses performed/reported as requested on COC? Yes⊠ No□ N/A□ Comments: b. All applicable holding times met? Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A☒ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No☒ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | Speedway 5325 (Tesoro 2Go Mar | rt 52) |
| b. All applicable holding times met? Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A☒ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No☒ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | 5. <u>Samples Results</u> | |
| b. All applicable holding times met? Yes No N/A Comments: c. All soils reported on a dry weight basis? Yes No N/A Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes No N/A Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | a. Correct analyses performe | ed/reported as requested on COC? |
| Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A⊠ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | Yes⊠ No□ N/A□ | Comments: |
| Yes⊠ No□ N/A□ Comments: c. All soils reported on a dry weight basis? Yes□ No□ N/A⊠ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | | |
| c. All soils reported on a dry weight basis? Yes□ No□ N/A☒ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No☒ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | b. All applicable holding tim | es met? |
| Yes□ No□ N/A☒ Comments: d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No☒ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | Yes⊠ No□ N/A□ | Comments: |
| d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | - | - |
| the project? Yes□ No⊠ N/A□ Comments: High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | YESLI NOLI N/A | Comments. |
| High dilution in samples from RW16-01 caused the LOQ to be above the Cleanup Level for BTEX (except Toluene) e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | | ss than the Cleanup Level or the minimum required detection level for |
| e. Data quality or usability affected? The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | | |
| The reported values for Ethylbenzenes and Xylenes in RW16-01 were above the cleanup levels | 1 0 | RW16-01 caused the LOQ to be above the Cleanup Level for BTEX |
| | e. Data quality or usability a | ffected? |
| regardless of the LOQ, but for Benzene it is unknown whether there is an exceedance or not because of the elevated LOQ. | regardless of the LOQ, but for | |
| 6. QC Samples | 6. QC Samples | |
| a. Method Blank | a. Method Blank | |
| i. One method blank reported per matrix, analysis and 20 samples? | | ported per matrix, analysis and 20 samples? |
| $Yes \boxtimes No \square N/A \square$ Comments: | Yes⊠ No□ N/A□ | Comments: |

| L1356623 | | | | | | |
|--|--|--|--|--|--|--|
| Laboratory Report Date: | | | | | | |
| 6/9/21 | | | | | | |
| CS Site Name: | | | | | | |
| Speedway 5325 (Tesoro 2Go Mart 52) ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives? Yes□ No⊠ N/A□ Comments: | | | | | | |
| | | | | | | Method blanks for GRO by method AK101 are above the MDL |
| | | | | | | iii. If above LOQ or project specified objectives, what samples are affected? Comments: |
| G-01, G-05, and G-07 are affected | | | | | | |
| iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes⊠ No□ N/A□ Comments: | | | | | | |
| Yes; affected samples are marked with the "B" tag. | | | | | | |
| v. Data quality or usability affected? Comments: | | | | | | |
| No; the concentrations detected in the method blanks are well below the Cleanup Level | | | | | | |
| b. Laboratory Control Sample/Duplicate (LCS/LCSD) | | | | | | |
| i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) | | | | | | |
| $Yes \boxtimes No \square N/A \square$ Comments: | | | | | | |
| ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and samples? Yes⊠ No□ N/A□ Comments: | | | | | | |
| Tes Not IVAL Comments. | | | | | | |
| iii. Accuracy – 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: | | | | | | |
| Both GRO and DRO Laboratory Control Samples had recovery percentages outside the recovery limits. | | | | | | |

| L1 | 1356623 | | | | | | |
|-------|--|--|--|--|--|--|--|
| Labor | atory Report Date: | | | | | | |
| 6/9 | 9/21 | | | | | | |
| CS Si | CS Site Name: | | | | | | |
| Sp | Speedway 5325 (Tesoro 2Go Mart 52) | | | | | | |
| | iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) | | | | | | |
| | $Yes \boxtimes No \square N/A \square$ Comments: | | | | | | |
| | v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments: | | | | | | |
| | G-01, G-05, and G-07 for GRO, and G-01 for DRO as well | | | | | | |
| | vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \boxtimes No \square N/A \square Comments: | | | | | | |
| | vii. Data quality or usability affected? (Use comment box to explain.) Comments: | | | | | | |
| | The affected values are below ADEC Cleanup levels and were influenced by issues identified in section above. | | | | | | |
| | c. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Note: Leave blank if not required for project i. Organics – One MS/MSD reported per matrix, analysis and 20 samples? | | | | | | |
| | $Yes \boxtimes No \square N/A \square$ Comments: | | | | | | |
| | ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples? Yes ⊠ No□ N/A□ Comments: | | | | | | |
| | iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes⊠ No□ N/A□ Comments: | | | | | | |

| L1356623 |
|--|
| Laboratory Report Date: |
| 6/9/21 |
| CS Site Name: |
| Speedway 5325 (Tesoro 2Go Mart 52) |
| iv. Precision – 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: |
| |
| 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: |
| |
| vii. Data quality or usability affected? (Use comment box to explain.) Comments: |
| No. |
| 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: |
| |
| ii. Accuracy – 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: |
| |
| 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: |
| TOU IVIL COMMENS. |

| | L1356623 | | | | | | |
|---|---|--|--|--|--|--|--|
| Lab | oratory Report Date: | | | | | | |
| | 6/9/21 | | | | | | |
| CS | Site Name: | | | | | | |
| | Speedway 5325 (Tesoro 2Go Mart 52) | | | | | | |
| | iv. Data quality or usability affected? Comments: | | | | | | |
| N/A | | | | | | | |
| | e. Trip Blanks | | | | | | |
| | i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.) | | | | | | |
| | $Yes \boxtimes No \square N/A \square$ Comments: | | | | | | |
| | | | | | | | |
| ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the CO (If not, a comment explaining why must be entered below) | | | | | | | |
| | Yes⊠ No□ N/A□ Comments: | | | | | | |
| | | | | | | | |
| | iii. All results less than LOQ and project specified objectives? | | | | | | |
| | $Yes \boxtimes No \square N/A \square$ Comments: | | | | | | |
| | | | | | | | |
| | iv. If above LOQ or project specified objectives, what samples are affected? Comments: | | | | | | |
| | | | | | | | |
| v. Data quality or usability affected? Comments: | | | | | | | |
| | | | | | | | |
| | f. Field Duplicate | | | | | | |
| i. One field duplicate submitted per matrix, analysis and 10 project samples? | | | | | | | |
| | $Yes \boxtimes No \square N/A \square$ Comments: | | | | | | |

| L1356623 |
|---|
| Laboratory Report Date: |
| 6/9/21 |
| CS Site Name: |
| Speedway 5325 (Tesoro 2Go Mart 52) |
| ii. Submitted blind to lab? |
| $Yes \boxtimes No \square N/A \square$ Comments: |
| |
| iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil) RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$ |
| Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration |
| Yes⊠ No□ N/A□ Comments: |
| estimated values were given for some of the duplicate values |
| iv. Data quality or usability affected? (Use the comment box to explain why or why not.) Comments: |
| |
| g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)? |
| $Yes \square No \square N/A \boxtimes Comments:$ |
| All disposable containers used. |
| i. All results less than LOQ and project specified objectives? |
| $Yes \square No \square N/A \boxtimes Comments:$ |
| |
| ii. If above LOQ or project specified objectives, what samples are affected? Comments: |
| |
| iii. Data quality or usability affected? Comments: |
| |

| | L1356623 | | | | | | | |
|----|--|-----------|--|--|--|--|--|--|
| La | Laboratory Report Date: | | | | | | | |
| | 6/9/21 | | | | | | | |
| CS | CS Site Name: | | | | | | | |
| | Speedway 5325 (Tesoro 2Go Mart | 52) | | | | | | |
| 7. | 7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.) | | | | | | | |
| | a. Defined and appropriate? | | | | | | | |
| | Yes⊠ No□ N/A□ | Comments: | | | | | | |