



Environment

Prepared for:
Chevron Environmental Management
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ExxonMobil Refining & Supply

Prepared by:
AECOM
1111 Third Avenue.
Suite 1600
Seattle, WA 98101
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2023 Annual Progress Report

D Street Petroleum Site

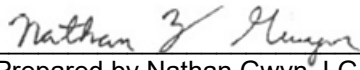
Tacoma, Washington

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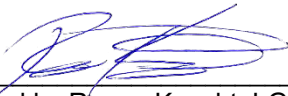
2023 Annual Progress Report

D Street Petroleum Site

Tacoma, Washington



Prepared by Nathan Gwyn, LG, Geologist III



Reviewed by Renee Knecht, LG, Project Manager

PROFESSIONAL CERTIFICATION

2023 Annual Progress Report
D Street Petroleum Site
Tacoma, Washington

January 22, 2024

This report has been prepared by the staff of AECOM Environment under the professional supervision of the person whose seal and signature appear hereon.



Renee J. Knecht

Renee Knecht, LG

AECOM

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List of Abbreviations and Acronyms

Ag/AgCl	Silver Chloride
bgs	Below Ground Surface
BP	British Petroleum
BTEX	Benzene, Toluene, Ethylbenzene, Total Xylenes
C	Degrees Celsius
CO ₂	Carbon Dioxide
DO	Dissolved Oxygen
Ecology	Washington State Department of Ecology
E _H	Redox Potential
EPA	United States Environmental Protection Agency
Fe ²⁺	Ferrous Iron
Fe ³⁺	Ferric Iron
GWSDAT	Groundwater Spatio-Temporal Data Analysis Tool (created by Shell Global Solutions)
KCl	Potassium Chloride
lbs	Pounds
LLC	Limited Liability Company
MFA	Maul Foster & Alongi
mg/L	Milligrams per liter
Mn ²⁺	Soluble Manganese
MNA	Monitored Natural Attenuation
mV	Millivolts
NAVD	North American Vertical Datum
NAVD 88	North American Vertical Datum of 1988
No.	Number
OPL	Olympic Pipeline Company
ORP	Oxidation Reduction Potential
PLP	Potentially Liable Parties
SVE	Soil Vapor Extraction
TPH	Total Petroleum Hydrocarbons
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-G	Total Petroleum Hydrocarbons as Gasoline
TPH-O	Total Petroleum Hydrocarbons as Heavy Oil
TPH-O&G	Total Petroleum Hydrocarbons as Oil and Grease
URS	URS Corporation

Executive Summary

AECOM prepared this Annual Progress Report for the D Street Petroleum Site (the Site) to document groundwater sampling and natural attenuation assessment through the fourth quarter of 2023 and to describe changes to the monitoring program and future planned activities at the Site.

The D Street Petroleum Site is an active bulk petroleum storage and distribution facility where historical releases of petroleum products have occurred. Site activities and established cleanup standards are driven by the requirements stipulated in Consent Decree Number (No.) 91-2-2012-1, effective September 3, 1991. Historical concentrations have been reduced over time through active remediation and natural attenuation. Residual concentrations of benzene in the upper groundwater bearing unit (i.e., upper sand unit) exceed cleanup standards in only a few wells in the interior of the Site. Petroleum hydrocarbons have not been detected in the deeper groundwater bearing unit (i.e., lower sand unit) at elevated concentrations since 2006; however, concentrations of total petroleum hydrocarbons (TPH) in the diesel range (TPH-D) have fluctuated slightly in well DMW-2 over the years. Benzene was detected in well DMW-2 at a concentration just above the surface water cleanup level during 2012 but decreased and has remained below the surface water cleanup level since the December 2012 sampling event.

Remedial activities began at the Site in 1988 with free product recovery. The Consent Decree was developed for the Site in September 1991 and required a groundwater extraction and treatment system and a soil vapor extraction (SVE) system. The system was installed in 1992 and expanded in 2003 to include new and existing groundwater and vapor extraction recovery wells. No free product has been detected at the Site since December 2005, except for a trace amount observed in wells B-31 (September 2010) and FW-5R (September 2011 and September 2012). Potential free product was observed in well MW-2 in 2014/2015, and during the June 2016 and the September 2019 sampling events. This material was analyzed in 2014 and did not contain benzene, toluene, ethylbenzene, and xylenes (BTEX) or elevated levels of TPH; therefore, the material may not be associated with terminal operations. The remedial system remained in operation until October 2006 and was decommissioned in March 2011. Initial vacuum extraction events were conducted at wells DMW-2 and FW-5R in October 2012 and September 2015; however, as a proactive measure to remove contaminated groundwater in these locations due to their proximity to the Thea Foss Waterway, vacuum extraction events were conducted at these locations quarterly since November 2015. On February 12, 2020, Washington State Department of Ecology (Ecology) emailed approval of the cessation of vacuum extraction events at DMW-2 and vacuum extraction has been conducted on only FW-5R since 2020.

Groundwater has been sampled regularly at the Site since 1992. Following the shut-down of the remedial system in 2006, natural attenuation parameters were added to the groundwater sampling program to assess natural attenuation conditions. The current groundwater monitoring program includes 30 wells sampled either semi-annually or annually for BTEX; and TPH in the gasoline range (TPH-G), TPH-D, and heavy oil range (TPH-O). Select wells are also analyzed for naphthalene on a semi-annual or annual basis. 29 of the 30 wells are analyzed for lead (total and dissolved) and supplemental natural attenuation parameters on an annual basis. However, the well casing of DMW-4 was damaged in 2021 and the well has been inaccessible during subsequent monitoring events.

Ecology identifies five factors to assess plume characteristics and to indicate whether natural attenuation is a viable approach to a site remedy. These factors are discussed in this report and include the stability of the contaminant plume, geochemical evidence of biodegradation, restoration time frame, protectiveness of human health and the environment, and effectiveness of source control.

A Mann Kendall trend analysis of the monitoring data provides the statistical concentration trends for benzene, TPH-G, and TPH-D. The results of the trend analysis indicate wells at the Site are decreasing, stable, or predominantly non-detect / low level for benzene. Benzene concentrations did not exceed the surface water cleanup level in any wells during the 2023 events. TPH-G concentrations in most wells at the Site are decreasing, stable, or predominantly non-detect / low level. The TPH-G plume margin remains relatively stable. TPH-D concentrations indicate decreasing or stable trends in wells in different areas of the Site. Higher concentrations of TPH-D remain in several wells, compared to other wells at the Site; however, the TPH-D plume margin remains stable at the Site.

The spatial distribution of the groundwater contaminant plume varies by constituent and area of the Site. The benzene plume margin has receded in the area of RW-5R and remains relatively stable or is potentially migrating between wells in the area of HC-111. The TPH-G plume margin remains relatively stable although the concentrations overall have been reduced both in the area of RW-5R and HC-111. The TPH-D plume margin remains stable at the Site. The concentrations fluctuate particularly in the area of HC-111, indicating potential migration between wells in the area of HC-111, but concentrations have overall reduced in the area of RW-5R.

The geochemical analyses provide evidence that natural attenuation is occurring at the Site. Accordingly, the redox conditions do not appear to favor aerobic activity and are instead most favorable for the anaerobic pathways. The alkalinity results provide additional support biodegradation is occurring at the Site.

A restoration time frame cannot be applied for benzene and the dissolved-phase contaminant plume across the Site. However, a restoration time frame was able to be calculated for well HC-111. The restoration time frame value for HC-111 was September 2018. Additionally, benzene concentrations in HC-111 have not exceeded the groundwater cleanup level since December 2018. The benzene contaminant plume continues to attenuate and has reached restoration levels near RW-5R.

A contingency plan has been developed for the Site to identify procedures if groundwater action levels are exceeded. The contingency plan includes the monitoring of sentinel wells and surface water compliance wells. No contingency actions were necessary during this reporting period.

1.0 Introduction

This document is the 2023 Annual Progress Report for the D Street Petroleum Site located at 520 East D Street in Tacoma, Washington (Site). This document summarizes groundwater sampling activities for the 2023 program, evaluates groundwater analytical and natural attenuation data through the fourth quarter 2023, interprets natural attenuation activity at the Site, and proposes activities for the ongoing site program.

AECOM prepared this report on behalf of the D Street Potentially Liable Parties (PLP) Group, ExxonMobil Refining and Supply/Environmental Services (ExxonMobil, formerly Mobil), Shell Oil Company (Shell), and Phillips 66 Company (Phillips 66, formerly ConocoPhillips) in accordance with Consent Decree No. 91-2-2012-1. The Phillips 66 Company (formerly ConocoPhillips) transferred control of its allocated share of the D Street Petroleum Group to Chevron Environmental Management Company, effective April 1, 2011. In 2021, the Chevron Environmental Management Company transferred control of its allocated share of the D Street Petroleum Group to Phillips 66 Company (formerly ConocoPhillips), effective July 2, 2021.

1.1 Site Description and Background

The Site is located in the City of Tacoma, Pierce County, Washington on a peninsula in Commencement Bay, as shown on Figure 1. The Site is bounded to the west by the Thea Foss Waterway; to the east by East F Street and the Middle Waterway; to the north by various industrial properties, East 3rd Street, and Commencement Bay; and to the south by various industrial properties and East 11th Street. The area of the Site is approximately 17 acres.

The Site is an active bulk petroleum storage and distribution facility currently operated by Phillips 66 and previously operated by Mobil, British Petroleum (BP), Unocal/76 Products, and Tosco. The south and southwest portion of the Site was formerly a Shell property and is currently used for manufacturing by Globe Machine Manufacturing and for seafood processing. The northeast portion of the Site is currently owned and operated by Targa Sound Terminal LLC (Targa) and is vacant with the exception of the Tacoma Delivery Facility, a pump station operated by Olympic Pipeline Company (OPL). Targa purchased this property from Shell in June 2012. Figure 2 shows the operational areas and other site features.

1.2 Site Conditions

Previous remedial investigations at the Site identified total petroleum hydrocarbons (TPH) in the gasoline range (TPH-G), TPH in the diesel range (TPH-D), and benzene, toluene, ethylbenzene, and xylenes (BTEX) as the contaminants of concern in soil and groundwater. A hydrogeologic evaluation conducted at the Site identified four shallow geologic units (Hart Crowser, 1990; Maul Foster & Alongi, 2001). The uppermost groundwater unit, which is designated as the “upper sand unit,” consists of fill composed of primarily silty sand and sandy silt. The upper sand unit is approximately 10 feet to 18 feet thick and is underlain by a laterally continuous, native silt layer that is approximately 0.5 feet to 5 feet thick. This silt layer represents a semi-confining layer between the upper and lower groundwater units. The silt layer is underlain by a fine- to medium-grained sand that is approximately 4 feet to 11 feet thick. The sand is designated as the “lower sand unit.” A laterally discontinuous silt unit underlies the lower sand unit, where present.

Unconfined groundwater occurs within the upper sand unit at a depth of approximately 5 feet to 9 feet below the ground surface (bgs). Semi-confined groundwater conditions occur in the lower sand unit. Previous reports have typically mapped the groundwater flow direction in the upper and lower sand units as predominantly to the southwest toward the Thea Foss Waterway. The groundwater in both the upper and lower sand units is influenced by tidal fluctuations which complicate interpretation of groundwater flow, especially in areas closer to the shoreline.

A limited tidal assessment conducted in 1989 characterized the response to tidal fluctuation in both the upper and lower sand units (Hart Crowser, 1990). The results indicated that tidal influences in both the upper and lower sand units are stronger in areas of the Site adjacent to the Thea Foss Waterway than those areas that are farther upland. Separate groundwater “troughs” that shifted the groundwater gradient inward or upland from Thea Foss

Waterway during periods of high tide were documented in the upper and lower sand units. The upper sand unit trough aligns generally parallel to the waterway between D Street and the waterway in the southwest area of the Site (Figures 8 through 10, Hart Crowser, 1990), and the lower sand unit trough parallels East E Street. In addition, groundwater flow patterns had been observed to change in the vicinity of the OPL pump station, along a groundwater divide where the groundwater flow direction in the upper sand unit has shifted from west-southwest to the south or southeast. At intermediate and low tides, the groundwater gradient is toward Thea Foss Waterway from a divide that parallels East D Street and East E Street (Hart Crowser, 1990).

Following the installation of additional wells in the lower sand unit, Maul Foster & Alongi (MFA) (2001) evaluated the tidal response of the lower sand unit in May 2001. MFA found that the wells adjacent to the Thea Foss Waterway responded to tidal influence and displayed similar time lags (i.e., time between peak in waterway versus peak in well) to those in the upper sand unit. The tidal responses in some lower sand unit wells were greater than in upper sand unit wells leading MFA to conclude that water levels in the lower sand unit are very responsive to tidal fluctuations.

In 2011, a more extensive tidal study was conducted by URS to analyze the influence of tidal stages on groundwater flow patterns and contaminant concentrations in the upper sand unit. Like the previous studies, the 2011 study showed a more significant tidal influence near the shoreline as compared to inland. However, the groundwater gradient (and inferred groundwater flow) across the Site was not always toward the Thea Foss Waterway, as was previously concluded by Hart Crowser. Instead, the 2011 study found that the gradient steepens toward the Thea Foss Waterway only in the narrow area between the RR-series wells and the waterway (URS, 2012). Similar to the 1989 study, the 2011 study found that the hydraulic gradient in the interior of the Site is very flat with little appreciable hydraulic gradient. The 2011 study concluded that there is a strong potential that contaminant flow via groundwater discharge to the waterway is *de minimis*. The results also indicate that while steady-state or continuous flow is prevented, it does not necessarily prevent groundwater transport altogether. The hydraulic conditions at the Site prevent steady-state flow from upland locations and severely diminish transport of dissolved contamination to the waterway (URS, 2012).

Historical detections of contaminants in groundwater indicate that the contaminants of concern are found primarily in the upper sand unit. Benzene has been detected at concentrations above site groundwater cleanup standards (See Section 1.3) in sampling conducted since 2006. Historically, ethylbenzene was also detected at concentrations above site groundwater cleanup standards. No contaminants of concern have been detected above the Site groundwater cleanup standards in the lower sand unit, except in well DMW-2 where benzene was detected at concentrations above the surface water cleanup level, but below the site groundwater cleanup level during sampling events from September 2011 to September 2012. Historical groundwater analytical results are tabulated in Appendix A. Analytical data from the quarterly sampling events can be found in the individual quarterly reports, which are submitted to Washington State Department of Ecology (Ecology).

1.3 Site Cleanup Standards

Consent Decree No. 91-2-2012-1, executed by Ecology and D Street PLP Group representatives, effective September 3, 1991 established cleanup standards for the Site. As written in Exhibit B of the Consent Decree, the cleanup standards for groundwater are based on the protection of surface water and include the provision for a dilution factor of at least four (i.e., 4x) based on surface water intrusion to groundwater before the point of discharge.

The groundwater is mostly brackish (salinity less than 30 parts per thousand) in both the upper and lower sand units beneath the Site. The D Street site groundwater is non-potable, and it is not characterized as a beneficial, potable water source (Hart Crowser, 1990). Also, the groundwater has an extremely low probability of being used as future source of drinking water, which is similar to the exemption for Harbor Island (Ecology, 2005).

The discharge water quality from the Site to the Thea Foss Waterway is the main environmental concern at the Site. The Consent Decree stipulates that the cleanup level for groundwater, which discharges to surface water, is based on a point of compliance in the surface water at the groundwater interface (WAC 173-340-720(8)(d)). Therefore, the point of compliance for the surface water is the Thea Foss Waterway and the wells located closest to the water (i.e., monitoring wells set into the riprap as close as possible to the waterway). In the upper sand unit, this correlates to the surface water compliance wells (i.e., RR- series wells located near the waterway).

The point of compliance for the groundwater is throughout the Site, including both the upper sand unit and lower sand unit. The ultimate goal is to achieve groundwater cleanup standards in wells in both the upper sand unit and lower sand unit throughout the Site, to the extent that such a goal may be necessary to demonstrate protection of the environment.

Separate cleanup standards were established in the Consent Decree for surface water and groundwater for specific contaminants (benzene, toluene, and ethylbenzene). Groundwater and surface water cleanup standards were also established for oil and grease (TPH-O&G); however, due to the small number of detections for this dated analysis, TPH O&G is no longer included in the groundwater monitoring program. Site cleanup standards were not established for TPH-G, TPH-D, or TPH-O. The TPH-G, TPH-D, and TPH-O ranges correspond to hydrocarbon constituents with carbon ranges of <C10, C10 to C25, and C25 to C36, respectively. It should be noted that TPH-O&G is not the same as TPH-O or TPH-G. The groundwater and surface water cleanup standards, as stipulated in Exhibit B of the Consent Decree, are shown in Table 2 and Table 3.

Discussion with Ecology regarding development of TPH action levels resulted in a decision that no site-specific TPH cleanup levels would be developed. TPH-G and TPH-D will continue to be managed with ongoing monitoring and completion of vacuum extraction events as warranted. Additionally, it was decided that naphthalene would be added to the ongoing groundwater monitoring network for select sentinel and surface water compliance wells.

1.4 Remedial Actions

Remedial actions at the Site began in 1988 with free product recovery on the Globe Machine Manufacturing property and near the intersection of 7th Street and D Street. Operations continued through 1992, reportedly recovering approximately 94,764 gallons of free product (Hart Crowser, 1992). As stipulated in the Consent Decree, a groundwater extraction and treatment system and a soil vapor extraction (SVE) system were installed at the Site in 1992. The remediation systems were installed adjacent to Thea Foss Waterway and parallel with East D Street. The systems were operated through 2002. Approximately 17,246,665 gallons of groundwater and approximately 5,639 gallons of free product were recovered by the groundwater extraction system during operation. An additional estimated 193,322 pounds (lbs) of vapor-phase petroleum hydrocarbons were recovered by the SVE system (MFA, 2002).

In 2003, the remedial system was expanded to include a groundwater and vapor extraction system from new and existing recovery wells as well as the installation of new system equipment (Landau Associates, 2003). The expanded system included existing groundwater and vapor extraction wells (E-6, E-7, and MR-1); new groundwater and vapor extraction wells (RW-26 through RW-29); and existing vapor extraction recovery wells (HC-106 through HC-111), which surround Tank No. 1. The remedial system was operated at the Site through October 2006, and approximately 6,837 lbs of vapor-phase petroleum hydrocarbons were recovered through vapor extraction.

Ecology allowed temporary shutdown of the remediation systems (groundwater extraction and SVE) in October 2006 to monitor and evaluate natural attenuation (Landau Associates, 2006; Ecology, 2006). Field observations and groundwater data collected to date indicate that the remedial system had effectively removed the bulk of free product at the Site. No free product was recovered by the remediation system after 2002; therefore, the lowest technically achievable contaminant concentrations were reached with the remediation system (Landau Associates, 2007a). The treatment system was decommissioned in March 2011. All system equipment was removed, with no future treatment or discharge of groundwater anticipated at the Site. The permit (Industrial Wastewater Discharge Permit #TAC-011-2008) was closed out with the City of Tacoma as of May 25, 2011.

No free product has been observed in any of the wells at the Site since December 2005, except for a limited amount detected in wells B-31, FW-5R, MW-2, RW-17, and RW-24. No free product was detected during the groundwater sampling activities for the 2023 program. Free product gauging and results are further discussed in Section 2.1 and Section 3.2.5.

Due to their proximity to the Thea Foss Waterway, a vacuum extraction event to remove contaminated groundwater was conducted at wells DMW-2 and FW-5R in October 2012. A total of approximately 3,489 gallons of groundwater and trace amounts of free product were removed from the wells and treated off-site. The presence of free product was not detected in well FW-5R by subsequent well gauging.

A total of 19 wells and 6 vaults from the old treatment system were abandoned in September/October 2013. Piping and equipment were removed from the vaults.

A well survey was completed in October 2013 to collect updated well information for all remaining site wells and correct for older well elevation information that was missing a proper survey benchmark. The full site groundwater well network is now benchmarked to the North American Vertical Datum (NAVD) 88 datum with exception of monitoring wells E-20, FW-15, and MW-2.

Vacuum extraction has been conducted quarterly at wells DMW-2 and FW-5R since September 2015 as a proactive measure to remove contaminated groundwater from these locations due to their proximity to the Thea Foss Waterway. This was driven by elevated concentrations of TPH-G and TPH-D in these wells as well as naphthalene in FW-5R (observed during 2014 sampling events which included additional analytical parameters). On February 12, 2020, Ecology emailed approval of the cessation of vacuum extraction events at DMW-2 and vacuum extraction has been conducted on only FW-5R since 2020, prior to sampling events. A total of approximately 1,710 gallons of groundwater were removed during the 2023 groundwater program, bringing the total groundwater removed from the wells and treated off-site to approximately 52,217 gallons to date. No free product has been observed in the wells since the October 2012 extraction event.

1.5 Site Monitoring and Natural Attenuation

Groundwater and surface water compliance monitoring has been conducted at the Site on a regular basis since 1992 in order to assess the progress and effectiveness of the remediation systems and to evaluate the progress of contaminant attenuation in groundwater. During operation of the SVE system, soil vapor monitoring was also conducted to assess the progress and effectiveness of the system.

A groundwater sampling and monitored natural attenuation (MNA) program has been performed at the Site since the groundwater extraction and treatment system was shut down in October 2006. MNA data were collected at the Site monthly during the fourth quarter 2006 and quarterly thereafter (Landau Associates, 2007a; 2008). Evaluation of MNA data collected after October 2006 indicated that anaerobic biodegradation processes are occurring at the Site and the dissolved-phase hydrocarbon plume is primarily stable or shrinking, with few exceptions (Landau Associates, 2007a; 2007b; 2008; 2009a; 2009b). In correspondence between Landau Associates and Ecology in October and November 2008, Ecology indicated natural attenuation is occurring at the Site and a formal request should be submitted to authorize a long-term groundwater sampling and MNA program (Ecology, 2008).

An MNA Evaluation Report and Groundwater Performance Monitoring Plan was submitted to Ecology in February 2011 which included an evaluation of contaminant and MNA data through fourth quarter 2009 and a revised well network and sampling program (URS, 2011a). Quarterly groundwater sampling at the Site continued and annual reports summarizing the groundwater sampling activities were submitted to Ecology. The following sections summarize sampling activities and evaluate natural attenuation processes occurring at the Site through the fourth quarter 2023.

2.0 Groundwater Sampling

This section summarizes the groundwater sampling activities and MNA data collected at the Site between the second quarter 2023 (April 2023) and the fourth quarter of 2023 (October 2023), including groundwater sampling, analytical procedures, and data review.

2.1 Summary of Sampling Activities

The 2023 program consisted of semi-annual sampling in April and October 2023. Quarterly reports summarizing the sampling activities, analytical results, and data review have been submitted to Ecology (AECOM 2023a, 2023b, 2023c). The fourth, first and third quarter reports recorded no activity completed as the program has been reduced to semi-annual sampling. The fourth quarter (October 2023) sampling event is summarized in this report. Figure 2 shows the well network for the 2023 program.

AECOM measured the depth to water and free product, if present, in 39 upper sand unit wells, 7 surface water compliance wells, and 5 lower sand unit monitoring wells. Free product was not observed in any monitoring wells. Table 1 summarizes the groundwater elevations and free product gauging for the 2023 program.

Groundwater elevation contour maps are not provided due to variability in the groundwater elevation data caused by tidal influences and other factors. However, groundwater contour maps were generated from select wells for both low and high tide in the Tidal Assessment and Biotreatability Report (URS, 2012). As discussed in Section 1.2, the groundwater flow pattern shows strong tidal influence near the Thea Foss Waterway where the gradient steepens toward the shoreline in the area immediately adjacent to the shoreline and shows a relatively flat hydraulic gradient in the interior of the Site approaching East F Street.

During the October 2023 annual sampling event, groundwater samples were collected from 29 wells, including the following:

- Nineteen upper sand unit groundwater monitoring wells (B-17B, B-19, B-25, B-31, B-34, E-21, E-22, FW-3, FW-4, FW-5R, FW-14, G-8, G-18, RW-5R, T-2, and T-3) including one inactive soil vapor extraction well (HC-111) and two inactive groundwater/vapor recovery wells (RW-2 and RW-8). Wells E-22, FW-3, FW-4, FW-5R, FW-14, and T-2 also serve as sentinel wells.
- Four lower sand unit groundwater monitoring wells (DMW-1 through DMW-3 and FW-13). DMW-4 was damaged in 2021 and has been unable to be sampled.
- Six surface water compliance monitoring wells (FW-15 and RR-1 through RR-5). Surface water compliance well RR-5 is not located in the rip-rap and due to the distance from the waterway is more appropriately considered a sentinel well. However, for the purposes of reporting and consistency with the original well installation documentation, it will continue to be categorized as a surface water compliance monitoring well.

The wells were purged and sampled following low-flow sampling methodology. An in-line multi-parameter water quality measurement device equipped with a flow-thru cell was used to continuously monitor pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO). Once the parameters stabilized over three consecutive recording intervals (3 to 5 minutes each), the well was sampled. In addition, ferrous iron (Fe^{2+}) was measured at each well using a Hach field kit. Table 4 summarizes the field parameters for the groundwater monitoring wells sampled during this quarterly monitoring event.

2.2 Summary of Analytical Methods

The fourth quarter 2023 samples were submitted to Eurofins in Spokane, Washington, an Ecology-accredited laboratory, for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8260D; TPH-G by Ecology Method NWTPH-Gx; and TPH-D and TPH-O by Ecology Method NWTPH-Dx. Samples were also subcontracted to Eurofins in Tacoma, Washington, an Ecology-accredited laboratory, for analysis of lead (total and dissolved) and manganese (dissolved) by EPA Method 6020B, alkalinity by EPA Method 310.1, and natural attenuation parameters, including nitrate-nitrogen and sulfate, by EPA Method 300.0. Samples from select wells

were analyzed for naphthalenes by EPA Method 8270E SIM at Eurofins in Spokane, Washington. The laboratory reports and chain of custody records for the fourth quarter 2023 sampling event are provided in Appendix B.

2.3 Summary of Data Review

AECOM reviewed the fourth quarter 2023 analytical data set based on the method requirements and associated laboratory quality control criteria. If data qualification was required, qualifiers were assigned based on guidance from EPA's *National Functional Guidelines for Organic Superfund Methods Data Review (November 2020)* and *National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020)*. The data completeness for Eurofins laboratory groups 590-21892-1, 590-21922-1, and 590-21955-1 for this groundwater monitoring event was 100%.

The data review memorandum for this sampling event is provided in Appendix C. Data qualifiers assigned to sample results during the data review are shown in Table 2, Table 3, and Table 4 with the results as well as in Appendix C. The data was considered usable for site evaluation purposes.

2.4 Evaluation of Data from the 2023 Program

This section evaluates the groundwater data collected in April and October 2023. Table 2 summarizes the analytical results for TPH, BTEX, and naphthalene for samples collected during these events. Table 3 summarizes the lead results (total and dissolved) collected in October 2023. Benzene is discussed in Section 2.4.1.1. Ethylbenzene, toluene, and xylenes are not specifically discussed because these compounds have either been infrequently detected or detected at low levels. TPH-G, TPH-D, TPH-O, naphthalene, and lead are discussed in Section 2.4.1.2 through Section 2.4.1.6, respectively. The lower sand unit results are discussed in Section 2.4.2. The MNA parameters (dissolved manganese, nitrate-nitrogen, sulfate, and alkalinity) are summarized in Table 4 and discussed in Section 3.

Isoconcentration maps of the 2023 groundwater monitoring program are presented for benzene (Figures 3 & 4), TPH-G (Figures 5 & 6), and TPH-D (Figures 7 & 8). An arbitrary contour line of 1 milligram per liter (mg/L) is used in the isoconcentration figures for TPH-G and TPH-D since no cleanup level is established for TPH-G and TPH-D. Discussions of plume stability and restoration time frames are included in Section 3.2.

2.4.1 Upper Sand Unit Results

The following sections summarize the analytical results for the upper sand unit wells.

Residual dissolved petroleum contamination is detected in the upper sand unit in two generalized areas (shoreline area and tank farm area) which historically have represented two relatively distinct dissolved phase contaminant plumes at the Site. Wells associated with the shoreline plume include: B-17B and B-30 (up-gradient conditions), G-8, RW-5R, RW-8, and T-3 (in-plume conditions), and T-2, RR-1, and RR-4 (sentinel and surface water compliance wells). Wells associated with the tank farm plume include: B-17B and B-30 (up-gradient conditions), B-25, B-31, B-34, G-18, and HC-111 (in-plume conditions), and FW-3 and FW-4 (sentinel wells). The following summary is organized by these two generalized areas to describe the contaminant conditions in the upper sand unit at the Site. It is worth noting that, for some site constituents, particularly TPH-D, the plume is broad across the site and there is no clear distinction between the two areas. Maximum concentrations are also shown for the period from December 2006 through October 2023.

2.4.1.1 Benzene Results

The results for benzene concentrations during the 2023 groundwater program indicate there were no exceedances of the surface water cleanup level of 0.04 mg/L during this monitoring period.

As shown on Figures 3 and 4, no wells sampled within the shoreline plume were above the surface water or groundwater cleanup levels. Concentrations of benzene in wells RW-5R, G-8, T-3, and RW-8 (associated with the shoreline plume) were as follows for this monitoring period:

Sample Date	RW-5R	G-8	T-3	RW-8
Maximum Result	12/19/06	3/24/10	6/8/10	5/9/07
	0.823	0.054	0.054	0.246
April 2023	0.000093 U	NS	0.000093 U	0.000093 U
October 2023	0.014	0.000093 U	0.000093 U	0.000093 U

Concentrations are provided in mg/L

NS = Not sampled

U = The analyte was not detected above the reported quantitation limits

Benzene concentrations in wells HC-111, B-25, B-31, B-34, and G-18 (associated with the tank farm plume) were as follows for the last year:

Sample Date	HC-111	B-25	B-31	B-34	G-18
Maximum Result	5/10/07	3/24/20	2/6/07	5/11/09	8/1/07
	6.16	45	0.00766	1.4	0.267
April 2023	0.0092	0.036	0.000093 U	0.017	0.00062
October 2023	0.0130 J	0.0044	0.0014	0.022	0.00049

Concentrations are provided in mg/L

J = The numerical value is the approximate concentration of the analyte

U = The analyte was not detected above the reported quantitation limits

Well B-19 is located between wells RW-5R and HC-111 and their associated dissolved phase contaminant plumes and was sampled annually during the 2023 groundwater program. The benzene concentration in well B-19 was 0.0021 in October, below groundwater and surface water cleanup levels.

Well FW-5R, a sentinel well located adjacent to the shoreline inside the terminal, was sampled during both sampling events. Benzene concentrations in well FW-5R ranged from non-detect to 0.00044 mg/L, below groundwater and surface water cleanup levels.

Well E-22, a sentinel well located adjacent to the shoreline south of the terminal, was sampled during both sampling events. Benzene concentrations in well E-22 ranged from non-detect (October) to 0.0014 mg/L (April), below groundwater and surface water cleanup levels.

2.4.1.2 TPH-G Results

The results for the 2023 groundwater program continue to indicate TPH-G is present in the shoreline and tank farm plume areas and near well FW-5R at elevated concentrations relative to TPH-G concentrations in other Site wells, as shown on Figures 5 and 6. The isoconcentration maps demonstrate there are two, relatively distinct, TPH-G dissolved phase plumes that are more broadly dispersed than benzene, in addition to the detections at FW-5R.

TPH-G concentrations in wells RW-5R, G-8, T-3, and RW-8 (associated with the shoreline plume) were as follows for this monitoring period:

Sample Date	RW-5R	G-8	T-3	RW-8
Maximum Result	11/7/07	11/7/07	6/8/10	11/11/09
	23.5	22.7	6.00	3.8
April 2023	0.65	NS	0.100 J	0.031 U
October 2023	7.10	0.15 U	0.15 U	0.15 U

Concentrations are provided in mg/L

U = The analyte was not detected above the reported quantitation limits

J = The numerical value is the approximate concentration of the analyte

NS = Not sampled

TPH-G concentrations in wells HC-111, B-25, B-31, B-34, and G-18 (associated with the tank farm plume) were as follows for this monitoring period:

Sample Date	HC-111	B-25	B-31	B-34	G-18
Maximum Result	5/10/07	11/6/07	12/10/19	5/11/09	6/13/12
	29.1	12.4 J	2.2	6.02	1.6 J
April 2023	1.10	1.8	0.093 J	1.7	0.130 J
October 2023	2.30	3.2	1.30	2.3 J	0.400

Concentrations are provided in mg/L

J = The numerical value is the approximate concentration of the analyte

Well B-19 is located between wells RW-5R and HC-111 and their associated dissolved phase contaminant plumes and was sampled annually during the 2023 groundwater program. The TPH-G concentration in well B-19 was reported at 0.970 mg/L in October 2023.

TPH-G was detected in sentinel wells E-22 and FW-5R in the 2023 groundwater program at concentrations ranging from an estimated 0.038 mg/L (E-22, April 2023) to 0.600 mg/L (FW-5R, April 2023). TPH-G was not detected in sentinel wells FW-3, FW-4, T-2, and FW-14, or any surface water compliance wells (FW-15, RR-1, RR-2, RR-3, RR-4, and RR-5).

2.4.1.3 TPH-D Results

The results for TPH-D during the 2023 groundwater program continue to indicate TPH-D is present in the shoreline and tank farm plume areas and well FW-5R at elevated concentrations relative to other Site wells, as shown on Figures 7 and 8. Historically, the isoconcentration maps have demonstrated two relatively distinct TPH-D dissolved plumes which are more broadly dispersed than benzene.

TPH-D concentrations in wells RW-5R, G-8, T-3, and RW-8 (associated with the shoreline plume) were as follows for this monitoring period:

Sample Date	RW-5R	G-8	T-3	RW-8
Maximum Result	03/24/20	9/14/10	5/9/07	10/5/11
	4.9	560	4.38	43.8
April 2023	0.31	NS	0.19 J	0.45
October 2023	2.4	0.48	0.43	1.1

Concentrations are provided in mg/L

J = The numerical value is the approximate concentration of the analyte

NS = Not sampled

TPH-D concentrations in wells HC-111, B-25, B-31, B-34, and G-18 (associated with the tank farm plume) were as follows for this monitoring period:

Sample Date	HC-111	B-25	B-31	B-34	G-18
Maximum Result	9/16/10	9/15/10	3/29/10	6/18/19	8/12/09
	47	3.5	14	24	11
April 2023	2.2	0.66	0.96	3.7	0.92
October 2023	3.5	0.93	3.8	4.7	1.4

Concentrations are provided in mg/L

NS = Not sampled

Well B-19 is located between wells RW-5R and HC-111 and their associated dissolved phase contaminant plumes and was sampled annually during the 2023 groundwater program. The TPH-D concentration in well B-19 was reported at 0.80 mg/L in April 2023.

TPH-D was detected in all sentinel and surface water compliance wells during one or more of the sampling events during the 2023 groundwater program. However, only sentinel well (FW-5R) had a detection above 1 mg/L. TPH-D was detected in the sentinel wells at concentrations ranging from an estimated 0.15 mg/L (FW-14, October 2023) to 5.7 mg/L (FW-5R, October 2023). TPH-D was detected in the surface water compliance wells at concentrations ranging from an estimated 0.12 mg/L (RR-4, October 2023) to 0.37 mg/L (RR-5, October 2023).

2.4.1.4 TPH-O Results

The results for the 2023 groundwater program indicate that TPH-O is present throughout the site. TPH-O concentrations in wells RW-5R, G-8, T-3, and RW-8 (associated with the shoreline plume) were as follows for this monitoring period:

Sample Date	RW-5R	G-8	T-3	RW-8
Maximum Result	4/2/12	9/14/10	6/8/10	10/5/11
	0.93	19.0	1.6	3.91
April 2023	0.11 U	NS	0.11 U	0.12 U
October 2023	0.13 U	0.24 J	0.32 J	0.42 U

Concentrations are provided in mg/L

J = The numerical value is the approximate concentration of the analyte

NS = Not sampled

U = The analyte was not detected above the reported quantitation limits

TPH-O concentrations in wells HC-111, B-25, B-31, B-34, and G-18 (associated with the tank farm plume) were as follows for this monitoring period:

Sample Date	HC-111	B-25	B-31	B-34	G-18
Maximum Result	4/2/12	12/11/18	9/12/12	9/18/18	9/18/18
	5.8	0.58	3.3	3.6	1.6
April 2023	0.15 J	0.11 U	0.11 U	0.24 J	0.16 J
October 2023	0.40 J	0.12 U	0.79 J	0.37 J	0.43

Concentrations are provided in mg/L

J = The numerical value is the approximate concentration of the analyte

U = The analyte was not detected above the reported quantitation limits

Well B-19, located between wells RW-5R and HC-111 and their associated dissolved phase contaminant plumes, was sampled annually during the 2023 groundwater program. The TPH-O concentration in well B-19 was non-detect in October 2023.

TPH-O was detected in sentinel wells FW-4, FW-5R, and FW-14 and surface water compliance wells FW-15, RR-1, and RR-5 in the October sampling event during the 2023 groundwater program only. TPH-O was detected in the sentinel wells at concentrations ranging from an estimated 0.12 mg/L (FW-14) to an estimated 0.82 mg/L (FW-5R). TPH-O was detected in the surface water compliance wells at concentrations ranging from an estimated 0.15 mg/L (RR-1) to an estimated 0.25 mg/L (RR-5).

2.4.1.5 Naphthalene

Naphthalene is sampled in FW-5R and other wells near FW-5R, including FW-4, FW-14, RR-2, and RR-3. This was initiated during the June 2016 sampling events. Naphthalene was only detected in FW-5R during the 2023 groundwater program and ranged in concentrations from 0.0012 mg/L (April) to 0.0016 mg/L (October).

2.4.1.6 Lead

The results for lead during the 2023 annual sampling event (October 2023) indicate that total lead was not detected at concentrations greater than the groundwater cleanup level of 0.022 mg/L in any wells. Dissolved lead was detected at concentrations greater than the method detection limit in wells B-25 and T-2 (estimated values of 0.00031 mg/L and 0.00027 mg/L, respectively). Lead was not detected above the method detection limits in the remaining wells.

2.4.2 Lower Sand Unit Results

Detected concentrations of dissolved petroleum constituents in the lower sand unit were below the site cleanup standards in all wells.

TPH-G was detected in well DMW-1 at an estimated concentration of 0.420 mg/L (October 2023). TPH-D was detected in all lower sand unit wells (DMW-1 through DMW-3 and FW-13) at concentrations ranging from an estimated 0.13 mg/L (FW-13, April 2023) to 1.6 mg/L (DMW-3, October 2023). TPH-O was detected in DMW-2 and DMW-3 at estimated concentrations of 0.22 mg/L and 0.68 mg/L, respectively (October 2023).

BTEX constituents, total lead and dissolved lead were not detected in any of the lower sand unit wells.

3.0 Monitored Natural Attenuation Evaluation

The following sections discuss and evaluate the natural attenuation data collected through the fourth quarter 2023.

3.1 Natural Attenuation Evaluation Criteria

The Ecology document *Guidance on Remediation of Petroleum-Contaminated Ground Water by Natural Attenuation* (Ecology, 2005) provides a framework for applying and evaluating an MNA program at a site and lists the following five factors that should be considered if natural attenuation is to be a component of a site remedy:

- The groundwater contaminant plume is demonstrated to be stable or shrinking. In this context a “shrinking” plume is synonymous with a configuration where the solute plume margin is receding toward the source area and contaminant concentrations within the solute plume are decreasing over time.
- There is geochemical evidence of biodegradation as a substantial mechanism of contaminant reductions.
- There is a reasonable restoration time frame.
- Natural attenuation will be protective of human health and the environment.
- Source control has been conducted to the maximum extent practicable.

The following sections evaluate each of these criteria.

3.2 Evaluation of MNA

3.2.1 Stable or Shrinking Plume

Plume characteristics can be evaluated based on the specific contaminant conditions at individual wells, in aggregate and in the overall margin or footprint of the plume. In a plume that is otherwise considered to be stable or shrinking, concentrations might fluctuate or even increase at individual wells as contaminant mass redistributes or migrates within the plume; however, the margins of the plume are not expanding significantly in any direction. The plume margins can be approximated based on the isoconcentrations provided in figures over time.

A Mann-Kendall analysis conducted for select wells for the previous 2022 Annual Progress Report and MNA Evaluation indicated that the majority of wells at the Site were decreasing or stable for benzene and TPH-G. There was no apparent seasonality to contaminant concentrations; however, tidal fluctuations and local hydrogeologic characteristics do affect contaminant fate and transport at the Site.

Updated trend analyses for the 2023 groundwater monitoring program were completed for benzene, TPH-G, and TPH-D in all wells in both upper and lower sand units. Trend analyses for ethylbenzene, toluene, xylenes, and TPH-O were not included because of the predominantly or entirely non-detect results for each constituent. The trend analysis was completed using Groundwater Spatio-Temporal Data Analysis Tool version 3.0 (GWSDAT) contaminant analysis program, created by Shell Global Solutions (Shell Global Solutions, 2012). The GWSDAT program generates a statistical trend estimation along with an associated Mann-Kendall probability, or “P” value. The “P” value is inversely proportional to the Mann-Kendall statistical “S” value. The program presents the analytical data in a traditional concentration versus time series and provides a trend estimation line and 95% confidence intervals to the log of historical solute concentration values to allow for trend visualization. The statistical significance of the trend result is assessed by a Mann-Kendall trend analysis test (Mann, 1945). In addition, the GWSDAT program provides an estimated solute concentration half-life.

The Mann-Kendall “P” value indicates the statistical significance of an apparent trend based on whether the value is above or below 0.05. If the “P” value is less than 0.05 ($P < 0.05$), then the estimated trend is deemed statistically significant (i.e., it is statistically different from zero at a 95% level of confidence). A “P” value above 0.05 ($P > 0.05$) indicates that there is no statistically significant trend.

A summary of the results is presented on the following page. Appendix D presents the results of the GWSDAT plot and Mann-Kendall “P” value for all the monitoring wells included in the groundwater monitoring program at

the Site. Trend analysis for data sets with predominantly or entirely non-detect results were identified as non-detect based on professional judgment.

Well ID	2023 Trend Result		
	Benzene	TPH-G	TPH-D
Upper Sand Unit - Up-gradient Conditions			
B-17B	ND	NT	ND
B-30	ND	ND	ND
B-31	NT	NT	NT
E-21	NT	NT	NT
Upper Sand Unit - In-Plume Conditions			
B-19	NT	NT	NT
B-25	SD	NT	NT
B-34	SD	NT	NT
G-8	NT	NT	NT
G-16	NT	ND	NT
G-18	NT	NT	NT
HC-111	SD	NT	NT
RW-2	NT	NT	NT
RW-5R	NT	NT	NT
RW-8	SD	SD	SD
T-3	NT	SD	SD

Well ID	2023 Trend Result		
	Benzene	TPH-G	TPH-D
Upper Sand Unit - Surface Water Compliance			
E-22	NT	NT	NT
FW-3	ND	NT	NT
FW-4	ND	ND	NT
FW-5R	SD	NT	SD
FW-14	ND	ND	NT
FW-15	ND	ND	NT
RR-1	ND	NT	SD
RR-2	ND	NT	NT
RR-3	ND	ND	ND
RR-4	ND	NT	SD
RR-5	ND	NT	SD
T-2	ND	NT	NT
Lower Sand Unit			
DMW-1	ND	ND	NT
DMW-2	SD	NT	NT
DMW-3	ND	NT	NT
DMW-4	ND	NT	NT
FW-13	ND	NT	NT

Legend

SD	Significant decreasing trend
NT	No significant trend
ND	Predominantly non-detect and/or low level

3.2.1.1 Benzene Results

The results of the Mann-Kendall trend analysis for benzene are summarized below.

- Wells B-25, B-34, HC-111, RW-8, FW-5R, and DMW-2 show statistically significant decreasing trends in benzene concentrations.
- No wells show a statistically significant increasing trend in benzene concentrations.
- The following wells show no apparent trend in benzene concentrations: B-31, E-21, B-19, G-8, G-16, G-18, RW-2, RW-5R, T-3, and E-22.
- The remaining wells (B-17B, B-30, FW-3, FW-4, FW-14, FW-15, RR-1 through RR-5, T-2, DMW-1, DMW-3, DMW-4, and FW-13) were determined to be non-detect due to a predominance of non-detect samples.

Isoconcentration contours presented on Figures 3 and 4 and previous annual evaluation reports indicate that the benzene plume has shrunk in the shoreline area. Until this year benzene results have been above the surface water cleanup levels in wells located in the tank farm area.

3.2.1.2 TPH-G Results

The results of the Mann-Kendall trend analysis for TPH-G are summarized below.

- Wells RW-8 and T-3 show statistically significant decreasing trends in TPH-G concentrations.
- No wells show a statistically significant increasing trend in TPH-G concentrations.
- The following wells showed no apparent trend in TPH-G concentrations: B-17B, B-31, E-21, B-19, B-25, B-34, G-8, G-18, HC-111, RW-2, RW-5R, E-22, FW-3, FW-5R, RR-1, RR-2, RR-4, RR-5, T-2, DMW-2, DMW-3, DMW-4, and FW-13.
- The remaining wells (B-30, G-16, FW-4, FW-14, FW-15, RR-3, and DMW-1) were determined to be non-detect due to a predominance of non-detect samples.

Isoconcentration contours presented on Figures 5 and 6 and previous annual evaluation reports indicate that the TPH-G plume margin remains relatively stable, although the concentrations overall have been fluctuating both in the shoreline and tank farm areas.

3.2.1.3 TPH-D Results

The results of the Mann-Kendall trend analysis for TPH-D are summarized below.

- Wells RW-8, T-3, FW-5R, RR-1, RR-4, and RR-5 show statistically significant decreasing trends in TPH-D concentrations.
- No wells show a statistically significant increasing trend in TPH-D concentrations.
- The following wells showed no apparent trend in TPH-D concentrations: B-31, E-21, B-19, B-25, B-34, G-8, G-16, G-18, HC-111, RW-2, RW-5R, E-22, FW-3, FW-4, FW-14, FW-15, RR-2, T-2, DMW-1 through DMW-4, and FW-13.
- The remaining wells (B-17B, B-30, and RR-3) were determined to be non-detect due to a predominance of non-detect samples.

The isoconcentration contours presented on Figures 7 and 8 and previous annual evaluation reports indicate that the TPH-D plume margin remains relatively stable. The concentrations fluctuate overall, particularly in the tank farm area, potentially indicating some migration between wells. However, concentrations have been generally reduced in the shoreline area.

Summary

The results of the trend analyses indicate that most wells at the Site are predominately stable or non-detect and/or low level for benzene, TPH-D, and TPH-G. Concentration trends as inferred from Mann-Kendall results should not be the only means to assess plume stability because the trend analysis of individual wells may bias the interpretation. Assessment of plume stability should also include contaminant contour visualization (i.e., isocontours), long-term data patterns, petroleum degradation and makeup, and other factors that may affect plume characteristics and migration, in addition to trend analysis.

3.2.2 Geochemical Evidence of Biodegradation

Assessment of natural attenuation included sampling and analysis for nitrate-nitrogen, sulfate, dissolved manganese (Mn^{2+}), total alkalinity, and field parameters representative of groundwater including temperature, pH, DO, ORP, and Fe^{2+} . Samples were collected for analysis of nitrate-nitrogen, sulfate, Mn^{2+} , and alkalinity during the August 2022 sampling event to evaluate if natural attenuation processes are active at the Site.

As noted in the Ecology guidance (Ecology, 2005), performance standards for geochemical indicators cannot be applied universally. Ecology suggests several methods to assess geochemical indicators; however, some of these methods are not applicable or feasible given constraints at the Site. Therefore, a qualitative evaluation is used in accordance with the following methods:

- Geochemical indicators are used to qualitatively assess geochemical changes within the groundwater plume over time.
- Geochemical indicators in wells located within and down-gradient of the source are compared to up-gradient or background levels.

Table 4 summarizes the field measured and laboratory MNA results from December 2006 through October 2023. Temperature is not included in Table 4 due to a lack of historic temperature values; however, temperature measurements from the 2023 events are discussed below. Time-series Graphs 1 through 16 illustrate the data from Table 4 for each of the above parameters for select upper sand unit wells. The graphs are organized by well location in relation to the shoreline and tank farm plumes. Wells associated with the shoreline plume include: B-17B and B-30 (up-gradient conditions), G-8, RW-5R, RW-8, and T-3 (in-plume conditions), and T-2, RR-1, and RR-4 (sentinel and surface water compliance wells). Wells associated with the tank farm plume include: B-17B and B-30 (up-gradient conditions), B-25, B-31, B-34, G-18, and HC-111 (in-plume conditions), and FW-3 and FW-4 (sentinel wells).

The geochemical parameters can be divided into two groups: 1) direct measurement of electron acceptors (e.g., DO, ORP, nitrate, and sulfate) and 2) indirect measurement of byproduct(s) of the partially or fully metabolized electron acceptor (e.g., nitrite, Mn^{2+} , and Fe^{2+}). Contaminant degrading microorganisms will utilize the most efficient electron acceptors under the prevailing redox conditions, while creating metabolic by-products. For example, oxygen (as measured by DO and ORP) is consumed in aerobic respiration to create carbon dioxide (CO_2) while the other electron acceptors are consumed in anaerobic respiration: nitrate to create elemental nitrogen, manganese (Mn^{4+}) to create soluble manganese (Mn^{2+}), ferric iron (Fe^{3+}) to create soluble ferrous iron (Fe^{2+}), and sulfate to create sulfide (Newell *et.al.*, 1995). When evaluating these parameters, the occurrence of natural attenuation is indicated by either a relatively reduced level of the electron acceptors or an elevated level of the metabolic by-products in locations within and external to the plume.

Field parameters indicate the general conditions that are suitable for biodegradation. Temperature and pH readings should be within acceptable range for biological activity to occur (temperature of 5 degrees Celsius [$^{\circ}C$] to 25 $^{\circ}C$ and pH of 6 to 8) (Nielsen, 2005). Aerobic biodegradation typically occurs under conditions where DO is greater than 1 mg/L and ORP is greater than -100 millivolts (mV) (i.e., oxidizing conditions). Anaerobic biodegradation typically occurs under conditions where DO is less than 1 mg/L and ORP is less than -100 mV (i.e., reducing conditions).

Temperature

Temperatures measured in Site wells are consistently within the range amenable for biodegradation. During the 2023 events, temperature at each well was within 9.7 °C to 22.1 °C.

pH

Most pH values have been within a range amenable to biodegradation since 2006, when the groundwater sampling and MNA program began (see Graphs 1 and 2). For the 2023 events, pH values were within the range of 6 to 9, with the exception of well T-2 during the April (4.36) and October (5.82) monitoring events. Overall, the range of pH values observed at the Site continues to be conducive to intrinsic biodegradation.

Dissolved Oxygen

The DO concentrations at the Site have historically been higher outside of the dissolved-phase contaminant plume, as would be expected for conditions where ongoing biodegradation consumes the available oxygen. DO concentrations are generally variable, and there is no definitive pattern, other than the wells near the shoreline tend to be higher relative to many of the upland wells which tend to be near or lower than 1 mg/L. Wells located within the dissolved-phase contaminant plume were variable with the majority of wells having lower levels of DO, as shown in Graph 3 and Graph 4.

Oxidation-Reduction Potential

The ORP values are generally consistent with conditions where biodegradation has consumed the available oxygen and sequential electron acceptors, resulting in a lower redox potential in groundwater in the contaminant plume.

The ORP measurements at the Site have generally been higher (greater than -100 mV) outside of the dissolved-phase contaminant plume, particularly in the up-gradient wells, as identified by wells B-17B and B-30. ORP measurements at wells B-31 and E-21 (not included in Graphs 5 and 6), which are up-gradient of the tank farm plume area but also impacted, are also often above -100 mV. Some surface water compliance and sentinel wells, such as T-2, have fluctuated above and below -100 mV in past sampling events.

ORP readings in the wells located within the shoreline plume were generally near or below -100 mV. Wells T-3 and G-8 have consistently shown very low ORP values. ORP readings in the wells located within the tank farm plume fluctuated above and below -100 mV in past sampling events, as shown by the results in B-25 and B-34. The ORP values below -100 mV indicate reducing conditions are more prevalent within the contaminant plume, especially near RW-5R (shoreline plume), and anaerobic biodegradation pathways may be more prevalent.

Nitrate

Nitrate is an electron acceptor under reducing conditions. The denitrification process occurs under anaerobic conditions only, whereby nitrate is the terminal electron acceptor for biodegradation. Nitrate concentrations have generally decreased over time in all wells associated with the shoreline plume and tank farm plumes, but recently have been fluctuating in select wells (see Graphs 7 and 8). This could indicate biodegradation through the denitrification process may be occurring at the Site or denitrification has occurred to such an extent that nitrate is now depleted.

Manganese

Mn⁴⁺ is also an electron acceptor under reducing conditions with the metabolic by-product, water-soluble Mn²⁺, increasing as a result of biodegradation. The manganese reduction process occurs under anaerobic conditions only. To sample for soluble manganese, or Mn²⁺, the groundwater sample is submitted to the lab, where the sample is filtered to remove any insoluble manganese, such as manganese dioxide, and then analyzed for total manganese (Colorado Department of Labor and Employment, 2002). The manganese reported by the laboratory is not isotope specific. However soluble Mn²⁺ is the predominant manganese isotope found in most water pH and ORP conditions (Hem, 1963).

The manganese concentrations are elevated in the interior of the Site and specifically within the wells in the dissolved phase contaminant plumes, such as RW-2 (not included in Graphs 9 and 10), RW-5R, RW-8, and G-8 in the RW-5R plume and B-31, B-34, HC-111. Well T-3 has consistently showed low ORP and manganese results; therefore, it is probable that these reduced conditions limit the manganese reduction process and manganese solubility (Ecology, 2005). Upgradient wells B-17B and B-30 typically show low-level detections for all sampling events. An increase, or elevated levels, of soluble manganese in wells located within the dissolved phase contaminant plumes, particularly where ORP readings are favorable, indicates that biodegradation through the manganese reduction process may be occurring at the Site.

Iron

Fe^{3+} , which is a less preferred electron acceptor to nitrate and manganese, is converted to Fe^{2+} under reducing conditions. As a by-product of the metabolized iron, Fe^{2+} is a proportional indicator of biodegradation and the presence of this parameter indicates biodegradation by this biochemical pathway may be occurring. Higher values have been historically observed within the contaminant plume, as evidenced by RW-5R in the shoreline plume as well as B-25, B-31, B-34, and HC-111 in the tank farm plume (see Graphs 11 and 12). Wells G-8 and T-3 have consistently shown low or non-detect values; however, these results may be impacted by the reducing conditions in these wells. In addition, up-gradient well B-17B has consistently shown non-detect and/or low-level detections. Overall, these results indicate biodegradation, utilizing Fe^{3+} as the electron acceptor, may be occurring within the plume areas.

Sulfate

Of the parameters collected at the Site, sulfate is the least preferred electron acceptor under reducing conditions. Sulfate reduction occurs under anaerobic conditions only, whereby sulfate is depleted as a result of biodegradation. Sulfate reduction occurs optimally under conditions when sulfate-reducing bacteria are not competing with the stronger nitrate, manganese, and ferric iron reduction pathways (Westinghouse Savannah River Company, 2001). In general, sulfate concentrations tend to be higher outside of the dissolved-phase contaminant plume, except for T-3 (see Graphs 13 and 14). However, this is most evident in the down-gradient locations adjacent to the Thea Foss Waterway, as shown by FW-3, FW-4, T-2, RR-1, and RR-4, which may be influenced by tidal surface water infiltration. The up-gradient wells B-17B and B-30 are slightly elevated compared to the wells located inside the contaminant plume (most in-plume wells are non-detect) but are substantially lower than those along the waterway. The presence of sulfate concentrations lower than the background in areas with dissolved contamination provides evidence for anaerobic bioremediation; however, it is unclear whether the distribution and reduced concentrations of sulfate are from biodegradation or from other factors.

Alkalinity

Elevated alkalinity in Site groundwater may be indicative of ongoing biodegradation through either the aerobic or anaerobic pathways. Alkalinity is a measure of the ability of groundwater to buffer changes in pH caused by the addition of biologically generated acids through the biodegradation process and is typically a measure of dissolved carbonate and bicarbonate. As such, alkalinity in groundwater can increase in response to biodegradation either producing organic acids, which lower the pH and solubilize carbonate from the soil, or producing CO_2 (Ecology, 2005). Therefore, alkalinity, like Fe^{2+} , is a proportional indicator of biodegradation.

The alkalinity values are consistently higher in wells within the RW-5R and HC-111 dissolved phase contaminant plumes compared to wells outside (see Graphs 15 and 16). The combination of elevated alkalinity within the dissolved phase contaminant plumes and reduced concentrations along the waterway and up-gradient corroborate other results indicating biodegradation is occurring at the Site.

Redox Potential (E_H)

In addition to the ORP discussion above, the ORP readings from the October 2023 sampling event were converted to redox potential (E_H) to better understand subsurface conditions at the Site where specific microbial breakdown processes may be optimized or constrained. This requires the raw ORP readings in mV be converted to E_H by adding a voltage offset correction factor and adjusting for temperature (ORP Electrodes, n.d.). During the October 2023 sampling event, AECOM used only one kind of meter, as described below:

- Horiba U-52 (rented from Field Environmental Instruments): Ag/AgCl 3.3M KCl reference electrode, with voltage offset of + 206 mV.

The following table is extracted from the *Guidance on Remediation of Petroleum-Contaminated Ground Water by Natural Attenuation*, Table 3.3 (Ecology, 2005). The E_H values are based on pH of 7 and temperature of 25 °C. The values in Graph 17 are corrected for temperature and pH values measured in the field.

Table 3.3. Evaluation of Geochemical Indicators and Microbial Reactions

Type of Microbial Respiration	Electron Acceptor	Metabolic By-Product	Geochemical Indicators Response		Redox Potential E_H° mV @ pH 7, 25°C	
Aerobic (Oxidation)	Oxygen	CO ₂	O ₂ ↓	CO ₂ ↑	+ 820	Most Preferred
Anaerobic (Reduction)	Nitrate (NO ₃ ⁻)	N ₂	NO ₃ ⁻ ↓	CO ₂ ↑	+ 740	↓ Least Preferred
	Manganese (Mn ⁺⁴)	Mn ⁺²	Mn ⁺² ↑	CO ₂ ↑	+ 520	
	Ferric Iron (Fe ⁺³)	Ferrous Iron (Fe ⁺²)	Fe ⁺² ↑	CO ₂ ↑	- 50	
	Sulfate (SO ₄ ⁻²)	H ₂ S	SO ₄ ⁻² ↓	CO ₂ ↑	- 220	
	Carbon Dioxide (CO ₂)	Methane (CH ₄)	CH ₄ ↑	CO ₂ ↑	- 240	

Adapted from ASTM (1998) and Weidimeier (1999)

The results presented in Graph 17 along with the above table indicate microbial reduction pathways requiring higher redox potential (e.g., oxygen/aerobic and nitrate) may not have suitable conditions for these processes to occur, at least as indicated by redox potential in certain parts of the Site (Ecology, 2005). Based on the overall values for redox potential found at the Site, the manganese pathway would seem to have the most favorable conditions. However, the manganese pathway may be constrained in certain areas of the Site to the extent manganese solubility is influenced by redox potential.

Lower Sand Unit

The results of the field and natural attenuation parameters from lower sand unit wells (DMW-1 through DMW-3 and FW-13) indicate temperature and pH values were within the ranges amenable to biodegradation during the October 2023 sampling event. The DO concentrations were generally low (below 2 mg/L) or non-detect, except for well DMW-2 (8.15 mg/L in October 2023). The ORP values were all below -100 mV indicating anaerobic conditions are largely present. Nitrate was not detected at DMW-3, and had estimated detections at wells DMW-1, DMW-2, and FW-13 (0.87 J, 0.57 J, and 0.078 J mg/L respectively in October 2023). The Fe²⁺ concentrations were detected at DMW-1 (0.24 mg/L) and DMW-2 (0.05 mg/L), and were overrange at DMW-3 and FW-13. Sulfate was not detected in FW-13 but was detected in the remaining lower sand unit wells ranging from 7.0 mg/L in DMW-3 to 710 mg/L in DMW-1. Alkalinity results ranged from 240 mg/L (FW-13) to 450 mg/L at DMW-1.

Summary

The geochemical data continues to provide evidence biodegradation is occurring at the Site. Considering the geochemical indicators, redox conditions, and the various factors discussed above, it appears anaerobic biodegradation is ongoing and is likely contributing to the continued attenuation of the petroleum hydrocarbons in groundwater. While the non-detect and low nitrate values could indicate biodegradation through the denitrification process is occurring, the lack of nitrate in almost all wells at the Site could equally indicate denitrification is not occurring since there is no nitrate to feed the microbial reactions. The variable DO concentrations and the low redox potential in the plume suggest aerobic biodegradation may not be a significant pathway. However, to the extent DO is still present or is replenished to groundwater within the dissolved contaminant plumes, aerobic biodegradation may still occur.

3.2.3 Reasonable Restoration Time Frame

The restoration time frame is a prediction of the time it will take for the Site to reach regulatory cleanup levels. The restoration time frame depends on the initial contaminant mass, dissolution rates of the contaminants (most contaminants are attenuated by processes acting on chemicals in solution), bulk attenuation rates for the contaminants, the site-specific groundwater cleanup levels, and the point of compliance. The time to achieve restoration can be predicted by modeling the degradation process itself or by analyzing data trends and estimating the time to achieve the cleanup level. This report uses the second approach by a method proposed by Ecology as well as calculations from statistically derived half-life concentrations from the Mann Kendall trend analysis using GWSDAT (version 2.11).

AECOM performed restoration time frame analysis using Package A, specifically Module 2, from Ecology's *User's Manual: Natural Attenuation Analysis Tool Package for Petroleum-Contaminated Ground Water* (Ecology, 2005). Module 2 uses a regression analysis at each well to estimate the plume stability and restoration time frame. It does this by plotting the contaminant concentrations over time for multiple wells along the plume centerline distance in each area (i.e., the RW-5R and HC-111 dissolved contaminant plumes). It also calculates the best-fit line and a confidence level on the slope. This module is relatively simple and uses available data. However, the plume dynamics at the Site are complex due to tidal influence and local hydrology; as such, the wells and data do not fit neatly into a typical plume orientation (i.e., there is no clear plume centerline). Appendix E includes details of the analysis.

As with the previous (2022) annual report, the restoration time frame analysis for the 2023 reporting period does not include well RW-5R and associated wells B-19, G-8, RW-2, RW-8, RR-1, and T-3 since the concentrations in all seven wells have been below the cleanup level criterion (meaning the restoration time frame has already been met). Unless there are observed concentration increases or changes in the RW-5R plume monitoring wells in the future, the restoration time frame analysis will continue to focus on the HC-111 plume.

The restoration time frame analysis of the plume associated with HC-111 (i.e., Tank 1 area) included data from wells HC-111, B-25, B-34, G-18, RR-2, and RR-3. The data set used for the analysis included analytical data ranging from the second quarter 2018 through fourth quarter 2023 for the temporal analysis. The 85-percent confidence level was used as the default value for the statistical analysis.

The restoration time frame analysis yields well-specific results (i.e., plume status and restoration time at individual well) and when the individual wells are taken together, gives an indication of the condition of the dissolved phase contaminant plume (i.e., overall plume mass, stability and area). As such, in situations where there is a mix of increasing and decreasing concentrations in wells, as in the HC-111 plume, the restoration time only reflects time to reach regulatory cleanup levels in the well and vicinity. The analysis was conducted based on benzene concentrations in groundwater and the site-specific cleanup standard for groundwater and surface water of 0.16 mg/L and 0.04 mg/L, respectively.

Results of the restoration time frame evaluation are as follows:

- The associated plume stability and temporal analysis is noted as shrinking or stable for all wells through the fourth quarter 2023 allowing for an actual restoration time to be generated using the Ecology Tool Package Module 2. The predicted restoration time for HC-111 based on evaluation in July 2020 to reach the site-specific groundwater cleanup level of 0.16 mg/L for benzene was August 2015. Additionally, benzene concentrations in HC-111 have not exceeded the groundwater cleanup level since September 2018.
- Restoration time frame could not be calculated at well G-18 because there was not sufficient evidence to support a significant linear correlation between the sampling time and the log of benzene concentration in these wells. Based on the data set used, the plume stability is noted as stable.
- Wells RR-2 and RR-3 are consistently below the cleanup levels.
- In order to have an additional restorative time frame for benzene for tracking purposes, data from the analysis using GWSDAT (Appendix D) as well concentration data was used to calculate an estimate. The results for HC-111 indicate a shrinking, or decreasing, trend near the 85% confidence interval using the Mann-Kendall non-parametric statistical analysis. The Mann-Kendall analysis derived an estimated half-life of 653 days and a P-value less than 0.01 (statistically significant); however, benzene concentrations in well

HC-111 were below the site-specific groundwater cleanup level of 0.16 mg/L during all events of the 2023 monitoring program. Therefore, the restoration timeframe is complete, assuming no additional mass is released and there is no rebound or steady increase in benzene concentrations which would directly affect the restoration estimate.

Summary

The results of the restoration time frame evaluation indicate a restoration time frame cannot be applied for benzene and the dissolved phase contaminant plume across the Site. However, a restoration time frame was calculated for well HC-111 at the 85% confidence level and generated a result indicating achievement of the cleanup level in August 2015. An additional restoration time was calculated, for HC-111, based on the GWSDAT Mann-Kendall derived half-life and P-value and resulted in a restoration time frame of 653 days (October 2023).

However, benzene concentrations in HC-111 have not exceeded the site-specific groundwater cleanup level since September 2018. The temporal analysis for the HC-111 benzene plume indicates stable or shrinking results. These results corroborate the trend results and isoconcentration visualizations discussed in Section 3.2.1.1. The results and model output of the restoration time frame analysis are provided in Appendix E.

3.2.4 Protective of Human Health and Environment

As discussed in Section 1.3, the cleanup standards stipulated in the Consent Decree are based on the protection of surface water. The nearest surface water is the Thea Foss Waterway bordering the Site to the west. There are currently seven surface water compliance wells (RR-1 through RR-6 and FW-15) and six sentinel wells (E-22, FW-3, FW-4, FW-5R, FW-14, and T-2). As noted in Section 2.1, surface water compliance well RR-5 is not located in the rip-rap and due to the distance from the waterway is more representative of a sentinel well location. Except for RR-6, which is not sampled, the surface water compliance wells are either sampled semi-annually or annually.

The contingency plan establishes a groundwater action level for the sentinel wells. The trigger action level, or condition, is a benzene concentration of 0.08 mg/L in the sentinel wells. Exceedance of the action level triggers contingent actions to protect the Thea Foss Waterway (URS, 2011b). The surface water compliance and sentinel wells are sampled, and the data evaluated on a quarterly basis for trends and trigger action levels. The contingency plan is based on a trigger action level for benzene only.

Table 2 summarizes the analytical results for the 2023 groundwater program and includes the benzene trigger concentration of 0.08 mg/L. There were no exceedances of the trigger level in surface water compliance wells or sentinel wells.

In summary, the trigger concentration has not been exceeded in surface water or sentinel wells since 1994 (Appendix A). As discussed in Section 1.2, well DMW-2 located in the lower sand unit, had detections of benzene just above the trigger concentration and surface water cleanup level during several sampling events in 2012. However, following a vacuum extraction event in October 2012, the results have been below the surface water cleanup level for each sampling event. As discussed in Section 1.4, DMW-2 and FW-5R were included in quarterly vacuum extraction events to remove contaminated groundwater due to the proximity of these wells to the Thea Foss Waterway; however, on February 12, 2020, Ecology emailed approval of the cessation of vacuum extraction events at DMW-2. Therefore, vacuum extraction has been conducted on only FW-5R since 2020. In addition, analysis of hydraulic gradients, tidal influences, and potential contaminant transport (URS, 2012) indicates a low probability of significant contaminant transport to the Thea Foss Waterway.

3.2.5 Source Control

The Site remedy identified in the Consent Decree involved active remediation through free product recovery, air sparging, and soil vapor extraction. As discussed in Section 1.4, the remedial system was effective in removing free product and dissolved-phase petroleum hydrocarbons and only low residual concentrations of dissolved

hydrocarbons remain in groundwater beneath the Site. The remedial system reached a threshold of effectiveness in 2002.

No free product has been detected at the Site since December 2005, except for trace amounts observed in wells B-31 (less than 0.01 feet in September 2010), FW-5R (0.03 feet in September 2011 and 0.01 feet in September 2012), and a small amount of potential free product (ranging from 0.01 to 0.05 foot) observed in well MW-2 during two of the four events in the 2014/2015 program and one of the events in the 2015/2016 program. The potential free product observed in well MW-2 was sampled and analyzed for BTEX, TPH-G, TPH-D, and TPH-O during one of the 2014 events. The results of the analysis found the sample did not contain BTEX or elevated levels of TPH-G or TPH-D and, therefore, did not identify the material as product related to the petroleum plume at the Site. It should be noted well FW-5R was added into the program in September 2011. It replaced well FW-5 which had not been sampled in many years, but where free product was observed in the area historically (Hart Crowser, 1990).

With Ecology approval, the remedial system was shut down in October 2006 to monitor and evaluate natural attenuation at the Site (Ecology, 2006). Based on the field observations and groundwater data collected to date, the remedial system appears to have effectively addressed the bulk of free product issues at the Site and source control has been conducted to the maximum extent practicable.

4.0 Proposed Site Activities

The following sections describe future planned activities at the Site. Separate documents describe the sampling and analysis procedures (URS, 2011b).

4.1 Performance Monitoring Program Optimization

As presented in the Final MNA Evaluation Report and Performance Monitoring Plan and Sampling and Analysis Plan for Groundwater Performance Monitoring Program, the groundwater program may be revised or optimized to ensure effective and efficient tracking of the dissolved phase contaminant plumes at the Site (URS, 2011a and URS, 2011b, respectively). The optimization rules are provided in Section 3.8 of the Sampling and Analysis Plan. Upon Ecology approval, those modifications would be implemented at the next possible sampling event. In these documents, the types of allowable changes to the groundwater monitoring program include:

- Increasing or decreasing the number of wells in the well network;
- Increasing or decreasing sampling frequency;
- Adding or removing analytes; and
- Elimination of wells (i.e., abandonment) at the Site.

A reduction in sampling frequency from quarterly to semi-annually was proposed for the Performance Monitoring Program in *Memorandum: Request for Concurrence – Reduction in Monitoring Program* dated September 16, 2022 (AECOM 2022). Ecology approved the monitoring reduction to start after third quarter 2022 (Smith September 16, 2022). Table 5 presents the well network and sampling program. Table 6 lists all wells and available construction details. Well elevations are updated to the NAVD 88 benchmark, based on surveys conducted in 2011 and 2013.

4.2 Contingency Plan

A Contingency Plan was established to address Ecology's concerns for an early warning system and to establish trigger concentrations at select wells (Ecology, 2008). Details of the Contingency Plan are provided in the Sampling and Analysis Plan for Groundwater Monitoring Program (URS, 2011b). The trigger concentration of 0.08 mg/L for benzene was not detected in any of the sentinel wells or surface water compliance wells. No contingency conditions were triggered in 2023.

As a proactive measure, vacuum extraction events will continue for sentinel well FW-5R. This is driven by elevated concentrations of TPH-G and TPH-D relative to other wells along the waterway and no exceedances of any trigger action level. The scope for the activities in 2024 is included below:

- Complete vacuum extraction event one month to two weeks prior to the following semi-annual sampling events: April 2024 and October 2024.
- Remove groundwater from well FW-5R for approximately 1.5 hours or maximum volume is reached with vacuum-extraction truck.

5.0 Conclusions

The following sections provide conclusions, program requests, and statement of limitations based on the 2023 Annual Progress Report.

5.1 Conclusions

The following summary and conclusions are based on the results and evaluation of the 2023 groundwater program:

- No measurable free product was detected during any of the sampling events.
- No TPH criteria are discussed in this report. Based on discussions with Ecology, no site-specific TPH cleanup levels will be developed and TPH will continue to be managed with ongoing monitoring and analysis and completion of vacuum extraction events, as warranted.
- There were no exceedances of Site cleanup levels during the 2023 sampling events. All benzene detections were at concentrations below the surface water cleanup level.
- Ethylbenzene, toluene, and xylenes results are not included in the report for technical and trend evaluation since these compounds have been either infrequently detected or detected at low levels at wells across the Site.
- The dissolved phase plumes of TPH-G and TPH-D are more broadly dispersed across the Site than benzene. Elevated concentrations are found in the wells associated with the RW-5R and HC-111 plume areas. TPH-G and TPH-D concentrations are relatively low or non-detect in the sentinel and surface water compliance wells.
- TPH-O is not consistently detected across the Site. When TPH-O is detected in a well, TPH-D is also detected and usually at relatively higher concentrations. It is possible the TPH-O results are just the lower end hydrocarbons from the TPH-D range eluting, or showing up, in the heavy oil-range analysis.
- Naphthalene was detected in FW-5R during the 2023 groundwater program at relatively low concentration levels.
- Lead was also analyzed during the 2023 groundwater program. Total lead was not detected at concentrations greater than the groundwater cleanup level of 0.022 mg/L in any wells. Dissolved lead was detected above the method detection limit in wells B-31 and FW-15.
- Detected concentrations of dissolved phase contaminants remain below Site cleanup levels in all wells in the lower sand unit.
- The results of the trend analysis for benzene indicate wells are decreasing, stable, or non-detect/low level. The benzene plume margin has receded in the area of RW-5R and remains relatively stable in the area of HC-111.
- The results of the trend analysis for TPH-G indicate most wells at the Site are decreasing, stable, or non-detect/low level. The TPH-G plume margin remains relatively stable at the Site although the concentrations overall have been reduced both in the area of RW-5R and HC-111.
- The results of the trend analysis for TPH-D indicate most wells are decreasing or stable. The concentrations fluctuate overall, particularly in the area of HC-111.
- Analysis of natural attenuation parameters provides evidence that biodegradation is occurring and suggests anaerobic breakdown pathways continue to be dominant at the Site. The combination of elevated alkalinity results within the dissolved phase contaminant plumes and reduced concentrations along the waterway or up-gradient provide additional support that biodegradation is occurring at the Site.
- The results of the restoration analysis indicate a restoration time frame cannot be applied for benzene and the dissolved phase contaminant plume across the Site. However, a restoration time frame was able to be calculated for well HC-111 at the 85% confidence interval and indicated achievement of the cleanup level in August 2015 (evaluation July 2020). Benzene concentrations in HC-111 have not exceeded the groundwater cleanup level since September 2018. The benzene plume continues to attenuate and indicates additional wells may also show a decreasing trend or shrinking plume.

- The trigger concentration of 0.08 mg/L for benzene was not detected in any of the sentinel wells or surface water compliance wells. No contingency conditions were triggered in 2023.
- Vacuum extraction events have been conducted quarterly since September 2015 as a proactive measure to remove contaminated groundwater from DMW-2 and FW-5R due to the proximity of these wells to the Thea Foss Waterway. On February 12, 2020, Ecology emailed approval of the cessation of vacuum extraction events at DMW-2. Therefore, vacuum extraction was conducted on only FW-5R in 2023. Vacuum extraction events for FW-5R will continue during the 2024 sampling year.

5.2 Statement of Limitations

AECOM has prepared this report for use by the D Street Potentially Liable Parties (PLP) Group, ExxonMobil Refining and Supply/Environmental Services (ExxonMobil, formerly Mobil), Shell Oil Company (Shell), and Phillips 66 Company (Phillips 66, formerly ConocoPhillips). Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions expressed or implied should be understood

6.0 References

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Tables

Table 1
Summary of Groundwater Elevations and Product Thickness
Second Quarter 2022 through Fourth Quarter 2023
D Street Petroleum Site

Well ID and TOC Elevation (ft amsl)	Date Measured	Depth to Water (ft btoc)	Depth to Free Product (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation (ft amsl)
B-1A 14.15	5/3/2022	Well destroyed			
	8/1/2022	Well destroyed			
	4/11/2023	Well destroyed			
	10/3/2023	Well destroyed			
B-2 13.78	5/3/2022	NR	NR	NR	NR
	8/1/2022	Well damaged			
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
B-6 14.25	5/3/2022	NR	NR	NR	NR
	8/1/2022	7.81	--	0.00	6.44
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
B-16 14.40	5/3/2022	NR	NR	NR	NR
	8/1/2022	7.80	--	0.00	6.60
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
B-17B 14.16	5/3/2022	6.75	--	0.00	7.41
	8/1/2022	7.22	--	0.00	6.94
	4/11/2023	6.51	--	0.00	7.65
	10/4/2023	7.12	--	0.00	7.04
B-19 13.31	5/3/2022	6.76	--	0.00	6.55
	8/1/2022	6.90	--	0.00	6.41
	4/11/2023	6.61	--	0.00	6.70
	10/4/2023	7.09	--	0.00	6.22
B-20 13.48	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
B-25 13.96	5/3/2022	7.20	--	0.00	6.76
	8/1/2022	7.53	--	0.00	6.43
	4/12/2023	6.96	--	0.00	7.00
	10/5/2023	7.86	--	0.00	6.10
B-30 14.46	5/3/2022	7.63	--	0.00	6.83
	8/1/2022	7.96	--	0.00	6.50
	4/11/2023	NR	NR	NR	NR
	10/3/2023	8.43	--	0.00	6.03
B-31 14.46	5/3/2022	7.51	--	0.00	6.95
	8/1/2022	7.85	--	0.00	6.61
	4/12/2023	7.45	--	0.00	7.01
	10/4/2023	8.31	--	0.00	6.15
B-34 14.36	5/3/2022	7.64	--	0.00	6.72
	8/1/2022	7.91	--	0.00	6.45
	4/11/2023	7.46	--	0.00	6.90
	10/3/2023	NR	NR	NR	NR

Table 1
Summary of Groundwater Elevations and Product Thickness
Second Quarter 2022 through Fourth Quarter 2023
D Street Petroleum Site

Well ID and TOC Elevation (ft amsl)	Date Measured	Depth to Water (ft btoc)	Depth to Free Product (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation (ft amsl)
E-4 12.09	5/3/2022	5.80	--	0.00	6.29
	8/1/2022	5.83	--	0.00	6.26
	4/11/2023	5.54	--	0.00	6.55
	10/3/2023	6.34	--	0.00	5.75
E-6 12.14	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
E-20 24.56*	5/3/2022	6.41	--	0.00	18.15
	8/1/2022	6.95	--	0.00	17.61
	4/11/2023	6.32	--	0.00	18.24
	10/3/2023	7.37	--	0.00	17.19
E-21 14.13	5/3/2022	6.92	--	0.00	7.21
	8/1/2022	7.43	--	0.00	6.70
	4/11/2023	6.93	--	0.00	7.20
	10/3/2023	7.84	--	0.00	6.29
E-22 16.74	5/3/2022	11.90	--	0.00	4.84
	8/1/2022	12.30	--	0.00	4.44
	4/11/2023	10.27	--	0.00	6.47
	10/4/2023	9.98	--	0.00	6.76
FW-3 14.11	5/3/2022	7.63	--	0.00	6.48
	8/1/2022	7.50	--	0.00	6.61
	4/11/2023	7.21	--	0.00	6.90
	10/4/2023	7.55	--	0.00	6.56
FW-4 14.21	5/3/2022	7.60	--	0.00	6.61
	8/1/2022	7.81	--	0.00	6.40
	4/11/2023	7.28	--	0.00	6.93
	10/4/2023	7.78	--	0.00	6.43
FW-5R 12.78	5/3/2022	6.24	--	0.00	6.54
	8/1/2022	6.43	--	0.00	6.35
	4/11/2023	5.94	--	0.00	6.84
	10/4/2023	6.61	--	0.00	6.17
FW-14 13.17	5/3/2022	6.56	--	0.00	6.61
	8/1/2022	7.21	--	0.00	5.96
	4/11/2023	5.94	--	0.00	7.23
	10/3/2023	6.48	--	0.00	6.69
FW-16 12.35	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
G-1 13.43	5/3/2022	7.24	--	0.00	6.19
	8/1/2022	7.36	--	0.00	6.07
	4/11/2023	7.08	--	0.00	6.35
	10/3/2023	7.51	--	0.00	5.92

Table 1
Summary of Groundwater Elevations and Product Thickness
Second Quarter 2022 through Fourth Quarter 2023
D Street Petroleum Site

Well ID and TOC Elevation (ft amsl)	Date Measured	Depth to Water (ft btoc)	Depth to Free Product (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation (ft amsl)
G-8 13.25	5/3/2022	NR	NR	NR	NR
	8/1/2022	6.94	--	0.00	6.31
	4/11/2023	6.74	--	0.00	6.51
	10/3/2023	6.97	--	0.00	6.28
G-16 13.23	5/3/2022	6.72	--	0.00	6.51
	8/1/2022	6.92	--	0.00	6.31
	4/11/2023	6.68	--	0.00	6.55
	10/3/2023	7.28	--	0.00	5.95
G-18 13.54	5/3/2022	6.85	--	0.00	6.69
	8/1/2022	7.18	--	0.00	6.36
	4/11/2023	6.80	--	0.00	6.74
	10/3/2023	6.22	--	0.00	7.32
G-20 13.11	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
HC-108 15.30	5/3/2022	8.35	--	0.00	6.95
	8/1/2022	8.72	--	0.00	6.58
	4/11/2023	8.38	--	0.00	6.92
	10/3/2023	9.20	--	0.00	6.10
HC-111 14.62	5/3/2022	7.80	--	0.00	6.82
	8/1/2022	8.08	--	0.00	6.54
	4/11/2023	7.79	--	0.00	6.83
	10/5/2023	8.50	--	0.00	6.12
RW-5R 13.76	5/3/2022	7.54	--	0.00	6.22
	8/1/2022	7.65	--	0.00	6.11
	4/11/2023	7.33	--	0.00	6.43
	10/4/2023	7.69	--	0.00	6.07
T-2 11.62	5/3/2022	5.84	--	0.00	5.78
	8/1/2022	5.51	--	0.00	6.11
	4/11/2023	4.88	--	0.00	6.74
	10/5/2023	5.33	--	0.00	6.29
T-3 13.03	5/3/2022	6.74	--	0.00	6.29
	8/1/2022	6.74	--	0.00	6.29
	4/11/2023	6.48	--	0.00	6.55
	10/3/2023	6.79	--	0.00	6.24
RW-26 11.93	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
RW-28 14.62	5/3/2022	8.01	--	0.00	6.61
	8/1/2022	7.68	--	0.00	6.94
	4/11/2023	8.55	--	0.00	6.07
	10/3/2023	7.73	--	0.00	6.89

Table 1
Summary of Groundwater Elevations and Product Thickness
Second Quarter 2022 through Fourth Quarter 2023
D Street Petroleum Site

Well ID and TOC Elevation (ft amsl)	Date Measured	Depth to Water (ft btoc)	Depth to Free Product (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation (ft amsl)
RW-29 13.83	5/3/2022	7.33	--	0.00	6.50
	8/1/2022	7.06	7.06	0.00	6.77
	4/11/2023	7.68	--	0.00	6.15
	10/3/2023	7.16	--	0.00	6.67
MW-2 13.83*	5/3/2022	8.18	--	0.00	5.65
	8/1/2022	8.43	--	0.00	5.40
	4/11/2023	8.21	--	0.00	5.62
	10/3/2023	9.40	--	0.00	4.43
R-5 11.69	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
RW-1 12.94	5/3/2022	7.2	--	0.00	5.74
	8/1/2022	6.72	--	0.00	6.22
	4/11/2023	6.43	--	0.00	6.51
	10/3/2023	6.85	--	0.00	6.09
RW-2 12.76	5/3/2022	6.97	--	0.00	5.79
	8/1/2022	6.63	--	0.00	6.13
	4/11/2023	6.50	--	0.00	6.26
	10/4/2023	6.48	--	0.00	6.28
RW-7 12.46	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
RW-8 12.71	5/3/2022	6.38	--	0.00	6.33
	8/1/2022	6.42	--	0.00	6.29
	4/11/2023	6.24	--	0.00	6.47
	10/4/2023	6.59	--	0.00	6.12
RW-9 12.59	5/3/2022	7.40	--	0.00	5.19
	8/1/2022	6.43	--	0.00	6.16
	4/11/2023	6.98	--	0.00	5.61
	10/3/2023	6.23	--	0.00	6.36
RW-12 13.21	5/3/2022	6.74	--	0.00	6.47
	8/1/2022	6.72	--	0.00	6.49
	4/11/2023	6.41	--	0.00	6.80
	10/3/2023	6.80	--	0.00	6.41
RW-13 13.94	5/3/2022	7.45	--	0.00	6.49
	8/1/2022	7.53	--	0.00	6.41
	4/11/2023	7.18	--	0.00	6.76
	10/3/2023	7.66	--	0.00	6.28
RW-14 13.52	5/3/2022	7.19	--	0.00	6.33
	8/1/2022	7.04	--	0.00	6.48
	4/11/2023	6.94	--	0.00	6.58
	10/3/2023	7.13	--	0.00	6.39

Table 1
Summary of Groundwater Elevations and Product Thickness
Second Quarter 2022 through Fourth Quarter 2023
D Street Petroleum Site

Well ID and TOC Elevation (ft amsl)	Date Measured	Depth to Water (ft btoc)	Depth to Free Product (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation (ft amsl)
RW-15 13.15	5/3/2022	6.80	--	0.00	6.35
	8/1/2022	6.71	--	0.00	6.44
	4/11/2023	6.44	--	0.00	6.71
	10/3/2023	6.88	--	0.00	6.27
RW-17 12.29	5/3/2022	5.94	--	0.00	6.35
	8/1/2022	5.91	--	0.00	6.38
	4/11/2023	5.69	--	0.00	6.60
	10/3/2023	6.05	--	0.00	6.24
RW-19 12.97	5/3/2022	6.44	--	0.00	6.53
	8/1/2022	7.67	--	0.00	5.30
	4/11/2023	6.26	--	0.00	6.71
	10/3/2023	6.97	--	0.00	6.00
RW-20 12.80	5/3/2022	6.28	--	0.00	6.52
	8/1/2022	6.55	--	0.00	6.25
	4/11/2023	6.07	--	0.00	6.73
	10/3/2023	6.78	--	0.00	6.02
RW-22 12.72	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
RW-24 13.63	5/3/2022	7.20	--	0.00	6.43
	8/1/2022	7.37	--	0.00	6.26
	4/11/2023	6.93	--	0.00	6.70
	10/3/2023	7.50	--	0.00	6.13
FW-15 NS*	5/3/2022	6.90	--	0.00	NS
	8/1/2022	7.25	--	0.00	NS
	4/11/2023	6.57	--	0.00	NS
	10/3/2023	6.86	--	0.00	NS
RR-1 14.79	5/3/2022	9.10	--	0.00	5.69
	8/1/2022	8.81	--	0.00	5.98
	4/11/2023	8.87	--	0.00	5.92
	10/3/2023	8.50	--	0.00	6.29
RR-2 15.71	5/3/2022	10.18	--	0.00	5.53
	8/1/2022	9.48	--	0.00	6.23
	4/11/2023	9.92	--	0.00	5.79
	10/4/2023	9.31	--	0.00	6.40
RR-3 15.78	5/3/2022	10.30	--	0.00	5.48
	8/1/2022	9.58	--	0.00	6.20
	4/12/2023	10.07	--	0.00	5.71
	10/4/2023	9.34	--	0.00	6.44
RR-4 13.19	5/3/2022	7.57	--	0.00	5.62
	8/1/2022	7.11	--	0.00	6.08
	4/11/2023	7.17	--	0.00	6.02
	10/3/2023	6.77	--	0.00	6.42

Table 1
Summary of Groundwater Elevations and Product Thickness
Second Quarter 2022 through Fourth Quarter 2023
D Street Petroleum Site

Well ID and TOC Elevation (ft amsl)	Date Measured	Depth to Water (ft btoc)	Depth to Free Product (ft btoc)	Free Product Thickness (ft)	Groundwater Elevation (ft amsl)
RR-5 16.53	5/3/2022	10.69	--	0.00	5.84
	8/1/2022	10.92	--	0.00	5.61
	4/12/2023	9.87	--	0.00	6.66
	10/3/2023	10.02	--	0.00	6.51
RR-6 11.31	5/3/2022	8.00	--	0.00	3.31
	8/1/2022	6.51	--	0.00	4.80
	4/11/2023	6.85	--	0.00	4.46
	10/3/2023	4.40	--	0.00	6.91
DMW-1 13.72	5/3/2022	11.78	--	0.00	1.94
	8/1/2022	8.32	--	0.00	5.40
	4/11/2023	12.87	--	0.00	0.85
	10/4/2023	7.04	--	0.00	6.68
DMW-2 12.97	5/3/2022	6.20	--	0.00	6.77
	8/1/2022	7.37	--	0.00	5.60
	4/11/2023	5.03	--	0.00	7.94
	10/3/2023	5.66	--	0.00	7.31
DMW-3 12.83	5/3/2022	6.85	--	0.00	5.98
	8/1/2022	7.43	--	0.00	5.40
	4/11/2023	6.64	--	0.00	6.19
	10/3/2023	7.38	--	0.00	5.45
DMW-4 11.72	5/3/2022	Well destroyed			
	8/1/2022	Well destroyed			
	4/11/2023	Well destroyed			
	10/3/2023	Well destroyed			
FW-1 13.63	5/3/2022	8.25	--	0.00	5.38
	8/1/2022	8.13	--	0.00	5.50
	4/11/2023	7.24	--	0.00	6.39
	10/3/2023	6.93	--	0.00	6.70
FW-2 14.32	5/3/2022	NR	NR	NR	NR
	8/1/2022	NR	NR	NR	NR
	4/11/2023	NR	NR	NR	NR
	10/3/2023	NR	NR	NR	NR
FW-13 13.13	5/3/2022	7.96	--	0.00	5.17
	8/1/2022	7.65	--	0.00	5.48
	4/11/2023	6.13	--	0.00	7.00
	10/3/2023	6.07	--	0.00	7.06

Notes:

* = not surveyed under (NAVD) 88

ID = identification

TOC = top of casing elevation (feet above mean sea level) surveyed by WH Pacific in October 2013

ft = feet

amsl = above mean sea level

NR = not recorded

NS = no survey data provided or available

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
Upper Sand Unit											
B-1A	12/19/2006		NS		NS	NS	NS	NS	NS	NS	NS
B-1A	2/6/2007	0.05 U	4.72 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	--
B-1A	5/7/2007		NS		NS	NS	NS	NS	NS	NS	--
B-1A	7/31/2007	0.05 U	4.72 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	--
B-1A	11/5/2007		NS		NS	NS	NS	NS	NS	NS	NS
B-1A	2/12/2008	0.05 U	0.47 U	0.236	0.472 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	--
B-1A	5/5/2008		NS		NS	NS	NS	NS	NS	NS	NS
B-1A	8/12/2008	0.05 U	5.21 U	0.24 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	--
B-1A	11/11/2008		NS		NS	NS	NS	NS	NS	NS	NS
B-1A	2/24/2009	0.05 U	NS	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-1A	8/10/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-1A	3/30/2010	0.05 U	5.00 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-1A	6/7/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-1A	9/13/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-1A	12/15/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-2	12/18/2006	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	2/5/2007	0.05 U	NA	0.243 U	0.485 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	5/7/2007	0.05 U	NA	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	7/31/2007	0.05 U	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	11/5/2007	0.05 U	NA	0.236 U	0.658 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	2/13/2008	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	5/8/2008	0.05 U	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	8/12/2008	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	11/11/2008	0.05 U	NA	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	2/24/2009	0.05 U	NA	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	5/11/2009	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-2	8/10/2009	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-2	11/10/2009	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--	--
B-2	3/29/2010	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-2	6/11/2010	0.05 U	NA	0.12 U	0.39	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-2	9/13/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-2	12/15/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-6	12/20/2006	0.546	4.76 U	7.63	0.476 U	0.00155	0.0005 U	0.00287	0.00495	--	--
B-6	2/6/2007	1.5	5.28	1.02	0.476 U	0.000711	0.00108	0.0273	0.00835	--	--
B-6	5/8/2007	0.251	4.81 U	2.11	0.522	0.00118	0.0005 U	0.0081	0.00138	--	--
B-6	7/31/2007	0.0662	5.32 U	1.8	0.81	0.00111	0.0005 U	0.000537	0.001 U	--	--
B-6	11/5/2007		NS		NS	NS	NS	NS	NS	NS	NS
B-6	2/13/2008	0.0756	4.72 U	0.236 U	0.472 U	0.00161	0.0005 U	0.0005 U	0.001 U	--	--
B-6	5/5/2008	0.0766	4.72 U	0.236 U	0.472 U	0.00144	0.0005 U	0.0005 U	0.001 U	--	--
B-6	8/12/2008	0.05	5.21 U	1.97	1.02	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-6	11/11/2008	0.845	4.9 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
B-6	2/24/2009	0.134	4.72 U	0.236 U	0.472 U	0.00281	0.0005 U	0.0005 U	0.001 U	--	--
B-6	5/12/2009	0.0699	4.81 U	0.248 U	0.495 U	0.00103	0.0005 U	0.0005 U	0.001 U	--	--
B-6	8/11/2009	0.080	5.0 U	0.12 U	0.36	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-6	11/10/2009	0.140	5.0 U	0.61	0.24 U	0.002	0.001 U	0.001 U	0.001 U	--	--
B-6	3/29/2010	0.050 U	5.0 U	2.9	1.2	0.001 U	0.001 U	0.001 U	0.002 U	--	--
B-6	6/11/2010	0.200	NA	11	1.5	0.001 U	0.001 U	0.0011	0.002 U	--	--
B-6	9/13/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-6	12/15/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-12	11/6/2007	1.770 J	NA	0.319	0.510 U	0.00159 J	0.0005 U	0.0231 J	0.001 U	--	--
B-12	2/13/2008	0.989 J	NA	0.236 U	0.472 U	0.00121	0.0005 U	0.0119	0.001 U	--	--
B-12	5/7/2008	0.950 J	NA	0.378	0.472 U	0.00109 J	0.0005 U	0.00922 J	0.001 U	--	--
B-12	8/13/2008	1.700 J	NA	0.306	0.472 U	0.00193	0.0005 U	0.0033 J	0.001 U	--	--
B-12	11/11/2008	1.720 J	NA	0.236 U	0.472 U	0.00159 J	0.0005 U	0.0051 J	0.001 U	--	--
B-12	2/25/2009	4.370 J	NA	0.391	0.472 U	0.00207 J	0.000559 J	0.0407 J	0.00806 J	--	--
B-12	5/14/2009	3.540 J	NA	0.618	0.485 U	0.00178 J	0.00192 J	0.0385 J	0.00577 J	--	--
B-12	8/12/2009	4.7 J	NA	1.5	0.24 U	0.001 U	0.001 U	0.012	0.0036	--	--
B-12	11/10/2009	3.7	NA	1.1	0.25 U	0.0011 U	0.001 U	0.0084	0.0028	--	--
B-12	3/25/2010	0.9	NA	0.44	0.25 U	0.001 U	0.001 U	0.0041	0.002 U	--	--
B-12	6/15/2010	1.9	NA	0.58	0.34	0.001 U	0.001 U	0.002	0.002 U	--	--
B-12	12/15/2010		NS		NS	NS	NS	NS	NS	NS	NS
B-16	12/20/2006	1.08	5.00 U	0.253 U	0.505 U	0.259 J	0.00156	0.00118	0.00573	--	--
B-16	2/6/2007	0.323	4.72 U	0.236 U	0.472 U	0.0422	0.0005 U	0.0005 U	0.00103	--	--
B-16	5/9/2007	0.205	4.85 U	0.236 U	0.472 U	0.0147	0.0005 U	0.0005 U	0.001 U	--	--
B-16	7/31/2007	0.171	4.95 U	0.250 U	0.500 U	0.00935	0.0005 U	0.0005 U	0.001 U	--	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								Naphthalene
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ⁿ	
Site-Specific Groundwater Cleanup Level:		15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:		--				0.08	--	--	--	--
B-16	11/6/2007	0.129	5.00 U	0.250 U	0.500 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-16	2/13/2008	0.05 U	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-16	5/5/2008	0.465	4.76 U	0.238 U	0.476 U	0.0337	0.0005 U	0.00104 U	0.00186	--
B-16	8/11/2008	0.05 U	5.21 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-16	11/11/2008	0.05 U	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-16	2/24/2009	0.05 U	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-16	5/12/2009	0.05 U	4.81 U	0.24 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-16	8/10/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-16	11/10/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--
B-16	3/30/2010	0.05 U	5.00 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-16	6/15/2010	0.05 U	5.40 U	0.12 UJ	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-16	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
B-16	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
B-17B	12/18/2006	0.05 U	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	2/5/2007	0.252	4.72 U	0.236 U	0.472 U	0.0560	0.00198	0.00961	0.00973	--
B-17B	5/7/2007	0.05 U	4.72 U	0.236 U	0.472 U	0.00262	0.0005 U	0.0005 U	0.001 U	--
B-17B	7/31/2007	0.05 U	4.85 U	0.238 U	0.476 U	0.00050 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	11/5/2007	0.05 U	4.72 U	0.236 U	0.472 U	0.00050 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	2/12/2008	0.05 U	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	5/5/2008	0.05 U	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	8/12/2008	0.05 U	5.21 U	0.238 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	11/11/2008	0.05 U	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	2/24/2009	0.05 U	4.72 U	0.236 U	0.472 U	0.00986	0.0005 U	0.0005 U	0.001 U	--
B-17B	5/11/2009	0.05 U	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	8/10/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-17B	11/10/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--
B-17B	3/29/2010	0.05 U	6.90	0.12 U	1.5	0.001 U	0.001 U	0.001 U	0.002 U	--
B-17B	6/11/2010	0.063	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-17B	9/15/2010	0.05 U	5.00 U	0.12 U	0.3	0.001 U	0.001 U	0.001 U	0.002 U	--
B-17B	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
B-17B	9/30/2011	0.08 U	5.4 U	0.101 U	0.505 U	0.00209	0.0005 U	0.0005 U	0.001 U	--
B-17B	9/13/2012	0.05 U	NA	0.089 J	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-17B	9/27/2013	0.05 U	NA	0.12 U	0.24 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--
B-17B	9/26/2014	0.050 U	NA	0.13 U	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
B-17B	9/24/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
B-17B	9/21/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 UJ	0.0010 UJ	0.0010 UJ	0.0030 UJ	--
B-17B	9/20/2017	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
B-17B	9/20/2018	0.150 U	NA	0.23 U	0.38 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
B-17B	9/12/2019	0.054 J	NA	0.27 U	0.13 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--
B-17B	9/22/2020	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
B-17B	9/14/2021	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
B-17B	8/3/2022	0.032 J	NA	0.11 U	0.12 U	0.000093 UJ	0.00031 UJ	0.00020 UJ	0.00044 UJ	--
B-17B	10/4/2023	0.15 U	NA	0.11 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
B-19	12/21/2006	2.59	4.76 U	0.240 U	0.481 U	0.00404	0.00332	0.215	0.0431	--
B-19	2/7/2007	8.67 J	4.81 U	0.240 U	0.481 U	0.00516	0.00260	0.164	0.0211	--
B-19	5/9/2007	3.83 J	4.81 U	0.424	0.472 U	0.01870	0.00750	0.14	0.0252	--
B-19	8/2/2007	3.6	4.95 U	0.530	0.481 U	0.00765	0.00315	0.247	0.0131	--
B-19	11/7/2007	2.67	4.95 U	0.600	0.505 U	0.02070	0.00682	0.0422	0.0139	--
B-19	2/14/2008	2.96	0.47 U	0.282	0.472 U	0.00634	0.00199	0.197	0.0211	--
B-19	5/5/2008	3.26	4.76 U	1.41	0.481 U	0.0106	0.0033	0.109	0.137	--
B-19	8/14/2008	2.35	5.21 U	1.01	0.495 U	0.0129	0.00365	0.0723	0.0095	--
B-19	11/12/2008	2.79	4.81 U	0.62	0.481 U	0.00516	0.0025 U	0.189	0.00781	--
B-19	2/27/2009	1.80	4.81 U	0.364	0.481 U	0.00581	0.00115	0.192	0.00278	--
B-19	5/13/2009	3.02	4.72 U	0.603	0.476 U	0.0128	0.0025 U	0.32	0.00122	--
B-19	8/12/2009	3.000	5.00 U	0.98	0.24 U	0.0061	0.0017	0.12	0.0112	--
B-19	11/10/2009	2.700	5.00 U	1.2	0.24 U	0.0027	0.001 U	0.12	0.0059	--
B-19	3/29/2010	1.500 J	5.00 U	0.61	0.25	0.0017	0.001 U	0.088	0.002 U	--
B-19	6/9/2010	2.300	4.90 U	1.7	0.27	0.0018	0.0015	0.098	0.0027	--
B-19	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
B-19	6/15/2011	1.3	4.8 U	0.87	0.24 U	0.001 U	0.001 U	0.0067	0.002 U	--
B-19	10/4/2011	1.75	5.00 U	1.2	0.25 U	0.0013	0.001 U	0.0109	0.00338	--
B-19	12/5/2011	1.6	4.90 U	0.86	0.24 U	0.001 U	0.001 U	0.023	0.0042	--
B-19	4/4/2012	1.3	5.10 U	1.3	0.6	0.001 U	0.001 U	0.013	0.0028	--
B-19	6/13/2012	0.15 J	NA	0.8 J	0.24 UJ	0.014 J	0.001 UJ	0.001 UJ	0.002 UJ	--
B-19	9/12/2012	2.3	NA	1.3	0.24 U	0.0024	0.001	0.0087	0.00402	--
B-19	12/11/2012	1.4	NA	1.1	0.25 U	0.0013	0.001 U	0.013	0.002 U	--
B-19	3/13/2013	0.96	NA	0.96	0.31	0.001 U	0.001 U	0.0073	0.002 U	--
B-19	6/11/2013	1.1	NA	0.75	0.14	0.001 U	0.001 U	0.0074	0.002 U	--
B-19	9/24/2013	1.8	NA	1.2	0.24 U	0.0015	0.001	0.0087	0.002 U	--

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WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH		B	T	E	
Site-Specific Groundwater Cleanup Level:			15			0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15			0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08		--	--	--	--
B-19	12/3/2013	1.1	NA	0.59	0.24 U	0.0014	0.001 U	0.0088	0.002 U	--	
B-19	3/5/2014	1.8	NA	0.82	0.24 U	0.0015	0.0010 U	0.0084	0.0020 U	--	
B-19	6/9/2014	1.5	NA	0.85	0.25 U	0.0010 U	0.0010 U	0.0028	0.0020 U	--	
B-19	9/25/2014	1.4 J	NA	1.1	0.59	0.0010 U	0.0010 U	0.0040	0.0020 U	--	
B-19	12/15/2014	1.7 J	NA	1.3	0.43	0.0010 U	0.0010 U	0.0077	0.0020 U	--	
B-19	3/26/2015	1.5	NA	0.69	0.24 U	0.0020 U	0.0020 U	0.0036	0.0030 U	--	
B-19	6/16/2015	1.3 J	NA	0.84	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
B-19	9/24/2015	2.2 J	NA	1.8	0.26 U	0.0022	0.0020 U	0.0037	0.0030 U	--	
B-19	12/21/2015	1.9	NA	1.5	0.61	0.0011 J	0.0010 U	0.0035	0.0030 U	--	
B-19	3/23/2016	0.830	NA	0.665	0.38 U	0.00040 J	0.00052 J	0.0026	0.00079 J	--	
B-19	6/22/2016	0.958 J	NA	1.59	1.01	0.00040 J	0.00048 J	0.0019	0.00081 J	--	
B-19	9/22/2016	1.79	NA	1.01 J	0.154	0.0013	0.0012	0.0035	0.0015 J	--	
B-19	12/7/2016	1.500	NA	1.10	0.13 J	0.00035	0.00040 J	0.0020	0.00091 J	--	
B-19	3/20/2017	1.200	NA	0.89	0.15 J	0.00021 J	0.00037 J	0.0014	0.00062 J	--	
B-19	6/20/2017	0.910	NA	0.79 J	0.16 J	0.00025 J	0.00052 J	0.0014	0.0013 J	--	
B-19	9/21/2017	1.4	NA	1.3	0.18 J	0.00094	0.0011	0.0017	0.0023 J	--	
B-19	3/20/2018	1.1	NA	1.0	0.19 J	0.00012 J	0.0010 U	0.00044 J	0.0030 U	--	
B-19	9/20/2018	1.3	NA	1.4	0.67	0.0019	0.0011	0.0020	0.0021 J	--	
B-19	3/12/2019	0.630	NA	0.85	0.35 J	0.00042	0.00058 J	0.00036 J	0.00064 J	--	
B-19	9/11/2019	0.680 J	NA	0.89	0.13 U	0.0033	0.0019	0.00094 J	0.00125 J	--	
B-19	9/22/2020	1.20	NA	0.93	0.18 J	0.0015	0.0013	0.020	0.00360	--	
B-19	3/30/2021	0.33	NA	0.46	0.15 J	0.000093 U	0.00031 U	0.00094 J	0.00044 U	--	
B-19	9/14/2021	1.3	NA	0.96	0.12 U	0.0033	0.0015	0.036	0.0038	--	
B-19	8/2/2022	0.560	NA	0.60	0.14 J	0.000093 U	0.00035 J	0.0042	0.00074 J	--	
B-19	10/4/2023	0.970	NA	0.80	0.41 U	0.0021	0.00082 J	0.0054	0.00044 U	--	
B-20	12/19/2006	2.99 J	4.81 U	0.683	0.481 U	0.0823 J	0.00813 J	0.049 J	0.00599 J	--	
B-20	2/8/2007	3.30 J	4.72	0.729	0.472 U	0.0995	0.00992	0.0374	0.0122	--	
B-20	5/10/2007	2.54	4.76 U	0.730	0.472 U	0.196	0.00566	0.014	0.0078	--	
B-20	8/2/2007	2.65	4.72 U	1.57	0.52 U	0.159	0.00508	0.0212	0.00748	--	
B-20	11/7/2007	2.10	5.68 U	0.89	1.04	0.0751	0.00326	0.0087	0.0053	--	
B-20	2/14/2008	2.28	4.72 U	0.349	0.481 U	0.0674	0.00538	0.015	0.00597	--	
B-20	5/5/2008	1.88	4.76 U	1.41	0.472 U	0.036	0.00285	0.00806	0.00806	--	
B-20	8/14/2008	0.95	5.21 U	29.6	2.45 U	0.0407	0.00312	0.00561	0.00554	--	
B-20	11/12/2008	3.35	4.81 U	2.95	0.613	0.0689	0.00614	0.0143	0.01230	--	
B-20	2/25/2009	2.73 J	5.05	1.84	0.472 U	0.0205 J	0.00141 J	0.0254 J	0.0166 J	--	
B-20	5/13/2009	2.83 J	4.81 U	4.3	0.915	0.017 J	0.00158 J	0.164 J	0.0597 J	--	
B-20	8/13/2009	3.7	5.00 U	1.4	0.25 U	0.0094	0.00260	0.0088	0.0162	--	
B-20	11/10/2009	3.5	5.00 U	2.2	0.24 U	0.018	0.00290	0.0059	0.0111	--	
B-20	3/29/2010	0.33	63	2	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
B-20	6/9/2010	1.5	5.10	2.2	0.58	0.001 U	0.001 U	0.001 U	0.002 U	--	
B-20	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
B-20	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
B-25	12/19/2006	6.54	4.72 U	0.346	0.481 U	0.101 J	0.00313	0.0039	0.00706	--	
B-25	2/7/2007	2.23 J	4.72 U	0.379	0.472 U	0.066 J	0.00302	0.00538 J	0.0102 J	--	
B-25	5/9/2007	7.16 J	4.72 U	0.687	0.472 U	0.146 J	0.0059	0.0169 J	0.0195	--	
B-25	8/1/2007	3.86 J	5.00 U	0.836	0.485 U	0.0156 J	0.002 J	0.000777 J	0.00204 J	--	
B-25	11/6/2007	12.4 J	4.81 U	0.856	0.481 U	0.09 J	0.0311 J	0.013900 J	0.0458 J	--	
B-25	2/14/2008	7.23	4.72 U	0.349	0.472 U	0.0451	0.00265	0.0025 U	0.0074	--	
B-25	5/5/2008	5.66	4.72 U	0.784	0.472 U	0.0758	0.0042	0.0025 U	0.00986	--	
B-25	8/13/2008	7.62	5.21 U	0.621	0.476 U	0.038	0.0025 U	0.00333	0.00894	--	
B-25	11/11/2008	7.31	4.90 U	0.687	0.481 U	0.0719	0.00316	0.00425	0.0082	--	
B-25	2/24/2009	6.84	4.72 U	0.496	0.472 U	0.0384 J	0.0025 U	0.0025 U	0.00574	--	
B-25	5/13/2009	6.14	4.72 U	0.563	0.481 U	0.0406	0.0025 U	0.00273	0.00552	--	
B-25	8/11/2009	8.2	5.00 U	2.4	0.25 U	0.11	0.0019	0.0031	0.00460	--	
B-25	11/11/2009	6.1	5.00 U	1.8	0.24 U	0.072 J	0.0022	0.0019	0.00450	--	
B-25	3/23/2010	8.8	5.00 U	3.2	0.25 U	0.0062	0.0010 U	0.001 U	0.00240	--	
B-25	6/9/2010	8.2	5.00 U	2.9	0.24 U	0.024	0.0010 U	0.0011	0.00220	--	
B-25	9/15/2010	6.4	4.80 U	3.5	0.31	0.08	0.0020	0.0042	0.00320	--	
B-25	12/20/2010	3	4.8 U	1.2	0.32	0.44	0.0053	0.0029	0.012	--	
B-25	3/11/2011	3.3	5.1 U	0.5	0.25 U	0.11	0.004	0.0023	0.0094	--	
B-25	6/16/2011	4.2	5.1 U	1.2	0.25 U	0.13	0.005	0.0027	0.011	--	
B-25	9/30/2011	2.68	5.3 U	1.02	0.5 U	0.331	0.00825	0.0025 U	0.0163	--	
B-25	12/6/2011	2.8	5.2 U	1	0.25 U	0.081	0.0067	0.0038	0.012	--	
B-25	4/3/2012	2.3	5.3 U	1.5	0.24 U	0.5	0.0035	0.0029	0.0058	--	
B-25	6/12/2012	2.9	NA	1	0.24 U	0.21	0.005	0.003	0.011	--	
B-25	9/13/2012	4	NA	1.1	0.24 U	0.2	0.0052	0.0023	0.011	--	
B-25	12/11/2012	2.1	NA	0.91	0.24 U	1.5	0.011	0.0076	0.015	--	
B-25	3/14/2013	1.6	NA	0.76	0.26 U	0.54	0.007	0.0025	0.017	--	
B-25	6/10/2013	2	NA	0.61	0.05 U	0.41	0.006	0.0017	0.01	--	

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:		15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:		--				0.08	--	--	--	--
B-25	9/26/2013	3.5	NA	0.42	0.24 U	0.4	0.0066	0.005 U	0.011	--
B-25	12/5/2013	2.1	NA	0.46	0.24 U	0.42	0.0091	0.0033	0.0203	--
B-25	3/6/2014	2.6	NA	0.57	0.24 U	0.80	0.0064	0.0059	0.012	--
B-25	6/11/2014	2.5 J	NA	0.96 J	0.24 U	-- R	-- R	-- R	--	--
B-25	9/24/2014	2 J	NA	1.4	0.24 U	0.45	0.0074	0.0019	0.018	--
B-25	12/15/2014	1.9 J	NA	0.74	0.24 U	0.33	0.010 U	0.010 U	0.020 U	--
B-25	3/25/2015	2.2	NA	0.75	0.24 U	0.090	0.0054	0.0030 U	0.014	--
B-25	6/15/2015	2.8 J	NA	0.69	0.25 U	0.15	0.0080 U	0.012 U	0.012 U	--
B-25	9/24/2015	2.1 J	NA	0.87	0.26 U	0.16 J	0.0040	0.0030 U	0.0074	--
B-25	12/21/2015	2.6	NA	0.97	0.39 U	0.530 J	0.0055	0.0032	0.0092	--
B-25	3/23/2016	1.05	NA	0.283	0.19 U	0.0711 J	0.0016 J	0.00084 J	0.0020 J	--
B-25	6/22/2016	2.68 J	NA	0.336 J	0.250 J	0.175 J	0.0036	0.0035	0.0075	--
B-25	9/22/2016	2.70	NA	0.478	0.0713 J	0.150 J	0.0027	0.00074 J	0.0033	--
B-25	12/8/2016	1.700	NA	0.59 J	0.12 U	0.130	0.0031 J	0.010 U	0.0055 J	--
B-25	3/21/2017	2.300	NA	0.94	0.40 U	0.310	0.0010 U	0.0010 U	0.0030 U	--
B-25	6/20/2017	2.20	NA	0.81	0.42 U	0.092	0.0029	0.0010	0.0089	--
B-25	9/19/2017	1.80	NA	0.69	0.44 U	0.067	0.00220	0.00072 J	0.0042	--
B-25	12/12/2017	2.5	NA	0.95	0.40 U	0.460	0.0035	0.0022	0.00676	--
B-25	3/21/2018	3.1	NA	1.2	0.14 J	0.45	0.0025	0.0031	0.0051	--
B-25	6/19/2018	2.0	NA	0.86	0.41 U	0.089	0.0020	0.00079 J	0.0044	--
B-25	9/17/2018	2.0	NA	1.1	0.24 J	0.22	0.0014	0.00079 J	0.0022 J	--
B-25	12/11/2018	4.0	NA	2.5	0.58	0.97	0.0053	0.0031	0.0071	--
B-25	3/14/2019	2.30	NA	0.72	0.11 J	0.12	0.0034 J	0.00200 U	0.0059 J	--
B-25	6/18/2019	1.40	NA	0.88	0.11 U	0.036	0.0014	0.00050 J	0.0023 J	--
B-25	9/12/2019	1.40	NA	0.78	0.12 U	0.092	0.0013	0.00048 J	0.00182 J	--
B-25	12/11/2019	2.10	NA	0.95	0.13 J	0.340	0.0027	0.00120	0.00410	--
B-25	3/24/2020	1.60	NA	0.92	0.17 J	45	0.0013	0.00055 J	0.00270 J	--
B-25	6/24/2020	1.30 J	NA	0.53	0.13 U	0.086	0.0013	0.00044 J	0.0025 J	--
B-25	9/23/2020	1.80	NA	0.53	0.13 U	0.14	0.0012	0.00038 J	0.00140 J	--
B-25	12/14/2020	2.3	NA	0.93	0.12 J	0.360	0.0028	0.0019	0.0043	--
B-25	3/31/2021	1.3	NA	0.60	0.11 U	0.033	0.00031 U	0.00020 U	0.0014 J	--
B-25	6/23/2021	1.8	NA	0.61	0.12 U	0.097	0.00084 J	0.00030 J	0.0011 J	--
B-25	9/13/2021	2.3	NA	0.78	0.13 U	0.230	0.0016	0.00081 J	0.0022 J	--
B-25	12/6/2021	1.8	NA	0.84	0.29 J	0.110	0.0014	0.00069 J	0.0020 J	--
B-25	2/9/2022	1.3	NA	0.47	0.12 U	0.020	0.00050 J	0.00020 U	0.00052 J	--
B-25	5/4/2022	1.8	NA	0.57	0.17 J	0.079	0.0010	0.00032 J	0.0017 J	--
B-25	8/2/2022	1.6	NA	0.51	0.12 J	0.042	0.00056 J	0.00020 U	0.00059 J	--
B-25	4/12/2023	1.8	NA	0.66	0.11 U	0.036	0.00091 J	0.00036 J	0.00120 J	--
B-25	10/5/2023	3.2	NA	0.93	0.12 U	0.0044	0.00085 J	0.00033 J	0.00099 J	--
B-30	12/20/2006	0.05 U	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	2/6/2007	0.05 U	4.81 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	5/8/2007	0.05 U	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	7/31/2007	0.05 U	4.95 U	0.255 U	0.51 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	11/6/2007	0.05 U	5.00 U	0.253 U	0.505 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	2/12/2008	0.05 U	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	5/5/2008	0.05 U	4.72 U	0.243 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	8/12/2008	0.05 U	5.21 U	0.248 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	11/10/2008	0.05 U	4.85 U	0.24 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	2/24/2009	0.05 U	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	5/12/2009	0.05 U	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-30	8/11/2009	0.05 U	5.00 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-30	11/10/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--
B-30	3/29/2010	0.05 U	5.00 U	0.12 U	0.25	0.001 U	0.001 U	0.001 U	0.002 U	--
B-30	6/15/2010	0.05 U	5.10 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-30	9/15/2010	0.05 U	5.00 U	0.13 U	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-30	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
B-30	9/29/2011	0.08 UJ	5.30 UJ	0.12 UJ	0.24 UJ	0.0002 UJ	0.0005 UJ	0.0005 UJ	0.001 UJ	--
B-30	9/13/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-30	9/26/2013	0.05 U	NA	0.12 U	0.24 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--
B-30	9/25/2014	0.050 U	NA	0.12 U	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
B-30	9/23/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
B-30	9/20/2016	0.10 U	NA	0.094 U	0.094 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--
B-30	9/20/2017	0.150 U	NA	0.26 U	0.44 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
B-30	9/20/2018	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
B-30	9/9/2019	0.048 U	NA	0.26 U	0.13 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--
B-30	9/23/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
B-31	12/20/2006	0.9	4.76 U	0.316	0.476 U	0.00735	0.00626	0.0325	0.0198	--
B-31	2/6/2007	1.97	4.76 U	0.240 U	0.481 U	0.00766	0.00704	0.0827	0.0129	--
B-31	5/8/2007	1.89 J	4.90 U	0.238 U	0.476 U	0.00665	0.00504	0.0302	0.00652	--
B-31	7/31/2007	0.54	5.21 U	0.266 U	0.532 U	0.00379	0.00144	0.00338	0.00239	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								Naphthalene
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:		15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:		--				0.08	--	--	--	--
B-31	11/8/2007	0.55	5.49 U	0.287 U	0.575 U	0.00175	0.00065	0.0005 U	0.0022	--
B-31	2/13/2008	0.302	4.76 U	0.238 U	0.476 U	0.00326	0.00164	0.00428	0.00254	--
B-31	5/5/2008	0.05 U	4.72 U	0.236 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
B-31	8/12/2008	0.286	5.21 U	0.236 U	0.536	0.00077	0.0005 U	0.0005 U	0.00178	--
B-31	11/11/2008	0.331	4.95 U	0.240 U	0.481 U	0.0014	0.0005 U	0.00057	0.00263	--
B-31	2/24/2009	0.346	4.72 U	0.24 U	0.47 U	0.00209	0.000803	0.00258	0.00516	--
B-31	5/12/2009	0.337	4.72 U	0.359	0.472 U	0.00116	0.0005 U	0.00398	0.00314	--
B-31	8/11/2009	0.41	5.00 U	0.250	0.250 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-31	11/10/2009	0.55	5.00 U	0.310	0.240 U	0.001 U	0.001 U	0.001 U	0.001 U	--
B-31	3/29/2010	0.74	11.00	14	0.250 U	0.00200	0.0011	0.026	0.0015	--
B-31	6/14/2010	1.8	5.20 U	10	0.750	0.00240	0.0011	0.044	0.004	--
B-31	9/16/2010	0.91	5.20 U	NA	NA	0.00130	0.0012	0.0014	0.0011	--
B-31	12/16/2010	0.88	4.9 U	2.1	0.24	0.0017	0.001 U	0.0072	0.0065	--
B-31	3/10/2011	1.3	4.8 U	3.7	0.25 U	0.0013	0.001 U	0.019	0.0049	--
B-31	6/15/2011	0.62	5 U	1.2	0.28	0.001 U	0.001 U	0.025	0.002 U	--
B-31	9/29/2011	0.328 J	5.4 UJ	0.45 J	0.25 UJ	0.0002 UJ	0.0005 UJ	0.0005 UJ	0.00129 J	--
B-31	12/8/2011	0.22	4.8 U	0.13 U	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-31	4/4/2012	0.5	5.2 U	5.9	0.98	0.001 U	0.0012	0.016	0.002 U	--
B-31	6/12/2012	1.2	NA	0.57	0.24 U	0.001 U	0.001 U	0.0028	0.0011	--
B-31	9/12/2012	0.67	NA	0.84	3.3	0.00082 J	0.00088 J	0.00036 J	0.0027	--
B-31	12/10/2012	0.05 UJ	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
B-31	3/13/2013	0.4	NA	4	0.62	0.001 U	0.001 U	0.001 U	0.002 U	--
B-31	6/10/2013	1.1	NA	8.3	1.7	0.002	0.0033	0.013	0.0115	--
B-31	9/26/2013	1.3	NA	0.48	0.24 U	0.0023	0.0049	0.0025 U	0.016	--
B-31	12/5/2013	1.1	NA	0.31	0.24 U	0.0019	0.0041	0.0054	0.0133	--
B-31	3/5/2014	0.41	NA	0.84	0.24 U	0.0010 U	0.0010 U	0.0026	0.0099	--
B-31	6/11/2014	0.90	NA	1.9	0.31	0.0010 U	0.0010 U	0.0013	0.0020 U	--
B-31	9/26/2014	1.5	NA	3.5	0.51	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
B-31	12/16/2014	0.39	NA	2.1	0.36	0.0010 U	0.0010 U	0.0024	0.0020 U	--
B-31	3/25/2015	0.81	NA	2.8	0.58	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
B-31	6/17/2015	0.58 J	NA	2.9	0.35	0.0020 U	0.0020 U	0.0031	0.0059	--
B-31	9/23/2015	1.5	NA	2.4	0.25 U	0.0020	0.0034	0.0043	0.0121	--
B-31	12/22/2015	0.43	NA	3.5	0.39 U	0.00065	0.0010 U	0.0073	0.0040 U	--
B-31	3/23/2016	0.694	NA	6.98	0.0019 U	0.00047 J	0.00035 J	0.0048	0.0020	--
B-31	6/22/2016	0.792 J	NA	1.20 J	0.0948 J	0.010 U	0.010 U	0.010 U	0.020 U	--
B-31	9/20/2016	1.53	NA	3.01	0.224 J	0.0022	0.0033	0.0067	0.0116	--
B-31	12/7/2016	0.086 J	NA	1.1	0.15 J	0.00034	0.0010 U	0.0010 U	0.0030 U	--
B-31	3/21/2017	0.240	NA	2.8	0.23 J	0.00019 J	0.0010 U	0.00069 J	0.0015 J	--
B-31	6/21/2017	0.470	NA	3.5	0.27 J	0.00026 J	0.0010 U	0.00068 J	0.00095 J	--
B-31	9/20/2017	0.530	NA	4.3	0.36 J	0.00038 J	0.00062 J	0.00079 J	0.0030	--
B-31	12/11/2017	0.110 J	NA	1.1	0.19 J	0.00016 J	0.0010 U	0.00026 J	0.00022 J	--
B-31	3/20/2018	0.38	NA	3.0	0.25 J	0.00020 J	0.0010 U	0.00035 J	0.0011 J	--
B-31	6/18/2018	0.67	NA	2.9	0.25 J	0.00073	0.0015	0.0052	0.0073	--
B-31	9/19/2018	1.10	NA	5.2	0.78	0.0011	0.0023	0.0040	0.0091	--
B-31	12/11/2018	0.89	NA	3.2	0.71	0.00092	0.0035	0.0066	0.0094	--
B-31	3/13/2019	0.070 U	NA	2.0	0.44	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
B-31	6/17/2019	0.50	NA	4.4	0.50	0.00068	0.0016	0.0030	0.0050	--
B-31	9/10/2019	0.820	NA	0.73	0.12 U	0.0034 J	0.0098	0.0095	0.0295	--
B-31	12/10/2019	2.20	NA	3.2	0.32 J	0.0018	0.0079	0.0200	0.0250	--
B-31	3/24/2020	0.390	NA	4.0	0.29 J	0.00055	0.00086 J	0.0016	0.0039	--
B-31	6/23/2020	0.990	NA	2.9	0.27 J	0.0013	0.0039	0.0099	0.018	--
B-31	9/21/2020	1.50	NA	2.5	0.26 J	0.0014	0.0043	0.0055	0.0170	--
B-31	12/15/2020	1.0	NA	1.3	0.15 J	0.00090	0.0035	0.0130	0.0130	--
B-31	3/29/2021	0.34	NA	3.7	0.51 J	0.000093 U	0.00031 U	0.00040 J	0.0017 J	--
B-31	6/23/2021	1.3	NA	2.3	0.16 J	0.00097	0.0029	0.0048	0.016	--
B-31	9/13/2021	1.4	NA	2.1	0.13 J	0.0016	0.0049	0.0061	0.022	--
B-31	12/7/2021	0.28	NA	2.8	0.69	0.000093 U	0.00055 J	0.0023	0.0032	--
B-31	2/8/2022	0.72	NA	2.6	0.22 J	0.00030 J	0.00031 U	0.00074 J	0.0019 J	--
B-31	5/4/2022	0.36	NA	2.8	0.67	0.000093 U	0.00031 U	0.00020 U	0.00086 J	--
B-31	8/2/2022	1.20	NA	1.4	0.13 U	0.00089	0.0020	0.0028	0.011	--
B-31	4/12/2023	0.093 J	NA	0.96	0.11 U	0.000093 U	0.00031 U	0.00037 J	0.00054 J	--
B-31	10/4/2023	1.30	NA	3.8	0.79 J	0.0014	0.0034	0.0080	0.014	--
B-34	12/21/2006	2.4 J	NA	1.44	0.472 U	0.077 J	0.00496 J	0.0276 J	0.00404 J	--
B-34	2/8/2007	3.28 J	NA	1.22	0.472 U	0.0816	0.00757	0.169	0.00888	--
B-34	5/9/2007	3.57 J	NA	1.21	0.472 U	0.16	0.00667 J	0.192	0.00813 J	--
B-34	8/1/2007	3.5 J	NA	2.49	0.49 U	0.0803 J	0.00648 J	0.0225 J	0.004 J	--
B-34	11/6/2007	2.91	NA	1.87	0.476 U	0.0593	0.00622	0.00744	0.006	--
B-34	2/14/2008	2.58	NA	1.01	0.472 U	0.0557	0.0048	0.0612	0.00582	--
B-34	5/5/2008	3.21	NA	2.17	0.472 U	0.0545	0.00545	0.151	0.00907	--
B-34	8/14/2008	2.27	NA	2.96	0.5 U	0.043	0.00591	0.00708	0.00572	--
B-34	11/11/2008	3.49	NA	2.06	0.476 U	0.0784	0.00714	0.00764	0.00696	--

Table 2
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D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								Naphthalene
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:		15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:		--				0.08	--	--	--	--
B-34	2/24/2009	4.53 J	NA	1.22	0.472 U	0.491 J	0.00644 J	0.0111 J	0.00616 J	--
B-34	5/11/2009	6.02	NA	2.16	0.476 U	1.4	0.00793	0.0134	0.01 U	--
B-34	8/12/2009	3.9	NA	2.6	0.24 U	1.0	0.0058	0.014	0.002 U	--
B-34	11/11/2009	3.8	NA	3.2	0.24 U	0.130	0.0068	0.011	0.001 U	--
B-34	3/23/2010	3	NA	14	0.24 U	0.063	0.0038	0.01	0.002 U	--
B-34	6/11/2010	2.9	NA	4.3 J	0.4	0.034	0.0041	0.0044	0.002 U	--
B-34	9/15/2010	2.7	NA	6.1	0.28	0.039	0.0057	0.0033	0.002 U	--
B-34	12/21/2010	1.5	NA	2 J	1.4 J	0.590	0.0031	0.0027	0.002 U	--
B-34	3/11/2011	2	NA	4.3 J	0.24 U	0.490	0.0036	0.0051	0.002 U	--
B-34	6/16/2011	1.7	NA	3	0.31	0.720	0.0045	0.0064	0.002 U	--
B-34	10/6/2011	2.82	NA	2.02	0.495 U	0.497	0.005 U	0.0063	0.01 U	--
B-34	12/5/2011	2.2	NA	4.8 J	0.59	0.073 J	0.0055	0.0054	0.002 U	--
B-34	4/3/2012	1.4	NA	9.7	1.3	0.510 J	0.004	0.0033	0.002 U	--
B-34	6/14/2012	2.4	NA	5.6	0.33	0.600	0.0044	0.0037	0.002 U	--
B-34	9/13/2012	2.3	NA	2.2	0.24 U	0.560 J	0.0059	0.0056	1.9 J	--
B-34	12/12/2012	0.44	NA	2.9	0.3	0.130	0.0011	0.001 U	0.002 U	--
B-34	3/14/2013	1.7	NA	9.1 J	1.4	0.560	0.0051	0.01	0.002 U	--
B-34	6/11/2013	2.6	NA	5.3	0.51 J	0.430	0.0049	0.006	0.002 U	--
B-34	9/26/2013	3.5	NA	3.5 J	0.24 U	0.390	0.01 U	0.01 U	0.02 U	--
B-34	12/4/2013	3.3	NA	1.5	0.24 U	0.900	0.0067	0.0078	0.002 U	--
B-34	3/5/2014	0.68	NA	5.8	0.65	0.39 J	0.0036	0.0030	0.0020 U	--
B-34	6/9/2014	2.5 J	NA	7.7	0.61	1.1	0.0054	0.0071	0.0020 U	--
B-34	9/23/2014	2.1 J	NA	6.7	0.36	0.90	0.0083	0.020 U	0.010 U	--
B-34	12/15/2014	0.55	NA	12	1.2	0.13	0.0010 U	0.0010 U	0.0020 U	--
B-34	3/25/2015	3.0	NA	10	1.3	0.84	0.0062	0.010	0.0030 U	--
B-34	6/16/2015	0.26	NA	8.9	1.1	0.83	0.080 U	0.12 U	0.12 U	--
B-34	9/24/2015	2.0 J	NA	10	0.60	0.42 J	0.0043	0.0050	0.0030 U	--
B-34	12/21/2015	0.32	NA	16	0.78	0.0015	0.0010 U	0.0010 U	0.0030 U	--
B-34	3/23/2016	0.207	NA	3.55	0.96 U	0.00060 J	0.0010 U	0.0010 U	0.0020 U	--
B-34	6/22/2016	1.87 J	NA	4.04	0.259 J	0.213 J	0.0030 J	0.0058 J	0.020	--
B-34	9/22/2016	1.49	NA	12.2	1.06	0.168	0.0056	0.0059	0.0019 J	--
B-34	12/7/2016	0.870	NA	6.9	0.43	0.150	0.0016	0.0022	0.00064 J	--
B-34	3/21/2017	0.130 J	NA	10	0.73	0.00023 J	0.0010 U	0.0010 U	0.0030 U	--
B-34	6/22/2017	2.20	NA	12	0.62	0.410	0.0056	0.0098	0.0022 J	--
B-34	9/20/2017	2.10	NA	22	0.94	0.230	0.0060 J	0.0071 J	0.0048 J	--
B-34	12/11/2017	1.4	NA	12	0.67	0.260	0.0031	0.0033	0.00078 J	--
B-34	3/21/2018	2.2	NA	8.9	0.45	0.43	0.0058	0.0086	0.0015 J	--
B-34	6/19/2018	2.5	NA	10	0.51	0.35	0.0053	0.0090	0.0020 J	--
B-34	9/18/2018	2.0	NA	23	3.6	0.190	0.0057	0.0060	0.0018 J	--
B-34	12/10/2018	2.5	NA	21	3.5	0.088	0.0051	0.0046	0.0011 J	--
B-34	3/14/2019	1.3	NA	7.4	0.62	0.130	0.0031	0.0043	0.0012 J	--
B-34	6/18/2019	1.9 J	NA	24	3.0	0.190	0.0062 U	0.0100 J	0.0088 U	--
B-34	9/10/2019	1.70 J	NA	2.8	0.31 J	0.110	0.0028 J	0.0066 J	0.0061 U	--
B-34	12/11/2019	2.20	NA	15	0.90	0.054	0.0056	0.0070	0.0010 J	--
B-34	3/23/2020	1.90	NA	8.9	0.59	0.19	0.0052	0.0071	0.0017 J	--
B-34	6/24/2020	2.50 J	NA	14	1.6 J	0.13 J	0.0055 J	0.012	0.0044 UJ	--
B-34	9/22/2020	2.10	NA	13	0.82	0.10	0.0070	0.0087	0.0012 J	--
B-34	12/14/2020	2.3	NA	13	0.77	0.13	0.0040	0.010	0.0014 J	--
B-34	3/30/2021	2.1	NA	6.2	0.58	0.13	0.0062	0.0036	0.00076 J	--
B-34	6/23/2021	2.8	NA	8.4	0.60	0.13	0.0063	0.0090	0.0012 J	--
B-34	9/14/2021	1.8	NA	11	0.75	0.083	0.0056	0.0039	0.0011 J	--
B-34	12/7/2021	0.91	NA	18	2.2	0.031	0.00070 J	0.00047 J	0.00044 U	--
B-34	2/9/2022	0.70	NA	7.7	0.75	0.023	0.0014	0.00078 J	0.00044 U	--
B-34	5/4/2022	3.2	NA	17	2.1	0.11	0.0055	0.0049	0.0013 J	--
B-34	8/3/2022	2.6 J	NA	10	0.73	0.069 J	0.0051 J	0.0065 J	0.0012 J	--
B-34	4/12/2023	1.7	NA	3.7	0.24 J	0.017	0.0020	0.00093 J	0.00098 J	--
B-34	10/3/2023	2.3 J	NA	4.7	0.37 J	0.022	0.0031 U	0.0020 U	0.0044 U	--
E-20	2/26/2008	1.320	NA	0.669	0.472 U	0.00355	0.00187	0.0455 J	0.0644 J	--
E-20	5/5/2008	0.136	NA	0.238 U	0.476 U	0.00125	0.0005 U	0.00381	0.0011	--
E-20	8/14/2008	0.05 U	NA	0.236 U	0.472 U	0.0005 U	0.0005 U	0.000537	0.001 U	--
E-20	11/13/2008	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
E-20	2/24/2009	0.05 U	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
E-20	5/12/2009	0.0689	NA	0.236 U	0.472 U	0.0005	0.0005 U	0.0005 U	0.001 U	--
E-20	8/11/2009	0.086	NA	0.41	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
E-20	11/10/2009	0.170	NA	0.92	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--
E-20	3/30/2010	0.094	NA	4.40	0.82	0.001 U	0.001 U	0.001 U	0.002 U	--
E-20	6/15/2010	0.100	NA	4.70	1.10	0.001 U	0.001 U	0.001 U	0.002 U	--
E-20	9/13/2010	NS	NA	NS	NS	NS	NS	NS	NS	NS
E-20	12/15/2010	NS	NA	NS	NS	NS	NS	NS	NS	NS
E-21	2/26/2008	2.560 J	NA	5.31	0.472 U	0.0128	0.00118	0.0766	0.0280	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
E-21	5/5/2008	1.390	NA	0.846	0.476 U	0.00211	0.0005 U	0.04	0.0173	--	
E-21	8/14/2008	1.200	NA	1.20	0.47 U	0.0138	0.0005 U	0.04	0.0190	--	
E-21	11/12/2008	0.944	NA	0.444	0.485 U	0.0005 U	0.0005 U	0.0150	0.00581	--	
E-21	2/23/2009	0.538	NA	0.240 U	0.481 U	0.0023	0.0005 U	0.00422	0.00266	--	
E-21	5/12/2009	0.824	NA	1.990	0.476 U	0.0017	0.0005 U	0.01010 U	0.0041 U	--	
E-21	8/11/2009	1.2	NA	3.1	0.2 U	0.0120	0.001 U	0.018	0.0077	--	
E-21	11/10/2009	0.6	NA	8.7	0.6	0.0031	0.001 U	0.005	0.001 U	--	
E-21	3/30/2010	0.1 U	NA	0.9	0.7	0.0010 U	0.001 U	0.001 U	0.002 U	--	
E-21	6/15/2010	0.6	NA	16.0	2.2	0.0053	0.001 U	0.002	0.002 U	--	
E-21	9/16/2010	1.4	NA	24.0	1.9	0.0130	0.001 U	0.014	0.0056	--	
E-21	12/16/2010	0.05 U	NA U	2	2	0.001 U	0.001 U	0.001 U	0.002 U	--	
E-21	3/10/2011	0.05 U	NA U	0.81	0.6	0.001 U	0.001 U	0.001 U	0.002 U	--	
E-21	6/15/2011	0.16	NA	4.8	2.8	0.0016	0.001 U	0.0011	0.002 U	--	
E-21	9/29/2011	0.16 UJ	NA UJ	4.5 J	1.8 J	0.00062 J	0.001 UJ	0.001 UJ	0.002 UJ	--	
E-21	12/7/2011	0.2	NA U	3.8	0.96	0.0021	0.001 U	0.001	0.002 U	--	
E-21	4/4/2012	0.05 U	NA U	3	3	0.001 U	0.001 U	0.001 U	0.002 U	--	
E-21	6/14/2012	0.53	NA	4.3 J	0.42	0.001 U	0.001 U	0.0026	0.002 U	--	
E-21	9/13/2012	0.05 U	NA	0.59	0.24 U	0.0014	0.001 U	0.0012	0.00015 J	--	
E-21	12/10/2012	0.05 U	NA	0.81	0.25	0.001 U	0.001 U	0.001 U	0.002 U	--	
E-21	3/13/2013	0.17	NA	21	5.4	0.0019	0.001 U	0.0014	0.002 U	--	
E-21	6/10/2013	0.23	NA	3.1	1.2	0.001 U	0.001 U	0.001 U	0.002 U	--	
E-21	9/27/2013	0.25 U	NA	1	0.24	0.0013	0.0025 U	0.0025 U	0.005 U	--	
E-21	12/5/2013	0.21	NA	0.61	0.27	0.0044	0.001 U	0.001 U	0.002 U	--	
E-21	3/5/2014	0.05 U	NA	0.58	0.38	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
E-21	6/11/2014	0.18	NA	11	1.7	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
E-21	9/26/2014	0.33	NA	8.8	3.5	0.012	0.0010 U	0.0034	0.0020 U	--	
E-21	12/16/2014	0.050 U	NA	1.3	1.5	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
E-21	3/25/2015	0.050 U	NA	1.4	1.2	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
E-21	6/17/2015	0.052	NA	2.3	0.70	0.0020 UJ	0.0020 UJ	0.0030 UJ	0.0030 UJ	--	
E-21	9/24/2015	0.59	NA	3.3	0.25 U	0.0083 J	0.0020 U	0.0030 U	0.0030 U	--	
E-21	12/22/2015	0.45	NA	1.3	0.74	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
E-21	3/23/2016	0.100 U	NA	0.309	0.170 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
E-21	6/22/2016	0.100 U	NA	1.27	0.201 J	0.010 U	0.010 U	0.010 U	0.020 U	--	
E-21	9/20/2016	0.321	NA	8.77	0.686 J	0.0087	0.00083 J	0.00041 J	0.0013 J	--	
E-21	12/7/2016	0.100 U	NA	1.6	0.66	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
E-21	12/7/2016	0.100 U	NA	1.6	0.66	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
E-21	3/22/2017	0.150 U	NA	0.69	0.43	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
E-21	6/21/2017	0.150 U	NA	2.5	0.57	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
E-21	9/19/2017	0.260	NA	14	1.0	0.0018	0.00033 J	0.00046 J	0.0016 J	--	
E-21	3/19/2018	0.150 U	NA	2.1	0.57	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
E-21	9/17/2018	0.210	NA	17	4.7	0.0024	0.00036 J	0.00021 J	0.0015 J	--	
E-21	3/13/2019	0.070 U	NA	2.5	2.0	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
E-21	9/10/2019	0.260	NA	1.8	0.18 J	0.00054 J	0.00013 U	0.00014 U	0.00031 U	--	
E-21	3/23/2020	0.070 U	NA	4.8 J	0.96 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
E-21	9/21/2020	0.070 U	NA	4.3	0.78	0.0011	0.00031 U	0.00020 U	0.00044 U	--	
E-21	3/29/2021	0.070 U	NA	2.7	0.88	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
E-21	9/13/2021	0.100 J	NA	5.5	0.82	0.0022	0.00031 J	0.00020 U	0.00078 J	--	
E-21	8/2/2022	0.230	NA	5.9	0.77	0.0011	0.00036 J	0.0002 U	0.00073 J	--	
E-21	10/3/2023	1.5 U	NA	7.0	0.99	0.00093 U	0.0031 U	0.0020 U	0.0044 U	--	
G-1	12/20/2006	0.05 U	NA U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
G-1	2/6/2007	0.123	NA U	0.240 U	0.481 U	0.00142	0.0005 U	0.00435	0.001 U	--	
G-1	5/8/2007	1.12 J	NA U	0.236 U	0.472 U	0.0125	0.000896	0.0681	0.00485	--	
G-1	8/1/2007	0.731 J	NA U	0.240 U	0.481 U	0.0118	0.000772	0.00708	0.001 U	--	
G-1	11/6/2007	0.537	NA U	0.253 U	0.505 U	0.00154	0.0005 U	0.00192	0.00117	--	
G-1	2/14/2008	0.419	NA U	0.236 U	0.472 U	0.00182	0.0005 U	0.00142	0.001 U	--	
G-1	5/5/2008	1.09	NA U	0.236 U	0.472 U	0.0273	0.000995	0.0164	0.00111	--	
G-1	8/14/2008	0.846	NA U	0.243 U	0.485 U	0.0138	0.000751	0.00415	0.0011	--	
G-1	11/11/2008	1.08	NA U	0.238 U	0.476 U	0.007	0.000679	0.0124	0.00255	--	
G-1	2/26/2009	0.293	NA U	0.236 U	0.472 U	0.0029	0.0005 U	0.00713	0.001 U	--	
G-1	5/13/2009	0.432	NA U	0.238 U	0.476 U	0.00514	0.000512	0.0144	0.001 U	--	
G-1	8/12/2009	1.1	NA U	0.38	0.24 U	0.0098	0.001 U	0.004	0.002 U	--	
G-1	11/10/2009	1.1	NA U	0.26	0.24 U	0.0011	0.001 U	0.0025	0.001 U	--	
G-1	3/25/2010	0.05 U	NA U	0.12 U	1.1	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-1	6/11/2010	0.43	NA U	0.83	0.42	0.0015	0.001 U	0.011	0.002 U	--	
G-1	9/13/2010	NS	NA	NS	NS	NS	NS	NS	NS	NS	
G-1	12/15/2010	NS	NA	NS	NS	NS	NS	NS	NS	NS	
G-8	12/19/2006	18.8	NA	1.68	0.472 U	0.0198	0.0402	1.8	0.667	--	
G-8	2/7/2007	14.1 J	NA	1.39	0.472 U	0.0164	0.0623	1.29	0.809	--	
G-8	5/9/2007	14.4	NA	4.05	0.681	0.0202	0.0539	1.73	0.465	--	

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WELL ID		DATE		CONCENTRATION (mg/L)							Naphthalene
				TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	
Site-Specific Groundwater Cleanup Level:		15			0.16		20	1.7	--	--	
Site-Specific Surface Water Cleanup Level:		15			0.04		5	0.43	--	--	
Site-Specific Contingency Trigger Level:		--			0.08		--	--	--	--	
G-8	8/2/2007	17.1	NA	17.9	26.6 U	0.0369	0.0624	1.91	0.737	--	
G-8	11/7/2007	22.7	NA	186	10.3	0.0457	0.014	2.62	0.194	--	
G-8	2/14/2008	17.6	NA	13.9	0.472 U	0.0191	0.0213	2.26	0.324	--	
G-8	5/5/2008	17.8	NA	6.43	0.554	0.025 U	0.037	2.39	0.371	--	
G-8	8/14/2008	17.5	NA	1.22	0.476 U	0.025 U	0.0408	2.28	0.976	--	
G-8	11/12/2008	16	NA	68.8	4.8 UJ	0.025 U	0.0383	2.29	0.427	--	
G-8	2/25/2009	14.1	NA	1.96	0.47 U	0.0125 U	0.0338	1.66	0.729	--	
G-8	5/13/2009	11.3	NA	4.01	0.48 U	0.0376	0.0183	1.58	0.27	--	
G-8	8/14/2009	10	NA	3.4	0.3 U	0.037	0.0051	1.40	0.095	--	
G-8	11/12/2009	21	NA	33	2.7	0.014	0.0053	1.90	0.1163	--	
G-8	3/24/2010	11	NA	8.5	1.0	0.054	0.0043	3.00	0.0139	--	
G-8	6/8/2010	14	NA	12	1.0	0.03	0.0055	2.60	0.0482	--	
G-8	9/14/2010	17	NA	560	19.0	0.025	0.0059	2.80	0.0352	--	
G-8	12/16/2010	7.7	NA	2.9	0.8	0.0056	0.0025	1.30	0.0247	--	
G-8	3/8/2011	6.8	NA U	2.3	0.2 U	0.0054	0.0047	1.00	0.056	--	
G-8	6/14/2011	9.1	NA U	2.7	0.3 U	0.0082	0.0038	1.10	0.066	--	
G-8	10/6/2011	5.21	NA U	2.39	0.49 U	0.0108	0.0025 U	1.23	0.005 U	--	
G-8	12/6/2011	6.6	NA U	2.1	0.24 U	0.0052	0.0019	1.30	0.0024	--	
G-8	4/2/2012	4	NA U	2.2	0.28	0.0036	0.0013	0.54	0.002 U	--	
G-8	6/13/2012	6 J	NA	1.8 J	0.24 UJ	0.0035 J	0.002 J	0.64 J	0.0065 J	--	
G-8	9/11/2012	5.6	NA	2.5	0.73	0.006	0.0021	0.46	0.0091	--	
G-8	12/12/2012	1.7	NA	1.6	0.24 U	0.002	0.001 U	0.064	0.002 U	--	
G-8	3/13/2013	2.4	NA	1.8	0.34	0.0018	0.001	0.066	0.002 U	--	
G-8	6/11/2013	4	NA	3.2	0.27	0.0034	0.0022	0.086	0.0189	--	
G-8	9/24/2013	3.2	NA	2	0.3	0.0019	0.001 U	0.038	0.006	--	
G-8	12/3/2013	2.2	NA	0.93	0.24	0.0019	0.0014	0.076	0.0149	--	
G-8	3/3/2014	0.73	NA	0.73	0.38	0.0010 U	0.0010 U	0.0034	0.0020 U	--	
G-8	6/10/2014	2.8 J	NA	1.5	0.25 U	0.0014	0.0016	0.19	0.022	--	
G-8	9/25/2014	1.6 J	NA	0.86	0.39	0.0013	0.0010 U	0.037	0.0020 U	--	
G-8	12/16/2014	0.25	NA	0.55	0.34	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
G-8	3/24/2015	0.31	NA	0.46	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
G-8	6/16/2015	1.3	NA	1.0	0.27 U	0.0020 U	0.0020 U	0.041	0.0079	--	
G-8	9/21/2015	0.97 J	NA	0.56	0.26 U	0.0020 U	0.0020 U	0.015	0.0030 U	--	
G-8	12/21/2015	0.11	NA	0.61	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
G-8	3/21/2016	0.0806 J	NA	0.463	0.217	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
G-8	6/21/2016	0.868 J	NA	0.491	0.138 J	0.00063 J	0.00033 J	0.0107	0.0011 J	--	
G-8	9/22/2016	0.888	NA	1.72	0.178 J	0.0013	0.00042 J	0.0484	0.0012 J	--	
G-8	12/7/2016	0.820	NA	--	--	0.0007	0.00034 J	0.029	0.0046	--	
G-8	6/20/2017	0.500	NA	0.74 J	0.21 J	0.00042	0.0010 U	0.0058	0.0016 J	--	
G-8	9/19/2017	0.690	NA	0.0010	0.25 J	0.0010 J	0.0010 U	0.00071 J	0.00052 J	--	
G-8	9/18/2018	0.510	NA	0.97	0.55	0.00071	0.0010 U	0.00037 J	0.00091 J	--	
G-8	9/11/2019	0.340	NA	0.43	0.13 U	0.00042 J	0.00014 J	0.00059 J	0.00031 U	--	
G-8	9/22/2020	0.110 J	NA	0.30	0.14 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
G-8	9/14/2021	0.360	NA	0.38	0.12 U	0.00030 J	0.00031 U	0.016	0.00071 J	--	
G-8	8/1/2022	0.340	NA	0.43	0.13 U	0.000093 U	0.00031 U	0.0063	0.0014 J	--	
G-8	10/3/2023	0.15 U	NA	0.48	0.24 J	0.000093 U	0.00031 U	0.00067 J	0.00044 U	--	
G-16	9/16/2010	0.05 U	4.7 U	0.67	0.79	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	12/16/2010	0.05 U	4.9 U	0.2	0.7	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	3/9/2011	0.05 U	5.2 U	0.1 U	0.2 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	6/15/2011	0.05 U	5.00 U	0.2	0.2 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	10/4/2011	0.08 U	5.00 U	0.26	0.25 U	0.0004 U	0.001 U	0.001 U	0.002 U	--	
G-16	12/6/2011	0.05 U	4.90 U	0.15	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	4/4/2012	0.05 U	5.20 U	0.62	0.6	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	6/12/2012	0.056	NA	0.17	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	9/10/2012	0.05 U	NA	0.15	0.31	0.00077 J	0.001 U	0.001 U	0.002 U	--	
G-16	12/10/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	3/14/2013	0.05 U	NA	0.28	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	6/11/2013	0.056	NA	0.057	0.052	0.001 U	0.001 U	0.001 U	0.002 U	--	
G-16	9/27/2013	0.25 U	NA	0.25	0.24 U	0.001 U	0.0025 U	0.003 U	0.005 U	--	
G-16	9/25/2014	0.050 U	NA	1.5 J	1.3	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
G-16	9/23/2015	0.067	NA	0.93	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
G-16	9/22/2016	0.10 U	NA	1.05	0.174	0.00023 J	0.0010 U	0.0010 U	0.0030 U	--	
G-16	9/21/2017	0.15 U	NA	0.52	0.20 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
G-16	9/18/2018	0.15 U	NA	0.93	1.1	0.00027 J	0.0010 U	0.0010 U	0.0030 U	--	
G-16	9/10/2019	0.053 J	NA	0.21 J	0.12 U	0.00070 J	0.00013 U	0.00038 J	0.00031 U	--	
G-16	9/23/2020	0.070 U	NA	0.27	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
G-18	12/21/2006	0.0646	4.90 U	0.243 U	0.485 U	0.00535	0.0005 U	0.00159	0.001 U	--	
G-18	2/6/2007	0.0664	4.76 U	0.236 U	0.472 U	0.00367	0.0005 U	0.00137	0.001 U	--	
G-18	5/8/2007	0.305	4.76 U	0.764	0.476 U	0.0288	0.0005 U	0.00598	0.001 U	--	

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene	
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH		B	T	E		X ^a
Site-Specific Groundwater Cleanup Level:			15				0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08		--	--	--	--
G-18	8/1/2007	1.27	5.21 U	1.57	0.5 U	0.267	0.000776	0.0317	0.00257		--	
G-18	11/7/2007	1.48	4.95 U	2.39	0.505 U	0.214	0.0025 U	0.0457	0.00598		--	
G-18	2/14/2008	0.315	4.81 U	0.386	0.481 U	0.0307	0.0005 U	0.0101	0.00172		--	
G-18	5/5/2008	0.53	4.72 U	0.457	0.476 U	0.0723	0.0005 U	0.0176	0.00255		--	
G-18	8/14/2008	0.549	5.21 U	0.798	0.495 U	0.0934	0.0005 U	0.0157	0.00275		--	
G-18	11/13/2008	0.946	4.76 U	1.25	0.476 U	0.214	0.000637	0.0202	0.00371		--	
G-18	2/27/2009	0.050 U	4.81 U	0.238 U	0.476 U	0.00104	0.0005 U	0.0005 U	0.001 U		--	
G-18	5/12/2009	0.0706	4.72 U	0.24	0.472 U	0.00817	0.0005 U	0.0005 U	0.001 U		--	
G-18	8/12/2009	1.5	8.8	11	0.51	0.200	0.0014	0.016	0.0033		--	
G-18	11/11/2009	0.78	5 U	0.97	0.24 U	0.150	0.001 U	0.012	0.0011		--	
G-18	3/25/2010	0.05 U	5 U	0.13	0.26	0.002	0.001 U	0.001 U	0.002 U		--	
G-18	6/14/2010	0.20	5.3 U	1.4	0.33	0.035	0.001 U	0.0022	0.002 U		--	
G-18	9/15/2010	0.57 J	5 U	1.8 J	0.24 U	0.140	0.001 U	0.011	0.002 U		--	
G-18	3/7/2011	0.10	5.7	0.28	0.24 U	0.014 J	0.001 U	0.0018	0.002 U		--	
G-18	6/15/2011	0.21	5 U	0.49	0.24 U	0.049	0.001 U	0.0056	0.002 U		--	
G-18	10/3/2011	0.403 J	5.7 UJ	0.845 J	0.485 UJ	0.079 J	0.0025 UJ	0.00715 J	0.005 UJ		--	
G-18	12/5/2011	0.48	5.3 U	1.2	0.24 U	0.082	0.0016	0.0066	0.001		--	
G-18	4/5/2012	0.05 U	5.1 U	1.1	1.3	0.0019	0.001 U	0.001 U	0.002 U		--	
G-18	6/13/2012	1.6 J	NA	1.1 J	0.24 UJ	0.001 UJ	0.001 UJ	0.0057 J	0.002 UJ		--	
G-18	9/12/2012	0.87	NA	1.4	0.24 U	0.075	0.0011	0.002	0.0027		--	
G-18	12/13/2012	0.077	NA	0.29	0.27	0.0083	0.001 U	0.001 U	0.002 U		--	
G-18	3/14/2013	0.08	NA	0.49	0.24 U	0.0064	0.001 U	0.001 U	0.002 U		--	
G-18	6/12/2013	0.35 J	NA	0.66 J	0.21	0.016	0.001 U	0.001 U	0.002 U		--	
G-18	9/24/2013	0.75	NA	1.1	0.87	0.027	0.001 U	0.001 U	0.002 U		--	
G-18	12/3/2013	0.18	NA	0.47	0.24 U	0.0061 J	0.001 U	0.001 U	0.002 U		--	
G-18	3/5/2014	0.30	NA	1.2	0.58	0.0097	0.0050 U	0.0050 U	0.0050 U		--	
G-18	6/9/2014	0.21	NA	1.5	0.74	0.0011	0.0010 U	0.0010 U	0.0020 U		--	
G-18	9/25/2014	0.21	NA	1.9	1.1	0.0028	0.0010 U	0.0010 U	0.0020 U		--	
G-18	12/15/2014	0.18	NA	1.1 J	0.46	0.0050	0.0010 U	0.0010 U	0.0020 U		--	
G-18	3/24/2015	0.060	NA	0.52	0.27	0.0020 U	0.0020 U	0.0030 U	0.0030 U		--	
G-18	6/16/2015	0.26 J	NA	1.6	0.86	0.0021	0.0020 U	0.0030 U	0.0030 U		--	
G-18	9/22/2015	0.49	NA	1.6	0.26 U	-- R	-- R	-- R	-- R		--	
G-18	12/22/2015	0.10 U	NA	0.92	0.56	0.0012	0.0010 U	0.0010 U	0.0030 U		--	
G-18	3/23/2016	0.148	NA	0.951	0.538	0.00067 J	0.0010 U	0.0010 U	0.0020 U		--	
G-18	6/22/2016	0.225 J	NA	0.840	0.319 J	0.0011	0.0010 U	0.0010 U	0.0020 U		--	
G-18	9/22/2016	0.433	NA	1.85	0.298	0.0077	0.00041 J	0.00035 J	0.0030 U		--	
G-18	12/7/2016	0.054 J	NA	0.75	0.28 U	0.00040	0.00100 U	0.00100 U	0.0030 U		--	
G-18	3/20/2017	0.150 U	NA	0.34	0.35 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U		--	
G-18	6/22/2017	0.150 U	NA	1.4	0.78	0.00040 U	0.0010 U	0.0010 U	0.0030 U		--	
G-18	9/18/2017	0.170	NA	1.1	0.20 J	0.0012	0.0010 U	0.00034 J	0.00058 J		--	
G-18	3/19/2018	0.150 U	NA	1.1	0.45	0.00032 J	0.0010 U	0.0010 U	0.0030 U		--	
G-18	9/18/2018	0.100 J	NA	2.4	1.6	0.00075	0.0010 U	0.0010 U	0.00052 J		--	
G-18	3/12/2019	0.070 U	NA	0.88	0.92	0.000093 U	0.00031 U	0.00020 U	0.00044 U		--	
G-18	9/11/2019	0.190	NA	0.61	0.14 U	0.00033 J	0.00033 J	0.00017 J	0.00043 J		--	
G-18	3/24/2020	0.070 U	NA	1.2	0.98	0.000093 U	0.00031 U	0.00020 U	0.00044 U		--	
G-18	9/25/2020	0.130 J	NA	0.92	0.22 J	0.00066	0.00031 U	0.00020 U	0.00044 U		--	
G-18	3/30/2021	0.077 J	NA	0.67	0.28 J	0.00048	0.00031 U	0.00020 U	0.00044 U		--	
G-18	9/14/2021	0.250	NA	1.2	0.14 J	0.00037 J	0.00031 U	0.00020 U	0.00052 J		--	
G-18	2/8/2022	0.073 J	NA	0.28	0.13 J	0.00013 J	0.00031 U	0.00020 U	0.00044 U		--	
G-18	8/3/2022	0.260 J	NA	1.3	0.35 J	0.00052 J	0.00031 UJ	0.00020 UJ	0.00044 UJ		--	
G-18	4/11/2023	0.130 J	NA	0.92	0.16 J	0.00062	0.00031 U	0.00020 U	0.00044 U		--	
G-18	10/3/2023	0.400	NA	1.4	0.43	0.00049	0.00033 J	0.00020 U	0.00044 U		--	
G-20	12/21/2006	2.59	4.81 U	0.802	0.472 U	0.759	0.005 U	0.0259	0.001 U		--	
G-20	2/8/2007	10.0 J	4.90 U	0.992	0.495 U	3.39	0.025 U	0.0471	0.05 U		--	
G-20	5/10/2007	1.34	4.76 U	1.73	0.472 U	0.272	0.00097	0.00651	0.0032		--	
G-20	8/1/2007	1.58	5.00 U	35.7	4.72 U	0.241	0.00306	0.00532	0.005 U		--	
G-20	11/7/2007	0.115	4.76 U	1.74	0.481 U	0.00224	0.0005 U	0.0005 U	0.001 U		--	
G-20	2/14/2008	0.584	4.76 U	1.84	0.476 U	0.0842	0.000609	0.00666	0.00168		--	
G-20	5/5/2008	1.13	6.02 U	2.96	0.476 U	0.264	0.000619	0.0134	0.00179		--	
G-20	8/15/2008	0.244	5.21 U	1.24	0.968	0.034	0.0025 U	0.00523	0.005 U		--	
G-20	11/12/2008	0.719	5.00 U	1.11	0.49 U	0.0414	0.000102	0.00071	0.00159		--	
G-20	2/26/2009	1.28	4.90 U	1.33	0.485 U	0.0952	0.00282	0.0998	0.00395		--	
G-20	5/13/2009	1.23	4.76 U	1.04	0.472 U	0.0962	0.00337	0.0162	0.00383		--	
G-20	8/12/2009	1.2	5.00 U	1.2	0.41	0.038	0.002 U	0.0990	0.004 U		--	
G-20	11/11/2009	2.2	5.00 U	2.1	0.38	0.099	0.0031	0.0800	0.0052		--	
G-20	3/29/2010	0.15	5.00 U	1.1	0.35	0.0056	0.001 U	0.0016	0.002 U		--	
G-20	6/9/2010	0.28	4.90 U	2.7	0.35	0.02	0.001 U	0.0041	0.002 U		--	
G-20	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS		NS	
G-20	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS		NS	
G-24	11/6/2007	5.77 J	NA	0.475	0.505 U	0.0147 J	0.0013 J	0.0218 J	0.00572 J		--	

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WELL ID		DATE		CONCENTRATION (mg/L)							Naphthalene
				TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	
Site-Specific Groundwater Cleanup Level:		15				0.16	20	1.7	--	--	
Site-Specific Surface Water Cleanup Level:		15				0.04	5	0.43	--	--	
Site-Specific Contingency Trigger Level:		--				0.08	--	--	--	--	
G-24	2/14/2008	4.06 J	NA	0.236 U	0.472 U	0.011	0.0025 U	0.0305	0.0307	--	
G-24	5/8/2008	6.22 J	NA	0.545	0.476 U	0.00892 J	0.00208 J	0.149 J	0.197 J	--	
G-24	8/13/2008	4.78 J	NA	0.553	0.472 U	0.0142	0.0025 U	0.0212	0.00734	--	
G-24	11/12/2008	5.80 J	NA	0.820	0.481 U	0.0283 J	0.0025 U	0.0230 J	0.005 U	--	
G-24	2/24/2009	2.80 J	NA	0.236 U	0.472 U	0.0114	0.0025 U	0.0344	0.00624	--	
G-24	5/13/2009	3.69 J	NA	0.303	0.481 U	0.0131 J	0.00126 J	0.0572 J	0.0117 J	--	
G-24	8/12/2009	7.70	NA	1.6	0.2 U	0.013	0.0013	0.0670	0.00911	--	
G-24	11/10/2009	7.90	NA	2.2	0.3 U	0.016	0.0014	0.0220	0.0013	--	
G-24	3/26/2010	0.38	NA	0.2	0.3 U	0.001 U	0.001 U	0.0076	0.0474	--	
G-24	6/9/2010	3.40	NA	1.2	0.2 U	0.0013	0.001 U	0.2100	0.25	--	
HC-108	11/8/2007	7.02	NA	14	0.49 U	0.021	0.032	0.252	1.06	--	
HC-108	2/15/2008	2.15	NA	2.26	0.472 U	0.00433	0.00337	0.178	0.332	--	
HC-108	5/8/2008	7.62	NA	2.32	0.481 U	0.0124	0.0148	0.594	1.64	--	
HC-108	8/15/2008	4.86	NA	1.33	0.476 U	0.0129	0.0158	0.321	1.02	--	
HC-108	11/12/2008	4.97	NA	3.15	0.485 U	0.0114	0.0116	0.228	0.745	--	
HC-108	2/27/2009	4.52	NA	2.40	0.48 U	0.00616	0.0063	0.457	0.841	--	
HC-108	5/14/2009	6.79	NA	1.39	0.49 U	0.00872	0.00917	0.575	1.17	--	
HC-108	8/14/2009	8.3	NA	3.10	0.34	0.05 U	0.01	0.580	0.99	--	
HC-108	11/12/2009	8.8	NA	43	2	0.012	0.013	0.630	1.192	--	
HC-108	3/26/2010	2.3	NA	5	0.37	0.0023	0.0018	0.150	0.169	--	
HC-108	6/14/2010	2.0	NA	5	0.35	0.0017	0.0017	0.140	0.191	--	
HC-111	12/21/2006	4.77	9.33	0.24 U	0.481 U	0.983	0.0386	0.15	0.128	--	
HC-111	2/8/2007	13.0	6.42	2.11	0.476 U	3.07	0.34	0.168	0.589	--	
HC-111	5/10/2007	29.1	6.00	0.394	0.472 U	6.16	1.54	0.972	2.02	--	
HC-111	8/1/2007	12.1	4.95 U	16.8 J	4.9 U	3.7	0.12	0.43	0.57	--	
HC-111	11/8/2007	20.8	5.43 U	4.75	0.51 U	6.15	0.05 U	0.597	0.549	--	
HC-111	2/15/2008	7.89	4.72 U	0.236 U	0.472 U	1.76	0.0726	0.193	0.728	--	
HC-111	5/5/2008	16.5	4.76 U	0.36	0.481 U	4.1	0.304	0.811	0.895	--	
HC-111	8/15/2008	14.4	NA	2.25	4.72 U	4.55	0.05 U	0.43	0.1 U	--	
HC-111	11/12/2008	19	4.81 U	4.66	0.481 U	5.25	0.05 U	1.17	0.411	--	
HC-111	2/27/2009	3.86	4.76 U	15.0	2.4 U	0.719	0.005 U	0.309	0.134	--	
HC-111	5/14/2009	2.52	4.85 U	4.99	0.48 U	0.313	0.005 U	0.274	0.0184	--	
HC-111	8/14/2009	4.6	5.0 U	5.80	0.24 U	3.100	0.0027	0.79	0.022	--	
HC-111	11/12/2009	6.1	5.0 U	3.8	0.2 U	2.400	0.0093	0.91	0.186	--	
HC-111	3/26/2010	0.62	53.0	7.2	0.5	0.073	0.001 U	0.0044	0.013	--	
HC-111	6/14/2010	2.3	5.3 U	27.0	1.1	0.830	0.0079	0.082	0.218	--	
HC-111	9/16/2010	6.7	5.0 U	47.0	4.7	2.40	0.064	0.32	0.99	--	
HC-111	12/17/2010	5.7	5.3 U	21.0	5.0	1.30	0.045	0.21	1.24	--	
HC-111	3/10/2011	8.6	4.9 U	2.3	0.2 U	2.80	0.02	0.67	1.69	--	
HC-111	6/15/2011	10	5.0 U	3.8	0.9	2.70	0.011	0.66	2.096	--	
HC-111	10/3/2011	5.06	5.3 U	1.27	0.51 U	2.01	0.012	0.101	0.122	--	
HC-111	12/6/2011	1.7	5.3 U	1.6	0.25 U	0.76	0.0046	0.083	0.041	--	
HC-111	4/2/2012	0.86	5.3 U	19	5.8	1.10	0.0034	0.087	0.077	--	
HC-111	6/13/2012	5.1 J	NA	9.2 J	1.7 J	1.80 J	0.015 J	0.43 J	0.204 J	--	
HC-111	9/13/2012	2.7	NA	0.9	0.24 U	2.00 J	0.0086	0.088	0.033	--	
HC-111	12/13/2012	0.55	NA	0.32	0.24 U	0.30	0.0022	0.02	0.057	--	
HC-111	3/14/2013	2.5	NA	3.3	0.34	1.10	0.0076	0.24	0.06	--	
HC-111	6/12/2013	3.1	NA	1.1	0.056	1.20	0.011	0.1	0.159	--	
HC-111	9/26/2013	2.5	NA	0.39	0.24 U	0.61	0.005 U	0.03	0.01 U	--	
HC-111	12/5/2013	3.6	NA	0.74	0.24 U	1.70	0.0096	0.75	0.0549	--	
HC-111	3/5/2014	0.12	NA	4.2	1.2	0.30 J	0.0014 J	0.0010 U	0.0020 U	--	
HC-111	6/9/2014	1.6	NA	6.6	1.3	1.2	0.0042	0.24	0.16	--	
HC-111	9/23/2014	1.7 J	NA	3.7	0.5	0.79	0.0065	0.025	0.0078	--	
HC-111	12/16/2014	0.063	NA	5.5	2.1	0.084	0.0010 U	0.0010 U	0.0020 U	--	
HC-111	3/26/2015	0.65	NA	-- R	-- R	0.33	0.0020 U	0.057	0.021	--	
HC-111	6/17/2015	2.7	NA	8.9	1.7	0.76	0.040 U	0.060 U	0.060 U	--	
HC-111	9/22/2015	1.3 J	NA	3.7	0.25 U	-- R	-- R	-- R	-- R	--	
HC-111	12/22/2015	0.10 U	NA	0.70	0.40 U	0.018	0.0010 U	0.0010 U	0.0030 U	--	
HC-111	3/21/2016	1.46	NA	8.23	0.642 J	0.276	0.0065	0.569 ^a	0.159	--	
HC-111	6/22/2016	2.10 J	NA	2.50 J	0.48 UJ	0.392	0.0022 J	0.128	0.0481	--	
HC-111	9/21/2016	2.09 J	NA	5.55	0.387 J	0.385	0.0025 J	0.0188	0.0028 J	--	
HC-111	12/8/2016	0.420	NA	8.7	0.12 U	0.130	0.00045 J	0.0075	0.0035	--	
HC-111	3/20/2017	1.100 J	NA	4.9	0.36 J	0.300	0.0034 J	0.110	0.013 J	--	
HC-111	6/21/2017	2.30	NA	6.1	0.45	0.380	0.0095	0.380	0.200	--	
HC-111	9/19/2017	2.2	NA	8.5	0.51	0.370	0.0078	0.028	0.0071	--	
HC-111	12/12/2017	1.2	NA	5.2	0.61	0.190	0.0033	0.051	0.0049	--	
HC-111	3/19/2018	2.7	NA	5.3	0.39	0.35	0.0095	0.270	0.07	--	
HC-111	6/19/2018	1.2	NA	5.6	0.46	0.12	0.0040	0.033	0.0065	--	

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								Naphthalene
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:		15			0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15			0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:		--			0.08		--	--	--	--
HC-111	9/17/2018	1.7	NA	6.3	0.61	0.23	0.0071	0.022	0.0039	--
HC-111	12/10/2018	1.2	NA	12	2.70	0.084	0.0040	0.020	0.0030	--
HC-111	3/13/2019	1.9 J	NA	4.5	0.52	0.15	0.0092 J	0.060	0.0091 J	--
HC-111	6/17/2019	2.2	NA	9.2	0.87	0.12	0.0055	0.096	0.0028 J	--
HC-111	9/11/2019	1.2 J	NA	1.4	0.12 U	0.095	0.0065 J	0.046	0.0031 U	--
HC-111	12/11/2019	2.3	NA	9.1	0.67	0.130	0.0072	0.056	0.0031	--
HC-111	3/24/2020	0.48	NA	5.4	0.91	0.052	0.0012	0.0012	0.0029 J	--
HC-111	6/24/2020	1.9 J	NA	5.1	0.49	0.065	0.0078	0.078	0.017	--
HC-111	9/22/2020	1.30	NA	5.5	0.50	0.030	0.0035	0.0070	0.0031	--
HC-111	12/14/2020	1.7	NA	6.1	0.59	0.052	0.0032	0.0031	0.0033	--
HC-111	3/30/2021	0.63	NA	3.6	0.58	0.027	0.0016	0.016	0.0021 J	--
HC-111	6/23/2021	1.7	NA	3.8	0.38 J	0.035	0.0042	0.030	0.0027 J	--
HC-111	9/14/2021	1.5	NA	4.6	0.41	0.026	0.0053	0.0051	0.0022 J	--
HC-111	12/6/2021	1.0	NA	8.7	2.10	0.017	0.0024	0.0048	0.0018 J	--
HC-111	2/8/2022	1.8	NA	3.0	0.33 J	0.049	0.0022	0.35	0.012	--
HC-111	5/3/2022	2.8	NA	6.8	1.4	0.039	0.0038	0.33	0.023	--
HC-111	8/3/2022	2.50 J	NA	5.2	0.49	0.025 J	0.0039 J	0.092 J	0.0049 J	--
HC-111	4/12/2023	1.10	NA	2.2	0.15 J	0.0092	0.0030	0.0049	0.0025 J	--
HC-111	10/5/2023	2.30	NA	3.5	0.40 J	0.0130 J	0.0042 J	0.0077 J	0.0029 J	--
RW-2	12/21/2006	0.736 J	NA	0.245 U	0.629	0.0148	0.0005 U	0.000986	0.00106	--
RW-2	2/8/2007	0.947 J	NA	0.236 U	0.472 U	0.0248	0.0005 U	0.00189	0.001 U	--
RW-2	5/9/2007	0.866 J	NA	0.245 U	0.49 U	0.0178	0.0005 U	0.00228	0.001 U	--
RW-2	8/1/2007	0.602	NA	0.278 U	0.556 U	0.0053	0.0005 U	0.000802	0.001 U	--
RW-2	11/6/2007	2.13 J	NA	0.318	0.51 U	0.0254 J	0.000678 J	0.00508 J	0.00181 J	--
RW-2	2/13/2008	0.695	NA	0.236 U	0.472 U	0.00644	0.0005 U	0.000937	0.001 U	--
RW-2	5/5/2008	3.02	NA	0.42	0.476 U	0.0425	0.0013	0.0132	0.00118	--
RW-2	8/14/2008	0.479	NA	0.243 U	0.485 U	0.00152	0.0005 U	0.00183	0.001 U	--
RW-2	11/13/2008	1.26	NA	0.747	0.547	0.00161	0.0005 U	0.00174	0.00137	--
RW-2	2/26/2009	0.426	NA	4.55 J	1.6 J	0.00232	0.0005 U	0.0005 U	0.001 U	--
RW-2	5/14/2009	0.517 J	NA	0.238 U	0.476 U	0.00506 J	0.0005 U	0.000634 J	0.001 U	--
RW-2	8/12/2009	1.4	NA	0.45	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	11/11/2009	1.6	NA	0.52	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--
RW-2	3/25/2010	0.13	NA	0.12 U	0.61	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	6/8/2010	0.64	NA	0.71	0.61	0.0017	0.001 U	0.0012	0.002 U	--
RW-2	9/15/2010	0.61	5 U	1.2	2.8	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	12/21/2010	0.25	5.4 U	0.18	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	3/9/2011	0.24	5.2 U	0.2	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	6/15/2011	0.89	5 U	0.6	0.24 U	0.0025	0.001 U	0.0029	0.002 U	--
RW-2	10/3/2011	0.54	4.8 U	0.776	0.505 U	0.0004 U	0.001 U	0.001 U	0.002 U	--
RW-2	12/5/2011	1.1	4.9 U	0.64	0.24 U	0.001	0.001 U	0.0024	0.002 U	--
RW-2	4/9/2012	0.25	5.2 U	0.25	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	6/14/2012	0.96	NA	0.41 J	0.24 UJ	0.001 U	0.001 U	0.0037	0.002 U	--
RW-2	9/12/2012	2.7	NA	1.4	2	0.00077 J	0.00055 J	0.0087	0.002 U	--
RW-2	12/12/2012	0.063	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
RW-2	3/13/2013	1.8	NA	0.95	0.27 U	0.0062	0.001 U	0.024	0.002 U	--
RW-2	6/12/2013	3.2	NA	0.9	0.047 U	0.0045	0.001 U	0.013	0.002 U	--
RW-2	9/27/2013	2.0	NA	0.81	0.24 U	0.0022	0.005 U	0.0067	0.010 U	--
RW-2	12/3/2013	1.8	NA	0.41	0.24 U	0.0012	0.001 U	0.0062	0.002 U	--
RW-2	3/5/2014	0.93	NA	0.45	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
RW-2	6/12/2014	0.66	NA	0.50	0.25 U	0.0010 U	0.0010 U	0.0028	0.0020 U	--
RW-2	9/25/2014	1.6 J	NA	1.1	0.25 U	0.0010 U	0.0010 U	0.0043	0.0020 U	--
RW-2	12/16/2014	0.51	NA	0.36	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
RW-2	3/24/2015	0.074	NA	0.12	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
RW-2	6/17/2015	1.9 J	NA	1.2	0.25 U	0.0021	0.0020 U	0.016	0.0030 U	--
RW-2	9/21/2015	1.8 J	NA	0.88	0.25 U	0.0020 U	0.0020 U	0.0032	0.0020 U	--
RW-2	12/21/2015	0.20	NA	0.47	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--
RW-2	3/23/2016	0.100 U	NA	0.107	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
RW-2	6/22/2016	0.897 J	NA	0.454	0.135 J	0.0026	0.00020 J	0.0047	0.0020 U	--
RW-2	9/22/2016	1.12 J	NA	0.666	0.0634 J	0.00074 J	0.00041 J	0.0030	0.0030 U	--
RW-2	12/7/2016	0.029 J	NA	0.16	0.062 J	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--
RW-2	3/21/2017	0.150 U	NA	0.11 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
RW-2	6/21/2017	0.590	NA	0.49	0.41 UJ	0.00074	0.0010 U	0.0022	0.0030 U	--
RW-2	9/20/2017	0.870	NA	1.0	0.35 J	0.00032 J	0.0010 U	0.0015	0.0030 U	--
RW-2	9/20/2018	0.930	NA	1.3	0.31 J	0.00049	0.0010 U	0.0023	0.00062 J	--
RW-2	9/10/2019	1.200 J	NA	0.75	0.12 U	0.00071 J	0.00038 J	0.0048	0.00031 J	--
RW-2	9/22/2020	0.910	NA	0.84	0.13 U	0.00082	0.00034 J	0.0017	0.00044 U	--
RW-2	9/14/2021	1.2	NA	0.94	0.12 U	0.0011	0.00050 J	0.0035	0.00099 J	--
RW-2	8/1/2022	0.530	NA	0.36	0.13 U	0.0004	0.00031 U	0.0016	0.00044 U	--
RW-2	10/4/2023	1.5	NA	0.81	0.41 U	0.00035 J	0.00040 J	0.0019	0.00061 J	--
RW-5R	12/19/2006	18.2	NA	0.359	0.481 U	0.823	0.0106	0.948	1.83	--
RW-5R	2/7/2007	8.89 J	NA	0.238 U	0.476 U	0.209	0.025 U	0.585	0.800	--

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WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH		B	T	E	
Site-Specific Groundwater Cleanup Level:			15			0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15			0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08		--	--	--	--
RW-5R	5/9/2007	12.9	NA	0.378	0.472 U	0.213	0.01 U	0.894	1.38	--	
RW-5R	8/2/2007	21.7	NA	0.91	0.485 U	0.669	0.00938	1.55	2.12	--	
RW-5R	11/7/2007	23.5	NA	1.29 J	0.51 U	0.565	0.01 U	2.24	1.25	--	
RW-5R	2/13/2008	10.3	NA	0.54	0.472 U	0.415	0.005 U	1.19	0.426	--	
RW-5R	5/5/2008	14.6	NA	0.666	0.472 U	0.253	0.01 U	1.29	0.614	--	
RW-5R	8/14/2008	14	NA	0.913	0.476 U	0.310	0.01 U	0.97	0.381	--	
RW-5R	11/12/2008	10.5	NA	1.07	0.48 U	0.329	0.01 U	0.579	0.100	--	
RW-5R	2/25/2009	9.95	NA	0.549	0.472 U	0.119	0.005 U	0.869	0.852	--	
RW-5R	5/12/2009	8.95	NA	0.880	0.476 U	0.135	0.005 U	0.759	0.416	--	
RW-5R	8/13/2009	8.1	NA	1.6	0.49	0.120	0.0016	1.3	0.044	--	
RW-5R	11/12/2009	7.3	NA	1.9	0.24 U	0.110	0.0019	0.4	0.023	--	
RW-5R	3/24/2010	1.4	NA	0.5	0.25 U	0.010	0.001 U	0.05	0.006	--	
RW-5R	6/8/2010	4.9	NA	2.0	0.24 U	0.032	0.0011	0.24	0.010	--	
RW-5R	9/14/2010	3	4.7 U	1.8	0.24 U	0.055	0.001	0.21	0.002 U	--	
RW-5R	12/16/2010	5.6	4.9 U	1.7	0.24 U	0.040	0.0014	0.29	0.002 U	--	
RW-5R	3/8/2011	1.3	5 U	0.5	0.24 U	0.015	0.001 U	0.068	0.002 U	--	
RW-5R	6/14/2011	2	5.2 U	0.7	0.27 U	0.024	0.001 U	0.12	0.002 U	--	
RW-5R	10/6/2011	4.58	5.2 U	2.36	0.476 U	0.039	0.00106	0.14	0.002 U	--	
RW-5R	12/6/2011	6.6	5 U	2.2	0.24 U	0.028	0.0013	0.4	0.002 U	--	
RW-5R	4/2/2012	2.1	5.3 U	1.8	0.93	0.026	0.001 U	0.074	0.002 U	--	
RW-5R	6/14/2012	2.2	NA	0.59	0.24 U	0.023	0.001 U	0.12	0.002 U	--	
RW-5R	9/11/2012	3.5	NA	1.2	0.52	0.030	0.00072 J	0.18	0.0022	--	
RW-5R	12/12/2012	3.9 J	NA	1.9	0.24 U	0.094	0.0014	0.078	0.002 U	--	
RW-5R	3/13/2013	1.1	NA	0.56	0.27 U	0.009	0.001 U	0.023	0.002 U	--	
RW-5R	6/12/2013	1.5	NA	0.45	0.064	0.014	0.001 U	0.053	0.002 U	--	
RW-5R	9/24/2013	5.1	NA	1.5	0.27	0.029	0.001 U	0.029	0.002 U	--	
RW-5R	12/2/2013	3.4	NA	0.78	0.24 U	0.019	0.001 U	0.026	0.002 U	--	
RW-5R	3/4/2014	2.7	NA	1.4	0.41	0.0068	0.0010 U	0.010	0.0020 U	--	
RW-5R	6/11/2014	0.65	NA	0.33	0.25 U	0.0048 J	0.0010 U	0.018 J	0.0020 U	--	
RW-5R	9/24/2014	4.8 J	NA	1.4	0.28	0.015	0.0015	0.045	0.0020 U	--	
RW-5R	12/16/2014	6.3 J	NA	2.6	0.42	0.14	0.0013	0.039	0.0020 U	--	
RW-5R	3/23/2015	1.0	NA	0.53	0.24 U	0.011	0.0020 U	0.017	0.0030 U	--	
RW-5R	6/17/2015	1.9	NA	0.66	0.25 U	0.011	0.0020 U	0.034	0.0030 U	--	
RW-5R	9/21/2015	5.6 J	NA	1.2	0.25 U	0.022	0.0020 U	0.020	0.0030 U	--	
RW-5R	12/21/2015	3.5	NA	2.5	0.39 U	0.097	0.0012	0.044	0.0030 U	--	
RW-5R	3/21/2016	0.498	NA	0.189	0.19 U	0.0014	0.00022 J	0.0081	0.00054 J	--	
RW-5R	6/21/2016	0.817 J	NA	0.208	0.0538 J	0.0039	0.00038 J	0.0426	0.0018 J	--	
RW-5R	9/21/2016	4.71	NA	0.904	0.0838 J	0.0090	0.00075 J	0.0419	0.00063 J	--	
RW-5R	12/6/2016	1.900	NA	0.98	0.12 J	0.0037	0.00052 J	0.0082	0.00074 J	--	
RW-5R	3/20/2017	0.450	NA	0.29	0.12 J	0.00040 U	0.0010 U	0.23 J	0.0030 U	--	
RW-5R	6/20/2017	0.390	NA	0.31 J	0.13 J	0.00034 J	0.0010 U	0.014	0.00049 J	--	
RW-5R	9/19/2017	1.8	NA	0.93	0.43 U	0.0044	0.00060 J	0.0068	0.0030 U	--	
RW-5R	12/11/2017	1.4	NA	0.75	0.15 J	0.00058	0.00042 J	0.0012	0.00025 J	--	
RW-5R	3/19/2018	0.340	NA	0.32	0.42 U	0.00012 J	0.0010 U	0.0010 U	0.0030 U	--	
RW-5R	6/18/2018	0.92	NA	0.52	0.42 U	0.0045	0.0010 U	0.0081	0.00061 J	--	
RW-5R	9/18/2018	2.3	NA	1.8	0.59	0.0020	0.00050 J	0.0064	0.0012 J	--	
RW-5R	12/10/2018	3.70	NA	2.8	0.82	0.078	0.00072 J	0.017	0.00073 J	--	
RW-5R	3/12/2019	0.54	NA	0.57	0.31 J	0.00016 J	0.00031 U	0.00020 U	0.00044 U	--	
RW-5R	6/18/2019	0.79	NA	0.87	0.16 J	0.00270	0.00031 U	0.0180	0.00061 J	--	
RW-5R	9/12/2019	2.100 J	NA	1.8	0.13 U	0.021	0.00059 J	0.0062	0.00023 J	--	
RW-5R	12/11/2019	4.300	NA	2.6	0.25 J	0.055	0.00091 J	0.0180	0.00096 J	--	
RW-5R	3/24/2020	0.89	NA	4.9	0.12 J	0.00033 J	0.00031 U	0.0014	0.00044 U	--	
RW-5R	6/23/2020	1.30	NA	0.55	0.14 J	0.0010	0.00031 U	0.0043	0.00063 J	--	
RW-5R	9/22/2020	3.50	NA	2.0	0.13 J	0.0064	0.0013	0.038	0.00086 J	--	
RW-5R	12/14/2020	2.8	NA	1.2	0.21 J	0.130	0.0011	0.029	0.0020 J	--	
RW-5R	3/30/2021	0.20	NA	0.24 J	0.13 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RW-5R	6/22/2021	1.6	NA	0.83	0.12 U	0.0021	0.00031 U	0.012	0.00075 J	--	
RW-5R	9/14/2021	3.9	NA	2.4	0.13 U	0.00090	0.00062 J	0.025	0.00083 J	--	
RW-5R	12/6/2021	4.6	NA	2.2	0.64	0.00450	0.00031 U	0.027	0.00110 J	--	
RW-5R	2/8/2022	0.69	NA	0.37	0.11 U	0.00027 J	0.00031 U	0.00020 U	0.00044 U	--	
RW-5R	5/3/2022	1.7	NA	0.85	0.39 J	0.00050	0.00031 U	0.0049	0.00044 U	--	
RW-5R	8/1/2022	2.1	NA	0.90	0.15 J	0.00130	0.00031 U	0.0100	0.00044 U	--	
RW-5R	4/11/2023	0.65	NA	0.31	0.11 U	0.000093 U	0.00031 U	0.00032 J	0.00044 U	--	
RW-5R	10/4/2023	7.10	NA	2.4	0.13 U	0.014	0.00067 J	0.029	0.00044 U	--	
RW-8	12/19/2006	3.32 J	NA	3.59	0.481 U	0.152	0.0123	0.0219	0.0198	--	
RW-8	2/7/2007	2.15 J	NA	4.88	0.549 U	0.130	0.00956	0.0145	0.0174	--	
RW-8	5/9/2007	2.62	NA	0.602	0.472 U	0.246	0.00988	0.0213	0.0333	--	
RW-8	8/2/2007	2.37	NA	2.60	4.81 U	0.196	0.00728	0.0101	0.0182	--	
RW-8	11/7/2007	2.12	NA	7.91	0.96	0.100	0.00782	0.0077	0.0137	--	
RW-8	2/13/2008	2.91	NA	12.20	0.93	0.098	0.0101	0.0146	0.0204	--	
RW-8	5/5/2008	3.07	NA	3.15	0.47 U	0.115	0.0141	0.0164	0.0284	--	

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Site-Specific Groundwater Cleanup Level:		15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:		--				0.08	--	--	--	--
RW-8	8/15/2008	2.59	NA	4.08	0.48	0.082	0.0117	0.0107	0.0246	--
RW-8	11/13/2008	1.84	NA	5.40	0.47 U	0.0834	0.00757	0.0005 U	0.0129	--
RW-8	2/25/2009	3.04 J	NA	1.15	0.47 U	0.0778 J	0.00688 J	0.0279 J	0.0227 J	--
RW-8	5/14/2009	2.77 J	NA	1.19	0.48 U	0.0773 J	0.00827 J	0.0311 J	0.0213 J	--
RW-8	8/12/2009	3.3	NA	1.50	0.24 U	0.0640	0.0047	0.0170	0.0173	--
RW-8	11/11/2009	3.8	NA	3.50	0.57	0.0580	0.0056	0.0120	0.0150	--
RW-8	3/24/2010	0.62	NA	2.40	0.25 U	0.0012	0.001 U	0.001 U	0.002 U	--
RW-8	6/8/2010	0.32	NA	3.80	0.71	0.0020	0.001 U	0.001 U	0.002 U	--
RW-8	9/15/2010	0.86	5 U	2.20	0.29	0.0120	0.001 U	0.0028	0.002 U	--
RW-8	12/16/2010	0.49	5.1 U	2.10	0.47	0.0090	0.001 U	0.0022	0.002 U	--
RW-8	3/8/2011	1.3	5.2 U	1.00	0.24 U	0.0180	0.001 U	0.0200	0.0078	--
RW-8	6/14/2011	1.4	4.9 U	1.90	0.25 U	0.0230	0.0014	0.0300	0.0080	--
RW-8	10/5/2011	0.848	5.2 U	43.8	3.91	0.0188	0.0025 U	0.0025 U	0.0050 U	--
RW-8	12/7/2011	1.1	5.3 U	1.9	0.24 U	0.0170	0.001 U	0.0010 U	0.0021	--
RW-8	4/9/2012	0.86	5.2 U	0.99	0.24 U	0.011	0.001 U	0.0012	0.0020 U	--
RW-8	6/13/2012	2.3 J	NA	2.7 J	0.48 J	0.0250 J	0.0022 J	0.0054 J	0.0020 J	--
RW-8	9/11/2012	2.9	NA	1.8	0.6	0.0260	0.003	0.0081	0.0035	--
RW-8	12/12/2012	1.0	NA	1.1	0.24 U	0.0270	0.0019	0.0015	0.0020	--
RW-8	3/13/2013	1.4	NA	2	0.27 U	0.0230	0.0024	0.0042	0.0024	--
RW-8	6/12/2013	3.1	NA	2.1	0.14	0.0250	0.0032	0.0120	0.0037	--
RW-8	9/24/2013	1.8	NA	1.6	0.24 U	0.0240	0.0023	0.0018	0.0020	--
RW-8	12/3/2013	1.5	NA	0.87	0.24 U	0.0190	0.0021	0.0026	0.0026	--
RW-8	3/4/2014	2.0	NA	2.1	0.42	0.015	0.0016	0.0030	0.0028	--
RW-8	6/12/2014	2.0 J	NA	2.1	0.50	0.0076	0.0012	0.0035	0.0020	--
RW-8	9/25/2014	1.4 J	NA	1.7	0.78	0.018	0.0014	0.0011	0.0020 U	--
RW-8	12/16/2014	1.8 J	NA	2.5	0.76	0.022	0.0021	0.0030	0.0030	--
RW-8	3/24/2015	1.8	NA	2.3	0.70	0.0088	0.0020 U	0.0032	0.0030 U	--
RW-8	6/17/2015	1.5 J	NA	5.3	1.4	0.012	0.0020 U	0.0080	0.0032	--
RW-8	9/24/2015	2.6 J	NA	2.4	0.25 U	0.015	0.0020 U	0.0037	0.0030 U	--
RW-8	12/21/2015	1.3	NA	2.2	0.41	0.020	0.0018	0.0016	0.0036 U	--
RW-8	3/21/2016	0.933	NA	1.67	0.441	0.0056	0.0050 U	0.0050 U	0.010 U	--
RW-8	6/21/2016	0.831 J	NA	1.03	0.197 J	0.0076 J	0.0050 U	0.0050 U	0.010 U	--
RW-8	9/22/2016	0.633	NA	1.97	0.325	0.0109	0.0011	0.0014	0.0025 J	--
RW-8	12/6/2016	1.200	NA	2.3	0.34	0.011	0.00096 J	0.0011	0.0024 J	--
RW-8	3/20/2017	1.500	NA	2.5	0.35 J	0.0088	0.0010	0.0027	0.0026 J	--
RW-8	6/21/2017	1.20	NA	1.8	0.33 J	0.0062	0.00084 J	0.0058	0.0025 J	--
RW-8	9/20/2017	1.60	NA	2.9	0.46	0.0090	0.0011	0.0033	0.0028 J	--
RW-8	12/11/2017	1.7	NA	2.8	0.48	0.0057	0.00080 J	0.0013	0.0019 J	--
RW-8	3/20/2018	1.2	NA	2.0	0.32 J	0.0034	0.00049 J	0.00089 J	0.0012 J	--
RW-8	6/18/2018	1.2	NA	1.8	0.23 J	0.0063	0.00084 J	0.0012	0.0016 J	--
RW-8	9/20/2018	0.5	NA	2.9	1.2	0.0024	0.0010 U	0.0010 U	0.0018 J	--
RW-8	12/10/2018	0.78	NA	3.6	0.91	0.010	0.0010	0.00071 J	0.0027 J	--
RW-8	3/12/2019	0.63	NA	3.0	1.2	0.0035	0.00056 J	0.00033 J	0.0013 J	--
RW-8	6/18/2019	0.82	NA	3.3	1.1	0.0050	0.00070 J	0.00057 J	0.0014 J	--
RW-8	9/10/2019	0.810 J	NA	1.3	0.14 J	0.0044	0.00051 U	0.00089 J	0.0012 U	--
RW-8	12/10/2019	0.680	NA	3.5	0.54	0.0079	0.00086 J	0.00036 J	0.0026 J	--
RW-8	3/23/2020	0.440	NA	2.6	0.49	0.00072	0.00031 U	0.00035 J	0.00044 U	--
RW-8	6/23/2020	0.870	NA	1.8	0.40 J	0.0012	0.00031 U	0.00063 J	0.00044 U	--
RW-8	9/22/2020	0.450	NA	1.5	0.36 J	0.0013	0.00031 U	0.00026 J	0.00044 U	--
RW-8	12/15/2020	0.19	NA	0.83	0.23 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	3/29/2021	0.16	NA	1.0	0.40 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	6/23/2021	0.39	NA	1.3	0.28 J	0.0013	0.00031 U	0.00022 J	0.00044 U	--
RW-8	9/14/2021	0.59	NA	1.8	0.28 J	0.0033	0.00044 J	0.00045 J	0.00085 J	--
RW-8	12/6/2021	0.13 J	NA	2.1	1.2	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	2/8/2022	0.13 J	NA	0.61	0.17 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	5/3/2022	0.12 J	NA	0.75	0.45	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	8/2/2022	0.230	NA	0.81	0.24 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	4/11/2023	0.031 U	NA	0.45	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-8	10/4/2023	0.15 U	NA	1.1	0.42 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RW-12	12/20/2006	0.0626	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	2/7/2007	0.0693 J	NA	0.289	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	5/8/2007	0.106	NA	2.39	1.07	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	8/1/2007	0.132	NA	2.29	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	11/6/2007	0.05 U	NA	1.03	0.874	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	2/13/2008	0.11	NA	1.9	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	5/5/2008	0.05 U	NA	0.584	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	8/14/2008	0.0905	NA	2.93	0.556 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	11/13/2008	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--
RW-12	2/27/2009	0.0575	NA	0.414	0.476 U	0.0005 U	0.0005 U	0.00494	0.00492	--
RW-12	5/12/2009	0.0655	NA	0.654	0.472 U	0.0005 U	0.0005 U	0.531	0.0787	--
RW-12	8/12/2009	0.21	NA	0.250	1.6	0.001 U	0.001 U	0.0098	0.0068	--

Table 2
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Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
RW-12	11/11/2009	0.096	NA	0.160	0.240 U	0.001 U	0.001 U	0.0018	0.001 U	--	--
RW-12	6/8/2010	0.050 U	NA	0.470	0.320	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RW-12	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RW-12	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
T-3	12/19/2006	2.31 J	NA	0.404	0.495 U	0.00476	0.0025 U	0.094	0.0518	--	--
T-3	2/7/2007	1.9 J	NA	0.322	0.476 U	0.00734 J	0.00177 J	0.0372 J	0.0211 J	--	--
T-3	5/9/2007	2.54 J	NA	4.38	0.623	0.0212 J	0.0025 U	0.0748 J	0.0185 J	--	--
T-3	8/2/2007	2.81	NA	0.612	0.476 U	0.0206	0.005 U	0.112	0.0714	--	--
T-3	11/7/2007	1.96 J	NA	0.468	0.472 U	0.00701 J	0.000591 J	0.0564 J	0.0135 J	--	--
T-3	2/14/2008	2.14	NA	0.432	0.472 U	0.00727	0.00149	0.059	0.019	--	--
T-3	5/5/2008	1.92	NA	0.41	0.472 U	0.0101	0.00235	0.0212	0.009	--	--
T-3	8/15/2008	1.3	NA	0.555	0.472 U	0.00489	0.000662	0.0138	0.00444	--	--
T-3	11/12/2008	1.36	NA	0.298	0.476 U	0.00454	0.000987	0.0147	0.0061	--	--
T-3	2/25/2009	1.89 J	NA	0.354	0.476 U	0.0455	0.0025 U	0.151	0.0348	--	--
T-3	5/13/2009	4.01 J	NA	0.556	0.476 U	0.07 J	0.00193 J	0.531 J	0.0787 J	--	--
T-3	8/13/2009	5.1	NA	1.5	0.25 U	0.045	0.0033	0.200	0.002 U	--	--
T-3	11/12/2009	1.6	NA	0.57	0.24 U	0.0039	0.001 U	0.031	0.001 U	--	--
T-3	3/24/2010	5.1	NA	1.4	0.24 U	0.042	0.0021	0.890	0.0505	--	--
T-3	6/8/2010	6	NA	2.8	1.6	0.054	0.0026	0.660	0.0012	--	--
T-3	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	--	--
T-3	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	--	--
T-3	6/14/2011	3.2	5	1.3	0.25 U	0.013	0.0011	0.098	0.002 U	--	--
T-3	10/6/2011	0.183	5.6 U	0.727	0.49 U	0.00816	0.0005 U	0.0117	0.001 U	--	--
T-3	12/7/2011	0.52	5.2 U	0.32	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
T-3	4/2/2012	0.28	5.3 U	0.57	0.34	0.001 U	0.001 U	0.001 U	0.002 U	--	--
T-3	6/13/2012	0.72 J	NA	0.58 J	0.24 UJ	0.001 J	0.001 UJ	0.001 UJ	0.002 UJ	--	--
T-3	9/11/2012	0.33	NA	0.37	1	0.00021 J	0.001 U	0.00028 J	0.002 U	--	--
T-3	12/12/2012	0.062	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
T-3	3/13/2013	0.57	NA	0.41	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
T-3	6/11/2013	0.7	NA	0.4	0.049 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
T-3	9/24/2013	0.8	NA	0.41	0.24 U	0.001 U	0.001 U	0.0016	0.002 U	--	--
T-3	12/2/2013	1.6	NA	0.49	0.24 U	0.001 U	0.001 U	0.0017	0.002 U	--	--
T-3	3/5/2014	0.42	NA	0.28	0.24 U	0.0010 U	0.0010 U	0.0012	0.0020 U	--	--
T-3	6/12/2014	1.2 J	NA	1.2	0.42	0.0028	0.0010 U	0.0013	0.0020 U	--	--
T-3	9/24/2014	1.2 J	NA	0.56	0.24 U	0.0010 U	0.0013	0.0010 U	0.0020 U	--	--
T-3	12/16/2014	0.65 J	NA	0.49	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
T-3	3/23/2015	1.2	NA	0.86	0.28	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
T-3	6/17/2015	0.27	NA	0.28	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
T-3	9/21/2015	0.25	NA	0.15	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
T-3	12/21/2015	0.51	NA	0.47	0.38 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--
T-3	3/21/2016	0.471	NA	0.641	0.213	0.0016 J	0.0050 U	0.0050 U	0.010 U	--	--
T-3	6/21/2016	0.414 J	NA	0.270	0.0752 J	0.0044 J	0.0050 U	0.0050 U	0.010 U	--	--
T-3	9/19/2016	0.482	NA	0.267	0.0376 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	--
T-3	12/7/2016	0.610	NA	0.43 B	0.10 JB	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--
T-3	3/20/2017	0.390	NA	0.61	0.17 J	0.00023 J	0.0010 U	0.0010 U	0.0030 U	--	--
T-3	6/20/2017	1.10	NA	1.3 J	0.32 J	0.032	0.00048 J	0.00056 J	0.00080 J	--	--
T-3	9/19/2017	1.7	NA	1.2	0.16 J	0.023	0.00037 J	0.00078 J	0.00076 J	--	--
T-3	3/20/2018	1.0	NA	1.1	0.25 J	0.0023	0.0010 U	0.00026 J	0.0030 U	--	--
T-3	9/20/2018	0.89	NA	0.73	0.18 J	0.00012 J	0.0010 U	0.00028 J	0.0010 J	--	--
T-3	3/12/2019	0.470	NA	0.61	0.38 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
T-3	9/10/2019	0.380 J	NA	0.43	0.14 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	--
T-3	3/23/2020	0.750	NA	0.77	0.28 J	0.00011 J	0.00031 U	0.00020 U	0.00044 U	--	--
T-3	9/12/2020	0.840	NA	0.75	0.13 U	0.0040	0.00031 U	0.0014	0.00074 J	--	--
T-3	3/29/2021	1.1	NA	0.71	0.41 U	0.0011	0.00042 J	0.0027	0.00044 U	--	--
T-3	9/14/2021	0.81	NA	0.40	0.12 U	0.00023 J	0.00031 U	0.00033 J	0.00044 U	--	--
T-3	2/8/2022	0.45	NA	0.36	0.12 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
T-3	8/2/2022	0.310	NA	0.24	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
T-3	4/11/2023	0.100 J	NA	0.19 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
T-3	10/3/2023	0.15 U	NA	0.43	0.32 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
Upper Sand Unit - Sentinel											
E-22	6/14/2011	2.1	4.8 U	1.4	0.25 U	0.0071	0.0017	0.092	0.0026	--	--
E-22	10/3/2011	0.206	5.5 U	0.223	0.485 U	0.00104	0.001 U	0.001 U	0.002 U	--	--
E-22	12/7/2011	0.82	4.8 U	1.1	0.24 U	0.0035	0.001 U	0.001 U	0.002 U	--	--
E-22	4/2/2012	0.41	5.4 U	1.2	0.35	0.0015	0.001 U	0.001 U	0.002 U	--	--
E-22	9/11/2012	0.2	NA	0.5	0.067 J	0.00088 J	0.00021 J	0.00035 J	0.002 U	--	--
E-22	12/11/2012	0.19	NA	0.36	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
E-22	3/13/2013	0.18	NA	0.46	0.24 U	0.001	0.001 U	0.0029	0.002 U	--	--
E-22	6/10/2013	0.22	NA	0.31	0.049 U	0.0017	0.001 U	0.0074	0.002 U	--	--
E-22	9/24/2013	0.25	NA	0.28	0.24 U	0.001 U	0.001 U	0.0022	0.002 U	--	--
E-22	12/2/2013	0.11	NA	0.12 U	0.24 U	0.0014	0.001 U	0.001 U	0.002 U	--	--

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D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15			0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15			0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08		--	--	--	--
E-22	3/4/2014	0.081	NA	0.36	0.24 U	0.0017	0.0010 U	0.0010 U	0.0020 U	--	--
E-22	6/10/2014	0.32	NA	0.68	0.25 U	0.0024	0.0010 U	0.010	0.0020 U	--	--
E-22	9/22/2014	0.44	NA	0.77	0.24 U	0.0010 U	0.0010 U	0.0056	0.0020 U	--	--
E-22	12/17/2014	0.17	NA	1.2	0.24	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
E-22	3/25/2015	0.15	NA	2.8	0.56	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
E-22	6/16/2015	0.21	NA	0.68	0.25 U	0.0020 U	0.0020 U	0.0051	0.0030 U	--	--
E-22	9/22/2015	0.14	NA	0.43	0.25 U	-- R	-- R	-- R	-- R	--	--
E-22	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
E-22	12/21/2015	0.10 U	NA	1.6	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--
E-22	3/23/2016	0.0714 J	NA	0.793	0.106 J	0.00025 J	0.0010 U	0.00069 J	0.0020 U	--	--
E-22	6/21/2016	0.260	NA	0.637	0.0885 U	0.0012	0.00021 J	0.0075	0.00052 J	--	--
E-22	9/21/2016	0.386	NA	0.753	0.0644 J	0.0015	0.00030 J	0.0039	0.00058 J	--	--
E-22	12/6/2016	0.200	NA	2.6	0.25	0.0019	0.0010 U	0.0028	0.0030 U	--	--
E-22	3/20/2017	0.150 U	NA	1.4	0.25 J	0.00026 J	0.0010 U	0.0010 U	0.0030 U	--	--
E-22	6/20/2017	0.170	NA	1.6 J	0.18 J	0.00072	0.00058 J	0.0033	0.0030 U	--	--
E-22	9/25/2017	0.440	NA	1.0	0.25 J	0.00033 J	0.0010 U	0.00051 J	0.0030 U	--	--
E-22	12/13/2017	0.220	NA	4.0	0.28 J	0.0012	0.0010 U	0.0057	0.0008 J	--	--
E-22	3/19/2018	0.15 U	NA	1.5	0.20 J	0.00049	0.0010 J	0.00026 J	0.00049 J	--	--
E-22	6/19/2018	0.15 U	NA	1.0	0.14 J	0.00024 J	0.0010 U	0.0010 U	0.0030 U	--	--
E-22	9/19/2018	0.15 U	NA	3.6	0.73	0.00030 J	0.0010 U	0.0010 U	0.0030 U	--	--
E-22	12/11/2018	0.096 J	NA	3.2	0.56	0.00035 J	0.00031 U	0.00045 J	0.00044 J	--	--
E-22	3/13/2019	0.070 U	NA	2.2	0.34 J	0.00053	0.00031 U	0.00020 U	0.00044 U	--	--
E-22	6/17/2019	0.076 J	NA	2.0	0.27 J	0.00045	0.00045 J	0.0025	0.00055 J	--	--
E-22	9/10/2019	0.190	NA	0.11 U	0.12 U	0.00061 J	0.00032 J	0.0029	0.00096 J	--	--
E-22	12/10/2019	0.070 U	NA	0.63	0.13 J	0.00042	0.00031 U	0.0002 U	0.00044 U	--	--
E-22	3/23/2020	0.140 J	NA	1.2	0.14 J	0.00054	0.00031 U	0.00020 U	0.00044 U	--	--
E-22	6/23/2020	0.100 J	NA	0.66	0.76	0.00088	0.00031 U	0.0012	0.00060 J	--	--
E-22	9/22/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.0002 U	0.00044 U	--	--
E-22	12/15/2020	0.110 J	NA	0.28	0.12 U	0.00025 J	0.00031 U	0.0250	0.00044 U	--	--
E-22	3/29/2021	1.3	NA	0.56	0.41 U	0.0026	0.0017	0.22	0.032	--	--
E-22	6/22/2021	0.36	NA	0.35	0.12 U	0.0014	0.0011	0.076	0.011	--	--
E-22	9/13/2021	1.3	NA	0.32	0.12 U	0.0017	0.00031 U	0.00082 J	0.00046 J	--	--
E-22	12/6/2021	0.070 U	NA	3.4	0.88	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
E-22	2/8/2022	0.070 U	NA	0.40	0.13 U	0.00021 J	0.00031 U	0.00020 U	0.00044 U	--	--
E-22	5/3/2022	0.30	NA	0.55	0.29 J	0.0021	0.00033 J	0.0022	0.00044 U	--	--
E-22	8/1/2022	0.29	NA	0.35	0.13 U	0.0022	0.00031 U	0.0011	0.00044 U	--	--
E-22	4/11/2023	0.038 J	NA	0.37	0.12 U	0.0014	0.00031 U	0.00020 U	0.00044 U	--	--
E-22	10/4/2023	0.15 U	NA	0.41	0.46 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
FW-3	2/7/2007	0.280	4.81 U	0.243 U	0.485 U	0.000912	0.00120	0.00138	0.001 U	--	--
FW-3	5/8/2007	0.0456	4.81 U	0.317	0.476 U	0.00069	0.0014	0.00114	0.00182	--	--
FW-3	7/31/2007	0.358	4.85 U	0.743	0.532 U	0.00103	0.00125	0.0005 U	0.00137	--	--
FW-3	11/7/2007	0.388	4.76 U	0.254	0.490 U	0.00161	0.00071	0.00104	0.00184	--	--
FW-3	2/13/2008	0.187	4.72 U	0.236 U	0.472 U	0.000635	0.0005 U	0.0005 U	0.001 U	--	--
FW-3	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-3	8/14/2008	0.275	5.21 U	0.236 U	0.472 U	0.000864	0.000783	0.0005 U	0.00107	--	--
FW-3	11/13/2008	0.0776	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
FW-3	2/25/2009	0.135	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--
FW-3	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-3	8/11/2009	0.28	5.00 U	0.36	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	11/13/2009	0.096	5.00 U	0.2	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--	--
FW-3	3/23/2010	0.12	5.00 U	0.43	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	6/8/2010	0.37	6.00	2.6	0.44	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	9/14/2010	0.12	5.00 U	0.33	1	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	12/15/2010	0.12	5.00	0.33	1	0.001	0.001	0.001	0.002	--	--
FW-3	9/27/2011	0.055	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	9/10/2012	0.18	NA	0.31	0.74	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	9/25/2013	0.41	NA	0.20	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
FW-3	9/24/2014	0.050 U	NA	0.26	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
FW-3	9/22/2015	0.15	NA	0.31	0.25 U	-- R	-- R	-- R	-- R	--	--
FW-3	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
FW-3	9/21/2016	0.10 U	NA	0.134	0.0338 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	--
FW-3	9/18/2017	0.110 J	NA	0.26	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
FW-3	9/19/2018	0.100 J	NA	0.55	0.45 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
FW-3	9/9/2019	0.120	NA	0.27 J	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	--
FW-3	9/22/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
FW-3	9/14/2021	0.070 U	NA	0.18 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
FW-3	8/2/2022	0.031 U	NA	0.16 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
FW-3	10/4/2023	0.15 U	NA	0.23 J	0.46 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
FW-4	12/19/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-4	2/7/2007	0.05 U	4.85 U	0.776	0.490 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	--
FW-4	5/8/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)									Naphthalene
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a		
Site-Specific Groundwater Cleanup Level:		15			0.16		20	1.7	--	--	
Site-Specific Surface Water Cleanup Level:		15			0.04		5	0.43	--	--	
Site-Specific Contingency Trigger Level:		--			0.08		--	--	--	--	
FW-4	7/31/2007	0.05 U	4.85 U	0.914	0.495 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
FW-4	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-4	2/13/2008	0.05 U	4.76 U	0.271	0.476 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
FW-4	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-4	8/13/2008	0.05 U	5.21 U	0.526	0.472 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
FW-4	11/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-4	2/27/2009	0.05 U	5.00 U	0.883	0.5 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
FW-4	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-4	8/11/2009	0.13	5.00 U	1.6	0.24 U	0.017	0.001 U	0.001 U	0.002 U	--	
FW-4	3/23/2010	0.05 U	5.00 U	0.66	0.31	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-4	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-4	9/14/2010	0.077	5.50 U	3.4	0.62	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-4	9/29/2011	0.16 UJ	4.80 UJ	0.77 J	0.25 UJ	0.0004 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	
FW-4	9/10/2012	0.048 J	NA	0.23	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-4	9/25/2013	0.055	NA	0.24	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-4	9/24/2014	0.050 U	NA	0.84	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
FW-4	9/22/2015	0.050 U	NA	0.43	0.25 U	-- R	-- R	-- R	-- R	--	
FW-4	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
FW-4	9/21/2016	0.10 U	NA	0.648	0.146	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.00095 U	
FW-4	9/20/2017	0.150 U	NA	0.79	0.18 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000048 J	
FW-4	9/19/2018	0.150 U	NA	0.75	0.2 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.0010 U	
FW-4	9/9/2019	0.048 U	NA	0.36 J	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	0.000051 U	
FW-4	9/22/2020	0.070 U	NA	0.46	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 U	
FW-4	9/14/2021	0.070 U	NA	0.41	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000062 U	
FW-4	8/3/2022	0.036 J	NA	0.69	0.22 J	0.000093 UJ	0.00031 UJ	0.00020 UJ	0.00044 UJ	0.000055 U	
FW-4	10/4/2023	0.15 U	NA	0.54	0.44 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000051 U	
FW-5R	9/27/2011	0.16	5.30 U	4.3	0.25 U	0.0031	0.001 U	0.001 U	0.002 U	--	
FW-5R	12/8/2011	1.5	5.30 U	3.7	0.26 U	0.021	0.001 U	0.0012	0.002 U	--	
FW-5R	4/4/2012	1.2	5.30 U	6.3	1.3	0.015	0.001 U	0.001 U	0.002 U	--	
FW-5R	6/13/2012	1.2 J	NA	6.8 J	0.6 J	0.016 J	0.001 UJ	0.001 UJ	0.002 UJ	--	
FW-5R	9/11/2012	1.5	NA	3.1	0.09 J	0.021	0.00055 J	0.0011	0.002 U	--	
FW-5R	12/13/2012	1.1	NA	3.8	0.24 U	0.012	0.001 U	0.001 U	0.002 U	--	
FW-5R	3/12/2013	0.97	NA	4.4	0.26 U	0.016	0.001 U	0.001 U	0.002 U	--	
FW-5R	6/12/2013	2.4	NA	5.6	0.14	0.014	0.001 U	0.0011	0.002 U	--	
FW-5R	9/25/2013	3.1	NA	4.6	0.24 U	0.0095	0.001 U	0.001 U	0.002 U	--	
FW-5R	12/4/2013	2.6	NA	3.1	0.24	0.01	0.001 U	0.001	0.002 U	--	
FW-5R	3/6/2014	3.7	NA	2.8	0.24 U	0.0071	0.0050 U	0.0050 U	0.0050 U	--	
FW-5R	6/9/2014	2.7	NA	5.4	0.43	0.012	0.0010 U	0.0010 U	0.0020 U	--	
FW-5R	9/24/2014	1.1	NA	5.9	0.76	0.0064	0.0010 U	0.0010 U	0.0020 U	--	
FW-5R	12/15/2014	1.2	NA	3.3	0.38	0.0028	0.0010 U	0.0010 U	0.0020 U	--	
FW-5R	3/24/2015	3.2	NA	4.6	0.67	0.0053	0.0020 U	0.0030 U	0.0030 U	--	
FW-5R	6/15/2015	3.4 J	NA	3.5	0.43	0.0060 J	0.0020 UJ	0.0030 UJ	0.0030 UJ	--	
FW-5R	9/22/2015	1.6	NA	3.5 J	0.26	-- R	-- R	-- R	-- R	--	
FW-5R	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
FW-5R	12/22/2015	0.54	NA	3.0	0.39 U	0.0027	0.0010 U	0.0010 U	0.0030 U	--	
FW-5R	3/21/2016	0.467	NA	4.61	0.95 U	0.0090	0.00032 J	0.00037 J	0.0020 U	--	
FW-5R	6/22/2016	0.587 J	NA	3.55	0.173 J	0.0089 J	0.010 U	0.010 U	0.020 U	0.0011	
FW-5R	9/21/2016	0.629	NA	4.23	0.194 J	0.0027	0.00041 J	0.00060 J	0.0030 U	0.00054 J	
FW-5R	12/8/2016	0.720	NA	5.1 B	0.34 B	0.0047	0.00042 J	0.00058 J	0.0030 U	0.0012 J	
FW-5R	3/21/2017	0.750	NA	5.5	0.36 J	0.0053	0.00048 J	0.00069 J	0.0030 U	0.0016	
FW-5R	6/22/2017	0.800	NA	6.0	0.40 J	0.0043	0.00051 J	0.00056 J	0.0030 U	0.0020 U	
FW-5R	9/18/2017	1.0	NA	4.3	0.19 J	0.0015	0.00050 J	0.00063 J	0.00053 J	0.0018	
FW-5R	12/12/2017	0.720	NA	5.2	0.33 J	0.0018	0.00034 J	0.00036 J	0.0030 U	0.0015	
FW-5R	3/19/2018	1.0	NA	5.5	0.34 J	0.0023	0.00045 J	0.00046 J	0.0030 U	0.0013 J	
FW-5R	6/18/2018	0.57	NA	4.4	0.28 J	0.0012	0.00038 J	0.00042 J	0.0030 U	0.0011	
FW-5R	9/19/2018	0.68	NA	5.0	0.52	0.00077	0.00034 J	0.00033 J	0.0030 U	0.0010	
FW-5R	12/11/2018	0.59	NA	7.0	1.1	0.00081	0.00040 J	0.00052 J	0.00044 U	0.0010	
FW-5R	3/12/2019	0.79	NA	6.3	0.99	0.00069	0.00049 J	0.00034 J	0.00044 U	0.0019 H	
FW-5R	6/18/2019	0.82	NA	7.0	0.95	0.00081	0.00050 J	0.00040 J	0.00044 U	0.0023	
FW-5R	9/9/2019	0.64	NA	4.3	0.24 J	0.00045 J	0.00035 J	0.00029 J	0.00031 U	0.0050 U	
FW-5R	12/10/2019	0.79	NA	4.9	0.39 J	0.00067	0.00038 U	0.00033 J	0.00044 U	0.0012	
FW-5R	3/24/2020	0.77	NA	4.9	0.27 J	0.00052	0.00041 J	0.00032 J	0.00044 U	0.0012	
FW-5R	6/24/2020	1.10 J	NA	3.8	0.15 U	0.00056	0.00031 U	0.00041 J	0.00044 U	0.0012	
FW-5R	9/21/2020	0.98	NA	4.7	0.27 J	0.00084	0.00042 J	0.00037 J	0.00044 U	0.0016	
FW-5R	12/14/2020	0.96	NA	4.8	0.30 J	0.00052	0.00042 J	0.00034 J	0.00044 U	0.0019	
FW-5R	3/30/2021	0.59	NA	3.5	0.30 J	0.000093 U	0.00034 J	0.00020 U	0.00044 U	0.0021	
FW-5R	6/23/2021	0.58	NA	3.2	0.13 U	0.00038 J	0.00031 U	0.00020 J	0.00044 U	0.0015	
FW-5R	9/14/2021	0.61	NA	3.6	0.14 U	0.00049	0.00033 J	0.00020 J	0.00044 U	0.0015	
FW-5R	12/7/2021	0.87	NA	6.0	0.77	0.00051	0.00040 J	0.00029 J	0.00044 U	0.000061 U	
FW-5R	2/9/2022	1.6	NA	3.1	0.22 J	0.00011 J	0.00031 U	0.00099 J	0.00044 U	0.0017	

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D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH		B	T	E	
Site-Specific Groundwater Cleanup Level:			15			0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15			0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08		--	--	--	--
FW-5R	5/4/2022	1.1	NA	5.1	0.67	0.00040	0.00037 J	0.00020 U	0.00044 U	0.0013	
FW-5R	8/3/2022	0.870 J	NA	4.6	0.27 J	0.00047 J	0.00033 J	0.00027 J	0.00044 UJ	0.0020	
FW-5R	4/12/2023	0.600	NA	3.2	0.14 U	0.00044	0.00035 J	0.00026 J	0.00044 U	0.0012	
FW-5R	10/4/2023	0.15 U	NA	5.7	0.82 J	0.000093 U	0.00038 J	0.00033 J	0.00044 U	0.0016	
FW-14	9/16/2010	0.05 U	5.10 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	12/17/2010	0.05 U	4.90 U	0.13 U	0.27	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	3/9/2011	0.05 U	5.40 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	6/13/2011	0.05 U	4.80 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	9/30/2011	0.08 U	5.00 U	0.1 U	0.5 U	0.0004 U	0.001 U	0.001 U	0.002 U	--	
FW-14	12/6/2011	0.05 U	4.90 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	4/3/2012	0.05 U	4.90 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	6/13/2012	0.05 UJ	NA	0.12 UJ	0.24 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	
FW-14	9/10/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	12/11/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	3/12/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	6/12/2013	0.05 U	NA	0.041	0.052	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	9/25/2013	0.058	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
FW-14	3/6/2014	0.050 U	NA	0.12 U	0.24 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	--	
FW-14	6/9/2014	0.26	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
FW-14	9/23/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
FW-14	12/15/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
FW-14	3/25/2015	0.097	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
FW-14	6/15/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
FW-14	9/23/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
FW-14	12/22/2015	0.10 U	NA	0.24 U	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
FW-14	3/23/2016	0.100 U	NA	0.094 U	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
FW-14	6/22/2016	0.100 U	NA	0.0623 J	0.0942 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	0.000015 U	
FW-14	9/20/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.00095 U	
FW-14	12/8/2016	0.100 U	NA	0.060 J B	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U	
FW-14	3/21/2017	0.150 U	NA	0.10 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000084 U	
FW-14	6/21/2017	0.150 U	NA	0.32 U	0.54 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U	
FW-14	9/19/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000082 U	
FW-14	12/12/2017	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000098 U	
FW-14	3/20/2018	0.150 U	NA	0.23 U	0.38 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000038 UJ	
FW-14	6/19/2018	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000093 U	
FW-14	9/18/2018	0.150 U	NA	0.12 J	0.14 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000099 U	
FW-14	12/11/2018	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000054 U	
FW-14	3/13/2019	0.070 U	NA	0.11 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 U	
FW-14	6/18/2019	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 U	
FW-14	9/11/2019	0.048 U	NA	0.23 U	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	0.000050 U	
FW-14	12/10/2019	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.00031 U	0.00020 U	0.00016 U	0.000054 U	
FW-14	3/24/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000054 U	
FW-14	6/24/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000058 U	
FW-14	9/23/2020	0.070 U	NA	0.13 U	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000076 J	
FW-14	12/14/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000049 U	
FW-14	3/30/2021	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000057 U	
FW-14	6/22/2021	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000064 U	
FW-14	9/14/2021	0.070 U	NA	0.099 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000062 U	
FW-14	12/6/2021	0.070 U	NA	0.11 U	0.13 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000060 U	
FW-14	2/8/2022	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000053 U	
FW-14	5/3/2022	0.031 U	NA	0.11 U	0.12 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000061 J	
FW-14	8/2/2022	0.031 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000052 U	
FW-14	4/11/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 U	
FW-14	10/3/2023	0.15 U	NA	0.15 J	0.12 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000051 U	
FW-16	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-16	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-16	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-16	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-16	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
T-2	12/20/2010	0.05 U	4.8 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
T-2	6/14/2011	1	5.1 U	0.49	0.24 U	0.001 U	0.001 U	0.0019	0.002 U	--	
T-2	10/5/2011	0.357	5.1 U	0.196	0.5 U	0.0004 U	0.001 U	0.001 U	0.002 U	--	
T-2	12/5/2011	0.46	5 U	0.25	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
T-2	4/4/2012	0.78	5.4 U	0.45	0.24	0.001 U	0.001 U	0.001 U	0.002 U	--	
T-2	6/13/2012	0.91 J	NA	0.43 J	0.24 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	
T-2	9/12/2012	1.1	NA	0.61	0.8	0.0003 J	0.00018 J	0.00042 J	0.002 U	--	
T-2	12/13/2012	0.12	NA	0.13	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
T-2	3/12/2013	0.62	NA	0.24	0.34	0.001 U	0.001 U	0.001 U	0.002 U	--	
T-2	6/10/2013	0.73	NA	0.41	0.21	0.001 U	0.001 U	0.0025	0.002 U	--	
T-2	9/24/2013	0.66	NA	0.25	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								Naphthalene
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:		15			0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15			0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:		--			0.08		--	--	--	--
T-2	12/3/2013	0.21	NA	0.12	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--
T-2	3/4/2014	0.47	NA	0.30	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
T-2	6/10/2014	1.0 J	NA	0.48	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
T-2	9/22/2014	0.44	NA	0.41	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
T-2	12/16/2014	0.28	NA	0.22	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
T-2	3/26/2015	0.25	NA	0.13	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
T-2	6/16/2015	0.38	NA	0.31	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
T-2	9/21/2015	0.61	NA	0.26	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
T-2	12/22/2015	0.21	NA	0.33	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	3/21/2016	0.0752 J	NA	0.059 J	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
T-2	6/21/2016	0.581 J	NA	0.184	0.0369 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
T-2	9/21/2016	0.588	NA	0.238	0.0362 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	12/7/2016	0.160	NA	0.17	0.063 J	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	3/21/2017	0.110 J	NA	0.13 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	6/21/2017	0.250 J	NA	0.21 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	9/25/2017	0.130 J	NA	0.17 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	12/11/2017	0.140 J	NA	0.20 J	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	3/20/2018	0.130 J	NA	0.28	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	6/18/2018	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	9/17/2018	0.210	NA	0.18 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
T-2	12/11/2018	0.070 U	NA	0.16 J	0.16 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	3/12/2019	0.070 U	NA	0.22	0.17 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	6/17/2019	0.099 J	NA	0.22 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	9/11/2019	0.12	NA	0.21 J	0.14 U	0.00014 J	0.00013 U	0.00014 U	0.00031 U	--
T-2	12/10/2019	0.070 U	NA	0.24 J	0.13 U	0.00009 U	0.00031 U	0.00020 U	0.00016 U	--
T-2	3/24/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	6/23/2020	0.14 J	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	9/22/2020	0.11 J	NA	0.13 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	12/14/2020	0.14 J	NA	0.19 J	0.17 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	3/29/2021	0.070 U	NA	0.16 J	0.43 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	6/22/2021	0.29	NA	0.17 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	9/13/2021	0.079 J	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	12/6/2021	0.070 U	NA	0.21 J	0.28 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	2/8/2022	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	5/3/2022	0.54	NA	0.26	0.21 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	8/2/2022	0.110 J	NA	0.19 J	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	4/11/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
T-2	10/5/2023	0.15 U	NA	0.16 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
Upper Sand Unit - Surface Water Compliance										
FW-15	12/20/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	2/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	5/8/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	8/1/2007	0.05 U	4.95 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--
FW-15	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	8/13/2008	0.05 U	5.21 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--
FW-15	11/10/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	8/13/2009	0.07	5.00 U	0.120 U	0.240 U	0.0018	0.001 U	0.001 U	-0.998 U	--
FW-15	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	9/16/2010	0.05 U	4.70 U	NS	NS	0.001 U	0.001 U	0.001 U	-0.998 U	--
FW-15	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-15	9/30/2011	0.16 U	4.70 U	0.098 U	0.490 U	0.0004 U	0.001 U	0.001 U	0.002 U	--
FW-15	9/10/2012	0.05 U	NA	0.260	2.200	0.001 U	0.001 U	0.001 U	0.002 U	--
FW-15	9/25/2013	0.05 U	NA	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--
FW-15	9/23/2014	0.050 U	NA	0.13	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--
FW-15	9/23/2015	0.050 U	NA	0.11 U	0.26 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--
FW-15	9/20/2016	0.10 U	NA	0.178	0.0884 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--
FW-15	9/25/2017	0.15 U	NA	0.16 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
FW-15	9/20/2018	0.15 U	NA	0.41	0.45	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
FW-15	9/11/2019	0.048 U	NA	0.23 U	0.12 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--
FW-15	9/12/2020	0.070 U	NA	0.19 J	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-15	9/14/2021	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-15	8/2/2022	0.031 U	NA	0.12 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-15	10/3/2023	0.031 U	NA	0.31	0.23 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
RR-1	12/19/2006	0.0644	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.00005 U	0.001 U	--
RR-1	2/7/2007	0.0607	NA	0.245 U	0.490 U	0.0005 U	0.0005 U	0.00005 U	0.001 U	--
RR-1	5/8/2007	0.241	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.00005 U	0.001 U	--
RR-1	8/1/2007	0.198	5.00 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.00005 U	0.001 U	--

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D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene		
			TPH-G	TPH-O&G	TPH-D	TPH	B	T	E	X ^a			
Site-Specific Groundwater Cleanup Level:			15			0.16		20		1.7		--	--
Site-Specific Surface Water Cleanup Level:			15			0.04		5		0.43		--	--
Site-Specific Contingency Trigger Level:			--			0.08		--		--		--	--
RR-1	11/7/2007	0.152	4.85 U	0.250 U	0.500 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	2/13/2008	0.05 U	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	5/5/2008	0.0869	4.72 U	0.236 U	NS	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	8/13/2008	0.0558	5.21 U	0.245 U	0.490 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	11/13/2008	0.05 U	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	2/25/2009	0.05 U	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	5/12/2009	0.167	4.76 U	0.238 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	8/13/2009	0.15	5.00 U	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	11/12/2009	0.13	5.00 U	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.001 U	--	--		
RR-1	3/24/2010	0.05 U	5.00 U	0.120 U	0.260	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	6/8/2010	0.052	4.70 U	0.210	2.1	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	9/14/2010	0.05 U	4.70 U	0.150	0.700	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	12/20/2010	0.05 U	4.90 U	0.120 U	0.310	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	3/8/2011	0.05 U	9.00	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	6/14/2011	0.05 U	5.00 U	0.140 U	0.270 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	10/5/2011	0.08 U	5.10 U	0.098 U	0.490 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	12/6/2011	0.05 U	4.80 U	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	4/6/2012	0.05 U	5.00 U	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	6/13/2012	0.05 UJ	NA	0.140 J	0.240 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	--		
RR-1	9/12/2012	0.061	NA	0.088 J	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	12/12/2012	0.05 U	NA	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	3/12/2013	0.14	NA	0.130 U	0.270 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	6/10/2013	0.067	NA	0.100	0.047 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	9/26/2013	0.05 U	NA	0.120 U	0.240 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-1	12/3/2013	0.061	NA	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--		
RR-1	3/3/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--		
RR-1	6/11/2014	0.055	NA	0.17	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--		
RR-1	9/22/2014	0.050 U	NA	0.12	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--		
RR-1	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--		
RR-1	3/23/2015	0.050 U	NA	0.10 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--		
RR-1	6/16/2015	0.050 U	NA	0.14	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--		
RR-1	9/22/2015	0.078	NA	0.12	0.25 U	-- R	-- R	-- R	-- R	--	--		
RR-1	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--		
RR-1	12/23/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	3/21/2016	0.100 U	NA	0.0536 J	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--		
RR-1	6/21/2016	0.164 J	NA	0.124	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--		
RR-1	9/19/2016	0.10 U	NA	0.136	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	12/6/2016	0.100 U	NA	0.071 J	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	3/22/2017	0.150 U	NA	0.10 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	6/21/2017	0.150 U	NA	0.10 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	9/19/2017	0.150 U	NA	0.17 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	12/12/2017	0.150 U	NA	0.11 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	3/20/2018	0.150 U	NA	0.15 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	6/19/2018	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	9/18/2018	0.150 U	NA	0.15 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--		
RR-1	12/11/2018	0.070 U	NA	0.27	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	3/13/2019	0.070 U	NA	0.17 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	6/17/2019	0.070 U	NA	0.22	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	9/9/2019	0.076 J	NA	0.27 U	0.13 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	--		
RR-1	12/10/2019	0.070 U	NA	0.19 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	3/23/2020	0.070 U	NA	0.12 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	6/23/2020	0.077 J	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	9/21/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	12/15/2020	0.097 J	NA	0.14 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	3/29/2021	0.13 J	NA	0.20 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	6/23/2021	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	9/14/2021	0.11 J	NA	0.12 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	12/7/2021	0.070 U	NA	0.10 U	0.13 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	2/8/2022	0.078 J	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	5/3/2022	0.031 U	NA	0.12 U	0.14 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	8/1/2022	0.120 J	NA	0.13 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	4/11/2023	0.031 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--		
RR-1	10/3/2023	1.5 U	NA	0.20 J	0.15 J	0.000930 U	0.00310 U	0.0020 U	0.0044 U	--	--		
RR-2	12/20/2006	0.05 U	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	2/7/2007	0.05 U	NA	0.243 U	0.485 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	5/8/2007	0.05	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	7/31/2007	0.05 U	4.85 U	0.250 U	0.500 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	11/7/2007	0.05 U	4.72 U	0.248 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	2/13/2008	0.05 U	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	5/5/2008	0.05 U	4.72 U	0.236 U	NS	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		
RR-2	8/13/2008	0.05 U	5.21 U	0.245 U	0.49 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	--		

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
RR-2	11/13/2008	0.05 U	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
RR-2	5/12/2009	0.154	4.72 U	0.236 U	0.472 U	0.0005 U	0.000616	0.00164	0.0012	--	
RR-2	8/13/2009	0.11	5.00 U	0.12 U	0.24 U	0.0010 U	0.001 U	0.001 U	0.002 U	--	
RR-2	11/11/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.0010 U	0.001 U	0.001 U	0.001 U	--	
RR-2	3/23/2010	0.29	5.00 U	0.12 U	0.25 U	0.0010 U	0.001 U	0.0029	0.002 U	--	
RR-2	6/8/2010	0.13	4.70 U	0.33	0.24 U	0.0010 U	0.001 U	0.001 U	0.002 U	--	
RR-2	9/14/2010	0.05 U	5.20 U	0.12 U	0.25 U	0.0010 U	0.001 U	0.001 U	0.002 U	--	
RR-2	12/20/2010	0.05 U	4.7 U	0.12 U	0.37	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	3/11/2011	0.11	5.2 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	6/13/2011	0.063	5 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	9/27/2011	0.05 U	5.1 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	12/6/2011	0.05 U	5.2 U	0.13 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	4/4/2012	0.05 U	5.3 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	6/14/2012	0.13	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	9/11/2012	0.05 U	NA	0.12 U	0.1 J	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	12/11/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	3/12/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	6/11/2013	0.05 U	NA	0.024 U	0.048 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	9/25/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-2	3/5/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-2	6/10/2014	0.053	NA	0.14	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-2	9/23/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-2	12/17/2014	0.050 U	NA	0.12	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-2	3/24/2015	0.050 U	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-2	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-2	9/24/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 UJ	0.0020 UJ	0.0030 UJ	0.0030 UJ	--	
RR-2	12/22/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-2	3/21/2016	0.0654 J	NA	0.0882 J	0.20 U	0.0010 U	0.00029 J	0.0025	0.0014 J	--	
RR-2	6/22/2016	0.100 U	NA	0.0818 J	0.0921 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	0.000094 U	
RR-2	9/20/2016	0.10 U	NA	0.0538 J	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.00095 U	
RR-2	12/7/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U	
RR-2	3/21/2017	0.099 J	NA	0.21 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000082 U	
RR-2	6/22/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U	
RR-2	9/19/2017	0.150 U	NA	0.090 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000019 J	
RR-2	12/13/2017	0.085 J	NA	0.14 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000090 U	
RR-2	3/19/2018	0.150 U	NA	0.12 J	0.38 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000038 UJ	
RR-2	6/19/2018	0.150 U	NA	0.25 U	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000093 U	
RR-2	9/19/2018	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000097 U	
RR-2	12/11/2018	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000057 U	
RR-2	3/12/2019	0.070 U	NA	0.15 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 UH	
RR-2	6/18/2019	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000049 U	
RR-2	9/11/2019	0.048 U	NA	0.10 J	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	0.000050 U	
RR-2	12/10/2019	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000054 U	
RR-2	3/24/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000060 U	
RR-2	6/24/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000059 U	
RR-2	9/21/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000082 J	
RR-2	12/14/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000049 U	
RR-2	3/30/2021	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000057 U	
RR-2	6/23/2021	0.070 U	NA	0.11 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000065 U	
RR-2	9/14/2021	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000064 U	
RR-2	12/7/2021	0.070 U	NA	0.12 U	0.13 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000061 U	
RR-2	2/9/2022	0.17	NA	0.13 J	0.11 U	0.000093 U	0.00031 U	0.00060 J	0.00044 U	0.000050 U	
RR-2	5/4/2022	0.088 J	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000060 U	
RR-2	8/2/2022	0.063 J	NA	0.13 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000059 U	
RR-2	4/12/2023	0.031 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000055 U	
RR-2	10/4/2023	0.15 U	NA	0.13 J	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000061 U	
RR-3	12/20/2006	0.05 U	NA	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	2/7/2007	0.05 U	NA	0.243 U	0.485 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	5/8/2007	0.05 U	NA	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	7/31/2007	0.05 U	4.90 U	0.248 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	11/7/2007	0.05 U	4.76 U	0.245 U	0.490 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	2/15/2008	0.05 U	4.95 U	0.248 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	5/5/2008	0.05 U	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	8/13/2008	0.05 U	5.21 U	0.243 U	0.485 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	11/13/2008	0.05 U	4.76 U	0.24 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
RR-3	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
RR-3	5/12/2009	0.05 U	4.76 U	0.238 U	0.476 U	0.000609	0.0005 U	0.0005 U	0.001 U	--	
RR-3	8/13/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-3	11/13/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--	

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WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
RR-3	3/23/2010	0.053	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	6/8/2010	0.05 U	4.80 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	9/14/2010	0.05 U	4.60 U	0.13 U	0.82	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	12/20/2010	0.05 U	5.10 U	0.12 U	0.56	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	3/11/2011	0.05 U	4.90 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	6/13/2011	0.05 U	4.90 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	9/27/2011	0.05 U	4.70 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	12/6/2011	0.05 U	5.30 U	0.13 U	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	4/4/2012	0.05 U	4.70 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	6/14/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	9/11/2012	0.05 U	NA	0.12 U	0.17 J	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	12/11/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	3/12/2013	0.1	NA	0.12 U	0.23 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	6/11/2013	0.05 U	NA	0.024 U	0.048 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	9/25/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-3	3/5/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-3	6/10/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-3	9/23/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-3	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-3	3/24/2015	0.050 U	NA	0.10 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
RR-3	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
RR-3	9/24/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
RR-3	12/22/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-3	3/21/2016	0.100 U	NA	0.095 U	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-3	6/22/2016	0.100 U	NA	0.100 U	0.0828 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	0.000015 U	--
RR-3	9/20/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.00095 U	--
RR-3	12/7/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U	--
RR-3	3/21/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000083 U	--
RR-3	6/22/2017	0.087 J	NA	0.25 U	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U	--
RR-3	9/20/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000045 J	--
RR-3	12/13/2017	--	NA	--	--	--	--	--	--	0.000090 U	--
RR-3	9/19/2018	0.150 U	NA	0.28 U	0.47 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000098 U	--
RR-3	9/11/2019	0.048 U	NA	0.10 U	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	0.000050 U	--
RR-3	9/12/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000049 U	--
RR-3	9/14/2021	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000057 U	--
RR-3	8/2/2022	0.031 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000052 U	--
RR-3	10/4/2023	0.15 U	NA	0.12 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000051 U	--
RR-4	10/5/2011	0.143	5.20 U	0.12	0.495 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--	--
RR-4	12/7/2011	0.13	4.90 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	4/6/2012	0.05 U	4.90 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	6/13/2012	0.05 UJ	NA	0.12 UJ	0.24 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	--
RR-4	9/12/2012	0.19	NA	0.16	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	12/12/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	3/14/2013	0.063	NA	0.13 U	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	6/10/2013	0.071	NA	0.054	0.049 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	9/26/2013	0.05 U	NA	0.12 U	0.24 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--	--
RR-4	12/3/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	--
RR-4	3/3/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-4	6/11/2014	0.050 U	NA	0.12	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-4	9/22/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-4	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-4	3/23/2015	0.050 U	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
RR-4	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
RR-4	9/23/2015	0.050 U	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	--
RR-4	12/22/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	3/21/2016	0.100 U	NA	0.095 U	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-4	6/21/2016	0.100 UJ	NA	0.110 UJ	0.110 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	--
RR-4	9/19/2016	0.10 U	NA	0.0799 J	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	12/6/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	3/22/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	6/21/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	9/18/2017	0.150 U	NA	0.24 U	0.39 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	12/12/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	3/20/2018	0.150 U	NA	0.22 U	0.37 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	6/19/2018	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	9/18/2018	0.150 U	NA	0.13 J	0.39 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	--
RR-4	12/11/2018	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
RR-4	3/12/2019	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--
RR-4	6/17/2019	0.070 U	NA	0.21 J	0.33 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
RR-4	9/9/2019	0.048 U	NA	0.23 U	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	
RR-4	12/10/2019	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	3/23/2020	0.070 U	NA	0.11 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	6/23/2020	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	9/21/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	12/15/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	3/30/2021	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	6/22/2021	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	9/13/2021	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	12/6/2021	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	2/8/2022	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	5/3/2022	0.039 J	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	8/1/2022	0.048 J	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	4/11/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-4	10/3/2023	1.5 U	NA	0.12 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	6/14/2011	3.1	4.90 U	1.3	0.24 U	0.001 U	0.0014	0.0011	0.002 U	--	
RR-5	10/3/2011	1.18	5.40 U	0.682	0.5 U	0.0004 U	0.001 U	0.001 U	0.002 U	--	
RR-5	12/7/2011	0.26	4.90 U	0.14	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	4/3/2012	0.05 U	5.30 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	6/14/2012	0.53	NA	0.25	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	9/12/2012	1.1	NA	0.47	0.24 U	0.001 U	0.001 U	0.00037 J	0.00029 J	--	
RR-5	12/13/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	3/14/2013	0.32	NA	0.37	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	6/11/2013	0.34	NA	0.17	0.055	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	10/8/2013	0.38	NA	0.58	0.25 U	0.001 U	0.015	0.001 U	0.002 U	--	
RR-5	12/2/2013	0.85	NA	0.29	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-5	3/4/2014	0.62	NA	0.34	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-5	6/11/2014	0.51	NA	0.49	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-5	9/22/2014	0.050 U	NA	0.12	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-5	12/17/2014	0.068	NA	0.25	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-5	3/23/2015	0.050 U	NA	0.24	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-5	6/16/2015	0.095	NA	0.15	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-5	9/22/2015	0.26	NA	0.21	0.25 U	-- R	-- R	-- R	-- R	--	
RR-5	11/19/2015	NA	NA	NA	NA	0.0020 U	0.010	0.0030 U	0.0030 U	--	
RR-5	12/22/2015	0.10 U	NA	0.37	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	3/21/2016	0.100 U	NA	0.0916 J	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-5	6/22/2016	0.451	NA	0.342	0.150 J	0.00025 J	0.0010 U	0.00027	0.0020 U	--	
RR-5	9/20/2016	0.256	NA	0.325	0.0419 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	12/6/2016	0.100 U	NA	0.17	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	3/21/2017	0.150 U	NA	0.20 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	6/21/2017	0.088 J	NA	0.23 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	9/20/2017	0.520	NA	0.53	0.43 U	0.00014 J	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	12/13/2017	0.150 U	NA	0.24	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	3/19/2018	0.150 U	NA	0.19 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	6/18/2018	0.150 U	NA	0.20 J	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	9/19/2018	0.160	NA	0.54	0.13 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-5	12/11/2018	0.130 J	NA	0.75	0.65	0.000093 U	0.0180	0.00020 U	0.00044 U	--	
RR-5	3/13/2019	0.070 U	NA	0.32	0.17 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	6/17/2019	0.180	NA	0.29	0.16 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	9/10/2019	0.065 J	NA	0.23 J	0.14 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	
RR-5	12/10/2019	0.070 U	NA	0.12 U	0.13	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	3/24/2020	0.180	NA	0.47	0.28 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	6/23/2020	0.070 U	NA	0.19 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	9/22/2020	0.070 U	NA	0.18 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	12/14/2020	0.160	NA	0.21 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	3/29/2021	0.13 J	NA	0.27	0.41 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	6/22/2021	0.11 J	NA	0.13 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	9/13/2021	0.13 J	NA	0.19 J	0.12 U	0.000110 J	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	12/6/2021	0.070 U	NA	0.32	0.39	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	2/8/2022	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	5/3/2022	0.054 J	NA	0.22 J	0.27 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	8/1/2022	0.150	NA	0.15 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	4/12/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-5	10/3/2023	0.15 U	NA	0.37	0.25 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
RR-6	6/14/2011	0.05 U	5.00 U	0.13 U	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	10/3/2011	0.16 U	4.90 U	0.1 U	0.5 U	0.0004 U	0.001 U	0.001 U	0.002 U	--	
RR-6	12/6/2011	0.05 U	5.10 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	4/3/2012	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	6/13/2012	0.05 UJ	NA	0.12 UJ	0.24 UJ	0.001 UJ	0.001 UJ	0.0010 UJ	0.002 UJ	--	
RR-6	9/12/2012	0.024 U	NA	0.12 U	0.59	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	12/13/2012	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	3/13/2013	0.065	NA	0.13 U	0.26 U	0.001 U	0.001 U	0.001 U	0.002 U	--	

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D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
RR-6	6/10/2013	0.05 U	NA	0.024 U	0.049 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	9/27/2013	0.05 U	NA	0.12 U	0.24 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	--	
RR-6	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
RR-6	3/4/2014	0.050 U	NA	0.12 U	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-6	6/11/2014	0.050 U	NA	0.12 U	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-6	9/24/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-6	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-6	3/23/2015	0.073	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-6	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-6	9/23/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
RR-6	12/23/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-6	3/21/2016	0.100 U	NA	0.0526 J	0.20 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-6	6/21/2016	0.100 UJ	NA	0.100 U	0.100 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
RR-6	9/19/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-6	12/6/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-6	3/21/2017	0.150 U	NA	0.25 U	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-6	6/21/2017	0.150 U	NA	0.24 U	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
RR-6	9/18/2017	0.150 U	NA	0.25 U	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
Lower Sand Unit											
DMW-1	12/19/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	2/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	5/9/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	7/31/2007	0.05 U	4.76 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.00154	-0.999 U	--	
DMW-1	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	8/13/2008	0.05 U	5.21 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
DMW-1	11/10/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	8/14/2009	0.081	5.00 U	0.14	0.24 U	0.0018	0.001 U	0.001 U	-0.998 U	--	
DMW-1	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-1	9/14/2010	0.057	5.40 U	0.8	0.3	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-1	9/29/2011	0.16 UJ	5.40 UJ	0.43 J	0.25 UJ	0.0004 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	
DMW-1	9/10/2012	0.029 J	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-1	9/25/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-1	9/24/2014	0.050 U	NA	0.79	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
DMW-1	9/22/2015	0.050 U	NA	0.60	0.25 U	-- R	-- R	-- R	-- R	--	
DMW-1	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
DMW-1	9/21/2016	0.10 U	NA	0.500	0.0674 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-1	9/20/2017	0.150 U	NA	0.91	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-1	9/19/2018	0.150 U	NA	1.2	0.28 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-1	9/9/2019	0.048 U	NA	0.22 U	0.11 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	
DMW-1	9/22/2020	0.070 U	NA	0.41	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-1	9/14/2021	0.070 U	NA	0.26	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-1	8/3/2022	0.031 UJ	NA	0.69	0.17 J	0.000093 UJ	0.00031 UJ	0.00020 UJ	0.00044 UJ	--	
DMW-1	10/4/2023	0.420 J	NA	0.40	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-2	12/19/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	2/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	5/9/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	7/31/2007	0.106	4.9 U	0.243 U	0.485 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
DMW-2	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	8/13/2008	0.0748	5.21 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
DMW-2	11/10/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	8/13/2009	0.089	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	-0.998 U	--	
DMW-2	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	9/14/2010	0.05 U	4.90 U	0.26	1.5	0.001 U	0.001 U	0.001 U	-0.998 U	--	
DMW-2	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
DMW-2	9/30/2011	0.343	5.3 U	0.201	0.5 U	0.0814	0.001 U	0.001 U	0.002 U	--	
DMW-2	4/5/2012	0.6	NA	NA	NA	0.12	0.001 U	0.001 U	0.002 U	--	
DMW-2	6/14/2012	1.0	NA	0.84	0.24 U	0.15	0.0012	0.001 U	0.002 U	--	
DMW-2	9/13/2012	0.71	NA	0.79	0.24 U	0.12	0.00096 J	0.00042 J	0.0015 J	--	
DMW-2	12/13/2012	0.37	NA	0.43	0.24 U	0.027	0.001 U	0.001 U	0.002 U	--	
DMW-2	3/12/2013	0.15	NA	0.38	0.24 U	0.0029	0.001 U	0.001 U	0.002 U	--	
DMW-2	6/12/2013	0.38	NA	0.35	0.05 U	0.02	0.001 U	0.001 U	0.002 U	--	

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								Naphthalene	
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a		
Site-Specific Groundwater Cleanup Level:		15				0.16		20	1.7	--	--
Site-Specific Surface Water Cleanup Level:		15				0.04		5	0.43	--	--
Site-Specific Contingency Trigger Level:		--				0.08		--	--	--	--
DMW-2	9/25/2013	0.5	NA	0.92	0.24 U	0.0021	0.001 U	0.001 U	0.002 U	U	--
DMW-2	12/4/2013	0.31	NA	0.24	0.24 U	0.0046	0.001 U	0.001 U	0.002 U	U	--
DMW-2	3/6/2014	0.25	NA	0.80	0.24 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	U	--
DMW-2	6/9/2014	0.50	NA	2.2	0.39	0.017	0.0010 U	0.0010 U	0.0020 U	U	--
DMW-2	9/23/2014	0.16	NA	1.4	0.24	0.0050 U	0.0050 U	0.0050 U	0.010 U	U	--
DMW-2	12/15/2014	0.35	NA	2.1	0.54	0.0010 U	0.0010 U	0.0010 U	0.0020 U	U	--
DMW-2	3/25/2015	0.27	NA	1.4	0.36	0.0020 U	0.0020 U	0.0030 U	0.0030 U	U	--
DMW-2	6/15/2015	0.26	NA	2.2	0.53	0.0060	0.0020 U	0.0030 U	0.0030 U	U	--
DMW-2	9/23/2015	0.55	NA	1.6	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	U	--
DMW-2	12/22/2015	0.11	NA	1.3	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-2	3/23/2016	0.177	NA	1.10	0.115 J	0.00026 J	0.00023 J	0.0010 U	0.0020 U	U	--
DMW-2	6/22/2016	0.0717 J	NA	0.450	0.0818 J	0.001 U	0.0010 U	0.0010 U	0.0020 U	U	--
DMW-2	9/20/2016	0.133	NA	0.897	0.106	0.0111	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-2	12/8/2016	0.790	NA	3.1	0.12 U	0.00037	0.00036 J	0.00023 J	0.0014 J	U	--
DMW-2	3/21/2017	0.390	NA	1.5	0.19 J	0.00025 J	0.0010 U	0.0010 U	0.00063 J	U	--
DMW-2	6/21/2017	0.340	NA	1.1	0.14 J	0.0013	0.0010 U	0.00023 J	0.00066 J	U	--
DMW-2	9/19/2017	0.190	NA	1.2	0.13 J	0.00066	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-2	12/12/2017	0.150	NA	1.1	0.16 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-2	3/20/2018	0.29	NA	1.4	0.18 J	0.00014 J	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-2	6/19/2018	0.074 J	NA	0.70	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-2	9/18/2018	0.140 J	NA	1.9	0.80	0.0018	0.0010 U	0.0010 U	0.00057 J	U	--
DMW-2	12/11/2018	0.070 U	NA	1.7	0.70	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	3/13/2019	0.083 J	NA	0.86	0.21 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	6/18/2019	0.073 J	NA	1.9	0.45	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	9/11/2019	0.150	NA	0.31 J	0.11 U	0.00014 U	0.00014 J	0.00014 U	0.00047 J	U	--
DMW-2	12/10/2019	0.070 U	NA	1.1	0.22 J	0.00009 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	3/24/2020	0.070 U	NA	1.1	0.16 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	6/24/2020	0.070 U	NA	0.86	0.17 J	0.00014 J	0.00031 U	0.00021 J	0.00044 U	U	--
DMW-2	9/23/2020	0.070 U	NA	0.57	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	12/14/2020	0.070 U	NA	0.89	0.19 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	3/30/2021	0.070 U	NA	0.72	0.18 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	6/22/2021	0.070 U	NA	0.67	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	9/14/2021	0.070 U	NA	0.57	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	12/6/2021	0.070 U	NA	2.1	0.71	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	2/8/2022	0.071 J	NA	0.62	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	5/3/2022	0.042 J	NA	2.1	0.73	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	8/2/2022	0.044 J	NA	0.56	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	4/11/2023	0.031 U	NA	0.42	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-2	10/3/2023	1.5 U	NA	0.83	0.22 J	0.00093 U	0.0031 U	0.0020 U	0.0044 U	U	--
DMW-3	12/21/2006	0.105	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	2/8/2007	0.168 J	4.90 U	0.245 U	0.49 U	0.00882	0.0005 U	0.0005 U	0.00138	U	--
DMW-3	5/10/2007	0.102	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	7/31/2007	0.0591	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	11/7/2007	0.0554	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.000631	0.001 U	U	--
DMW-3	2/15/2008	0.0520	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	5/5/2008	0.05 U	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	8/14/2008	0.05 U	5.21 U	0.248 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	11/13/2008	0.05 U	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	2/26/2009	0.05 U	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	5/13/2009	0.0705	4.72 U	0.362	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	8/12/2009	0.0510	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	U	--
DMW-3	11/11/2009	0.0590	5.00 U	0.3	0.66	0.001 U	0.001 U	0.001 U	0.001 U	U	--
DMW-3	3/26/2010	0.0670	5.00 U	0.27	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	U	--
DMW-3	6/11/2010	1.3000	5.10 U	1.6	0.25 U	0.022	0.001 U	0.014	0.104	U	--
DMW-3	9/16/2010	0.0500 U	5.10 U	0.19	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	U	--
DMW-3	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	U	--
DMW-3	10/4/2011	0.0800 U	5.00 U	0.14	0.25 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	9/10/2012	0.05 U	NA	0.087 J	0.065 J	0.001 U	0.001 U	0.001 U	0.002 U	U	--
DMW-3	9/26/2013	0.05 U	NA	0.12 U	0.24 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	U	--
DMW-3	9/25/2014	0.050 U	NA	1.1	0.47	0.0010 U	0.0010 U	0.0010 U	0.0020 U	U	--
DMW-3	9/23/2015	0.050 U	NA	0.35	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	U	--
DMW-3	9/22/2016	0.10 U	NA	1.39	0.119	0.0010 U	0.0010 U	0.0010 U	0.0030 U	U	--
DMW-3	9/21/2017	0.110 J	NA	1.2	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.00098 J	U	--
DMW-3	9/18/2018	0.084 J	NA	2.1	0.84	0.00040 U	0.0010 U	0.0010 U	0.00044 J	U	--
DMW-3	9/9/2019	0.310	NA	0.35 J	0.13 U	0.00014 U	0.00013 U	0.00014 U	0.00017 J	U	--
DMW-3	9/22/2020	0.150	NA	0.86	0.14 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-3	9/14/2021	0.150	NA	0.76	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-3	8/3/2022	0.510 J	NA	1.1	0.20 J	0.000093 UJ	0.00031 UJ	0.00020 UJ	0.00044 UJ	UJ	--
DMW-3	10/4/2023	0.15 U	NA	1.6	0.68 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	U	--
DMW-4	12/19/2006	0.486	4.76 U	0.238 U	0.476 U	0.0005 U	0.000601 J	0.00123 J	0.00138 J	U	--
DMW-4	2/7/2007	0.279	4.72 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	U	--

Table 2
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Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
DMW-4	5/9/2007	0.218	4.76 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.00125	0.001 U	--	
DMW-4	8/1/2007	0.603	5.00 U	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
DMW-4	11/7/2007	0.362	5.26 U	0.253 U	0.505 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
DMW-4	2/15/2008	0.267	0.47 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
DMW-4	5/5/2008	0.495	4.72 U	0.236 U	0.472 U	0.000532	0.0005 U	0.00143	0.001 U	--	
DMW-4	8/13/2008	0.503	5.21 U	0.243 U	0.485 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
DMW-4	11/12/2008	0.318	4.81 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.00118	--	
DMW-4	2/25/2009	0.210	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	--	
DMW-4	5/13/2009	0.321	4.76 U	0.243 U	0.476 U	0.0005	0.0005 U	0.00119	0.001 U	--	
DMW-4	8/11/2009	0.190	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	11/12/2009	0.170	5.00 UJ	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.001 U	--	
DMW-4	3/24/2010	0.490	6.60	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	6/8/2010	0.540	5.10 U	0.39	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	9/14/2010	0.280	4.70 U	0.28	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	12/20/2010	0.270	4.80 U	0.13	0.27	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	3/8/2011	0.360	5.40 U	0.12	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	6/14/2011	0.530	5.00 U	0.2	0.24 U	0.001 U	0.001 U	0.0056	0.002 U	--	
DMW-4	10/5/2011	0.285	5.40 U	0.152	0.51 U	0.0004 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	12/5/2011	0.210	5.00 U	0.37	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	4/5/2012	0.230	4.90 U	0.59	0.4	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	6/13/2012	0.160 J	NA	0.28 J	0.24 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.002 UJ	--	
DMW-4	9/11/2012	0.160 U	NA	0.095 J	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	12/12/2012	0.170	NA	0.14	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	3/12/2013	0.350	NA	0.14	0.27	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	6/11/2013	0.240	NA	0.12	0.048 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	9/23/2013	0.310	NA	0.21	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	12/4/2013	0.410	NA	0.13	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	--	
DMW-4	3/3/2014	0.49	NA	0.25	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
DMW-4	6/10/2014	0.36	NA	0.44	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
DMW-4	9/24/2014	0.15	NA	0.31	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
DMW-4	12/16/2014	0.12	NA	0.26	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
DMW-4	3/23/2015	0.35	NA	0.26	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
DMW-4	6/16/2015	0.29	NA	0.26	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
DMW-4	9/21/2015	0.12	NA	0.11	0.26 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	--	
DMW-4	12/21/2015	0.10 U	NA	0.59	1.9	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	3/21/2016	0.403	NA	0.255	0.130 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	--	
DMW-4	6/21/2016	0.446 J	NA	0.157	0.0571 U	0.001 U	0.0010 U	0.00029 J	0.0020 U	--	
DMW-4	9/22/2016	0.448	NA	0.294	0.124	0.0010 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	12/7/2016	0.180	NA	0.26 J	0.12 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	3/20/2017	0.180	NA	0.22 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	6/20/2017	0.480	NA	0.30	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.00046 J	--	
DMW-4	9/20/2017	0.380	NA	0.31	0.45 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	12/11/2017	0.190	NA	0.28	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	3/20/2018	0.370	NA	0.37	0.23 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	6/18/2018	0.52	NA	0.36	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	9/17/2018	0.30	NA	0.24 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--	
DMW-4	12/11/2018	0.370	NA	0.44	0.27 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	3/12/2019	0.270	NA	0.54	0.21 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	6/17/2019	0.290	NA	0.36	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	9/11/2019	0.190	NA	0.35	0.13 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	--	
DMW-4	12/10/2019	0.220	NA	0.43	0.13 J	0.00009 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	3/23/2020	0.290	NA	0.33	0.42	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	6/23/2020	0.260	NA	0.17 J	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	9/21/2020	0.320	NA	0.24 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
DMW-4	9/21/2020	0.320	NA	0.24 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--	
FW-1	7/31/2007	0.05 U	4.90 U	0.236 U	0.472 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
FW-1	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	8/12/2008	0.05 U	5.21 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	--	
FW-1	11/7/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	8/14/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	-0.998 U	--	
FW-1	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-1	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-2	12/18/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	
FW-2	2/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID		DATE	CONCENTRATION (mg/L)								Naphthalene
			TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	
Site-Specific Groundwater Cleanup Level:			15				0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15				0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--				0.08	--	--	--	--
FW-2	5/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	7/31/2007	0.05 U	4.81 U	0.240 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	NS	--
FW-2	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	2/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	8/12/2008	0.05 U	5.21 U	0.248 U	0.495 U	0.0005 U	0.0005 U	0.0005 U	-0.999 U	NS	--
FW-2	11/7/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	8/11/2009	0.05 U	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	-0.998 U	NS	--
FW-2	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-13	12/19/2006	0.187 J	4.72 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	2/6/2007	0.239	4.81 U	0.24 U	0.481 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	5/8/2007	0.405 J	4.76 U	0.238 U	0.476 U	0.000887	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	8/1/2007	0.225	5.00 U	0.26 U	0.521 U	0.000514	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	11/6/2007	0.378	4.90 U	0.253 U	0.505 U	0.00112	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	2/13/2008	0.387	4.72 U	0.236 U	0.472 U	0.0011	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	5/5/2008	0.376	4.72 U	0.238 U	0.476 U	0.00106	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	8/13/2008	0.228	5.21 U	0.245 U	0.49 U	0.000715	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	11/12/2008	0.0747	4.76 U	0.238 U	0.476 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	2/26/2009	0.439	4.72 U	0.236 U	0.472 U	0.00154	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	5/13/2009	0.445 J	4.72 U	0.236 U	0.472 U	0.00247 J	0.0005 UJ	0.0005 UJ	0.001 UJ	NS	--
FW-13	8/12/2009	0.280	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	11/11/2009	0.380	5.00 U	0.29	0.7	0.001 U	0.001 U	0.001 U	0.001 U	NS	--
FW-13	11/11/2009	0.380	5.00 U	0.29	0.7	0.001 U	0.001 U	0.001 U	0.001 U	NS	--
FW-13	3/26/2010	0.230	5.00 U	0.14	0.55	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	6/9/2010	0.170	5.00 U	0.19	0.75	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	9/16/2010	0.140	4.80 U	0.14	0.58	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	12/20/2010	0.076	4.90 U	0.12 U	0.41	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	3/10/2011	0.140	5.00 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	6/13/2011	0.150	4.90 U	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	9/30/2011	0.099	5.10 U	0.101 U	0.505 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	NS	--
FW-13	12/7/2011	0.077	4.90 U	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	4/3/2012	0.050 U	5.20 U	0.12 U	0.24	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	6/12/2012	0.200	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	9/10/2012	0.099 U	NA	0.12 U	0.13 J	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	12/11/2012	0.050 UJ	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	3/13/2013	0.053	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	6/11/2013	0.089	NA	0.06	0.073	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	9/25/2013	0.097	NA	0.14	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	12/4/2013	0.081	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	NS	--
FW-13	3/6/2014	0.28	NA	0.28	0.24 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NS	--
FW-13	6/9/2014	0.40	NA	0.41	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	NS	--
FW-13	9/24/2014	0.076	NA	0.24	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	NS	--
FW-13	12/15/2014	0.20	NA	0.57	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	NS	--
FW-13	3/24/2015	0.42	NA	0.11	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	NS	--
FW-13	6/15/2015	0.14	NA	0.46	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	NS	--
FW-13	9/24/2015	0.12	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	NS	--
FW-13	12/23/2015	0.16	NA	0.58	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	3/23/2016	0.131	NA	0.235	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	NS	--
FW-13	6/22/2016	0.147 J	NA	0.247	0.128 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	NS	--
FW-13	9/20/2016	0.132	NA	0.230	0.0441 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	12/6/2016	0.100 U	NA	0.083 J	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	3/22/2017	0.085 J	NA	0.26	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	6/20/2017	0.150 U	NA	0.19 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	9/18/2017	0.140 U	NA	0.37	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.00050 J	NS	--
FW-13	12/11/2017	0.150 U	NA	0.14 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	3/20/2018	0.095 J	NA	0.40	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	6/19/2018	0.150 U	NA	0.18 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	9/19/2018	0.150 U	NA	0.33	0.16 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	NS	--
FW-13	12/11/2018	0.070 U	NA	0.82	0.43	0.000093 U	0.00031 U	0.00020 U	0.00044 U	NS	--
FW-13	3/13/2019	0.079 J	NA	0.34	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	NS	--
FW-13	6/17/2019	0.070 U	NA	0.37	0.12 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	NS	--
FW-13	9/10/2019	0.084 J	NA	0.14 J	0.13 U	0.000014 U	0.00013 U	0.00014 U	0.00031 U	NS	--
FW-13	12/10/2019	0.070 U	NA	0.37	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	NS	--
FW-13	3/24/2020	0.070 U	NA	0.76	0.31 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	NS	--
FW-13	6/24/2020	0.070 U	NA	0.22 J	0.13 U	0.00012 J	0.00031 U	0.00020 U	0.00044 U	NS	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X ^a	Naphthalene
Site-Specific Groundwater Cleanup Level:			15			0.16	20	1.7	--	--
Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
FW-13	9/22/2020	0.086 J	NA	0.20 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	12/15/2020	0.072 J	NA	0.27	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	3/31/2021	0.070 U	NA	0.16 J	0.38 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	6/22/2021	0.070 U	NA	0.16 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	9/14/2021	0.070 U	NA	0.16 J	0.14 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	12/7/2021	0.070 U	NA	0.64	0.32 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	2/9/2022	0.092 J	NA	0.24	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	5/3/2022	0.055 J	NA	0.41	0.27 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	8/2/2022	0.070 J	NA	0.21 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	4/12/2023	0.031 U	NA	0.13 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--
FW-13	10/3/2023	0.15 U	NA	0.28	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	--

Notes:

Site-Specific Groundwater Cleanup Level. Consent Decree No. 91-2-2012-1, effective 9/3/91; data reported as mg/L.

Site-Specific Surface Water Cleanup Level. Consent Decree No. 91-2-2012-1, effective 9/3/91; data reported as mg/L.

ID - Identification

TPH - Total Petroleum Hydrocarbons

TPH-G - Total Petroleum Hydrocarbons referenced to gasoline

TPH-D = Total Petroleum Hydrocarbons referenced to diesel

TPH-O&G - Total Petroleum Hydrocarbons referenced to heavy oil and grease

B - Benzene

T - Toluene

E - Ethylbenzene

X - Total Xylenes

NA - Not analyzed

NS - Not sampled

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

UJ - The analyte was not detected at or above the sample reporting limit; however, the reporting limit is approximate because quality control criteria were not met.

Y - The chromatographic response resembles a typical fuel pattern.

R - The sample results are rejected. The presence or absence of the analyte cannot be verified.

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

Bold indicates exceedance of applicable surface water criteria.

Bold indicates exceedance of applicable groundwater criteria.

Italics indicate a reporting limit exceeding applicable criteria.

^a - Total Xylenes were calculated by combining concentrations of m, p-xylenes and o-xylenes. In cases where both are not detected above the reporting limit, the higher reporting limit is shown.

Table 3
Summary of Lead Analytical Results
Fourth Quarter 2023
D Street Petroleum Site

			LEAD (mg/L) EPA 6020	
			Total Lead	Dissolved Lead
Surface Water Cleanup Standards			0.006	---
Groundwater Cleanup Standards			0.022	---
	Sample ID	Date Collected		
Upper Sand Unit	B-17B	10/4/2023	0.00020 U	0.00020 U
	B-19	10/4/2023	0.00058 J	0.00020 U
	B-25	10/5/2023	0.00020 U	0.00031 J
	B-31	10/4/2023	0.0034	0.00020 U
	B-34	10/3/2023	0.00020 U	0.00020 U
	E-21	10/3/2023	0.00020 U	0.00020 U
	E-22 ^a	10/4/2023	0.00020 U	0.00020 U
	FW-3 ^a	10/4/2023	0.00020 U	0.00020 U
	FW-4 ^a	10/4/2023	0.00020 U	0.00020 U
	FW-5R ^a	10/4/2023	0.00020 U	0.00020 U
	FW-14 ^a	10/3/2023	0.00020 U	0.00020 U
	G-8	10/3/2023	0.00022 J	0.00020 U
	G-18	10/3/2023	0.00072 J	0.00020 U
	HC-111	10/5/2023	0.00020 U	0.00020 U
	RW-2	10/4/2023	0.00020 U	0.00020 U
	RW-5R	10/4/2023	0.00020 U	0.00020 U
	RW-8	10/4/2023	0.00020 U	0.00020 U
	T-2 ^a	10/5/2023	0.00020 U	0.00027 J
	T-3	10/3/2023	0.00063 J	0.00020 U
Surface Water Compliance	FW-15	10/3/2023	0.0021	0.00020 U
	RR-1	10/3/2023	0.00020 U	0.00020 U
	RR-2	10/4/2023	0.00020 U	0.00020 U
	RR-3	10/4/2023	0.00020 U	0.00020 U
	RR-4	10/3/2023	0.00020 U	0.00020 U
	RR-5	10/3/2023	0.00020 U	0.00020 U
Lower Sand Unit	DMW-1	10/4/2023	0.00020 U	0.00020 U
	DMW-2	10/3/2023	0.00020 U	0.00020 U
	DMW-3	10/4/2023	0.00020 U	0.00020 U
	FW-13	10/3/2023	0.00020 U	0.00020 U

Notes:

U = - The analyte was analyzed for, but was not detected above the reported limit.

J = The analyte is present in the sample; the reported concentration is an estimate

^a Wells E-22, FW-3, FW-4, FW-5R, FW-14, and T-2 are sentinel wells.

Bolding indicates exceedance of applicable surface water criteria.

Bolding indicates exceedance of applicable groundwater criteria.

Table 4
Summary of Natural Attenuation Parameters
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
Upper Sand Unit									
B-1A	8/25/2003	6.16	NM	NM	NA	NA	NA	NM	NA
B-1A	10/30/2003	7.2	1.76	NM	NA	NA	NA	NM	NA
B-1A	1/28/2004	5.63	4.82	NM	NA	NA	NA	NM	NA
B-1A	5/5/2004	5.82	2.21	NM	NA	NA	NA	NM	NA
B-1A	8/10/2004	6.60	1.93	67	NA	NA	NA	NM	NA
B-1A	10/27/2004	6.57	6.02	-84	NA	NA	NA	NM	NA
B-1A	2/7/2005	6.09	3.75	-29	NA	NA	NA	NM	NA
B-1A	5/10/2005	6.50	6.91	39	NA	NA	NA	NM	NA
B-1A	8/2/2005	6.16	7.88	107	NA	NA	NA	NM	NA
B-1A	11/7/2005	6.41	0.46	58.4	0.200 U	27.7	171	NM	NA
B-1A	2/7/2006	6.18	1.00	129	2.44	23.7	114	1.6	NA
B-1A	8/4/2006	6.37	1.93	-72.6	0.282 J	24.1	NA	2.4	NA
B-1A	2/5/2007	6.44	1.52	53.3	NA	NA	NA	1.9	NA
B-1A	5/7/2007	6.03	0.01	57.8	NA	NA	NA	1.3	NA
B-1A	7/30/2007	6.25	2.00	148.8	0.9	23	NA	3.0	NA
B-1A	11/5/2007	6.34	3.99	-67.2	NA	NA	NA	NM	NA
B-1A	2/12/2008	6.38	0.03	13.8	NA	NA	NA	0.9	NA
B-1A	5/5/2008	6.27	0.03	40	NA	NA	NA	NM	NA
B-1A	8/12/2008	6.07	0.68	137.3	NA	NA	NA	NM	NA
B-1A	11/11/2008	NM	NM	NM	NA	NA	NA	NM	NA
B-1A	2/24/2009	6.28	0.03	85.7	1.59	27.5	NA	0.5	NA
B-1A	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
B-1A	8/10/2009	5.36	0.04	94.4	0.90 U	18	NA	1.0	NA
B-1A	03/30/2010	5.30	1.04	192	0.95	7.5	NA	0.0	NA
B-2	5/10/2005	5.16	6.92	175	NA	NA	NA	NM	NA
B-2	8/2/2005	5.80	7.07	57	NA	NA	NA	NM	NA
B-2	11/7/2005	6.02	1.40	67	NA	NA	NA	NM	NA
B-2	2/7/2006	6.21	0.98	113.7	NA	NA	NA	NM	NA
B-2	5/1/2006	6.31	0.60	-156.4	NA	NA	NA	NM	NA
B-2	8/4/2006	6.31	1.60	-64.3	0.200 UJ	5.58	NA	1.0	NA
B-2	10/30/2006	6.38	0.02	30.9	3.0	11	NA	1.0	NA
B-2	11/27/2006	6.16	1.48	-45.2	4.2	5	NA	1.2	NA
B-2	12/18/2006	7.58	2.68	-117	4.7	21	NA	0.9	NA
B-2	2/5/2007	6.60	4.02	76.5	0.7	9	NA	0.0	NA
B-2	5/7/2007	5.90	0.01	63	0.5 U	250	NA	0.6	NA
B-2	7/30/2007	6.20	1.78	106.8	0.5 U	10	NA	0.5	NA
B-2	11/5/2007	6.20	5.85	-53.8	2.2	24	NA	1.2	NA
B-2	2/12/2008	6.42	0.02	27.8	0.31	18	NA	0.2	NA
B-2	5/6/2008	6.50	0.02	54.8	0.5 U	12	NA	0.2	NA
B-2	8/12/2008	5.95	1.54	155.3	4.8	14	NA	0.0	NA
B-2	11/11/2008	6.51	0.14	31.3	1.85	10.3	NA	0.0	NA
B-2	2/24/2009	6.10	0.06	128.5	2.02	19.9	NA	0.2	NA
B-2	5/11/2009	5.55	0.05	101	0.990	9.96	NA	0.0	NA
B-2	8/10/2009	6.14	0.03	108.35	5.5	14	NA	0.6	NA
B-2	11/10/2009	5.85	0.01	125.4	2.3	15	NA	NM	NA
B-2	03/29/2010	6.65	0.83	17	0.9 U	5 J	NA	NM	NA
B-2	06/11/2010	6.01	0.53	215	0.9 U	5	NA	0	NA
B-6	10/30/2006	6.83	0.10	9.8	0.8	77	NA	0.0	NA
B-6	11/27/2007	7.75	7.35	-72.3	0.5 U	35	NA	0.4	NA
B-6	12/20/2006	6.77	8.42	-40.9	11	230	NA	0.6	NA
B-6	2/6/2007	6.99	5.87	-28.2	5.3	130	NA	3.6	NA
B-6	5/8/2007	7.45	0.10	-125.4	0.5 U	70	NA	1.5	NA
B-6	7/30/2007	7.92	9.29	26.8	0.5 U	55	NA	0.8	NA
B-6	2/13/2008	7.90	0.23	-80.4	13	192	NA	0.8	NA
B-6	5/6/2008	7.94	0.18	136.8	5.7	80	NA	0.7	NA
B-6	8/12/2008	7.82	8.30	92.8	2	74	NA	1.2	NA
B-6	11/11/2008	NM	NM	NM	1.6	65	NA	1.0	NA
B-6	2/24/2009	7.80	0.11	-44.1	0.49	48.2	NA	1.8	NA
B-6	5/12/2009	7.68	0.09	40.2	0.740	49.3	NA	0.2	NA
B-6	8/11/2009	7.83	0.06	38.7	0.9 U	31	NA	0.8	NA
B-6	11/10/2009	8.43	0.21	-30.4	0.9 U	24	NA	1.2	NA
B-6	03/29/2010	8.10	11.34	36	0.9 U	180	NA	0.0	NA
B-6	06/11/2010	6.84	7.15	149	0.9 U	67	NA	0.0	NA
B-12	03/25/2010	6.59	0.00	-103	NA	NA	NA	3.2	NA
B-12	06/15/2010	6.80	0.00	48	NA	NA	NA	NM	NA
B-16	03/30/2010	6.70	3.94	203	NA	NA	NA	0.0	NA
B-16	06/15/2010	6.94	0.00	83	NA	NA	NA	NM	NA
B-17B	8/25/2003	6.60	NM	NM	NA	NA	NA	NM	NA
B-17B	10/30/2003	7.29	4.04	NM	NA	NA	NA	NM	NA
B-17B	1/28/2004	5.82	6.51	NM	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
B-17B	5/5/2004	5.99	4.86	NM	NA	NA	NA	NM	NA
B-17B	8/10/2004	5.43	12.09	-18	NA	NA	NA	NM	NA
B-17B	10/27/2004	7.51	8.29	-127	NA	NA	NA	NM	NA
B-17B	2/7/2005	7.49	3.39	-86	NA	NA	NA	NM	NA
B-17B	5/10/2005	6.52	4.57	-38	NA	NA	NA	NM	NA
B-17B	8/2/2005	6.45	7.13	57	NA	NA	NA	NM	NA
B-17B	11/7/2005	6.54	2.37	5.4	1.97	26.5	44.9	NM	NA
B-17B	2/7/2006	7.44	0.46	305.2	0.776	15.0	57.2	NM	NA
B-17B	5/1/2006	6.03	4.76	-129	NA	NA	NA	0.8	NA
B-17B	8/4/2006	6.15	2.41	-42.6	0.200 UJ	61.4	NA	NM	NA
B-17B	10/30/2006	6.25	0.06	64	0.6	20	NA	1.8	NA
B-17B	11/27/2006	6.43	5.50	-62.5	3.3	44	NA	0.0	NA
B-17B	12/18/2006	7.48	0.68	-105.1	2.2	21	NA	0.0	NA
B-17B	2/5/2007	7.32	1.66	44	1.5	8	NA	0.0	NA
B-17B	5/7/2007	5.48	0.05	118	1.4	210	NA	0.2	NA
B-17B	7/30/2007	6.27	2.53	180.8	1.0	16	NA	0.0	NA
B-17B	11/5/2007	6.21	6.80	-28.6	0.5 U	63	NA	0.2	NA
B-17B	2/12/2008	7.14	0.08	-104.2	1.3	13	NA	0.0	NA
B-17B	5/6/2008	6.69	0.10	56.9	0.7	39	NA	0.2	NA
B-17B	8/12/2008	5.77	5.77	156.2	0.5 U	40	NA	0.4	NA
B-17B	11/11/2008	6.33	0.57	-4.9	2.9	24.3	NA	0.2	NA
B-17B	2/24/2009	6.90	0.11	88.4	0.4	17.4	NA	0.0	NA
B-17B	5/11/2009	4.70	0.06	189.9	1.42	8.79	NA	0.0	NA
B-17B	8/10/2009	6.78	0.05	61.9	0.90 U	12	NA	0.0	NA
B-17B	11/9/2009	6.24	0.06	241.7	3.1	45	NA	0.2	NA
B-17B	03/29/2010	6.10	10.62	178	0.9 U	31	NA	0.0	NA
B-17B	06/11/2010	6.00	4.39	217	0.9 U	4.8	NA	0.0	NA
B-17B	9/15/2010	5.98	0.71	88	6.0	9.4	59	0.1	NA
B-17B	09/30/2011	6.11	0.00	65	0.9 U	6.5	35	NM	NA
B-17B	9/13/2012	6.81	0.74	37.6	0.9 U	24	58	0.0	NA
B-17B	9/27/2013	6.70	0.12	43.3	0.9 U	17	43	0.1	NA
B-17B	9/26/2014	6.25	1.79	76	0.9 U	22	22	0.0	NA
B-17B	9/24/2015	7.02	0.00	101	0.45	32	42	0.0	NA
B-17B	9/21/2016	6.80	1.22	-59	1.0 U	69.8	29.8	1.0	NA
B-17B	9/20/2017	6.87	2.52	70	0.20	11	67	0.0	NA
B-17B	9/20/2018	6.23	0.67	118	0.087 J	10	58	0.0	NA
B-17B	9/11/2019	8.24	0.00	-91	0.71	63	34	4.0	NA
B-17B	9/22/2020	6.38	0.00	-39	0.065 J	20	34	1.0	NA
B-17B	9/14/2021	6.97	0.00	-55	0.62	230	34	1.0	0.28
B-17B	8/3/2022	6.48	0.00	23	0.18 J	100	52	0.5	0.085
B-17B	10/4/2023	6.63	1.41	83	4.30	250	71	1.80	0.160
B-19	8/26/2003	6.54	NM	NM	NA	NA	NA	NM	NA
B-19	10/30/2003	8.02	0.84	NM	NA	NA	NA	NM	NA
B-19	1/29/2004	6.99	1.35	NM	NA	NA	NA	NM	NA
B-19	5/5/2004	6.91	4.01	NM	NA	NA	NA	NM	NA
B-19	8/11/2004	7.63	2.95	-66	NA	NA	NA	NM	NA
B-19	10/29/2004	6.98	6.07	-267	NA	NA	NA	NM	NA
B-19	2/7/2005	7.02	3.37	-166	NA	NA	NA	NM	NA
B-19	5/10/2005	7.05	8.01	-138	NA	NA	NA	NM	NA
B-19	8/2/2005	7.70	4.80	-330	NA	NA	NA	NM	NA
B-19	11/7/2005	7.28	0.23	-382.5	2.00 U	96.1	759	NM	NA
B-19	2/7/2006	7.23	0.33	-172.8	0.960	43.6	233	0.8	NA
B-19	5/1/2006	7.08	0.76	-162.3	0.200 U	10.2	338	2.0	NA
B-19	8/4/2006	7.03	1.97	-251.9	0.200 U	2.83	NA	0.6	NA
B-19	10/30/2006	6.76	0.01	-81.9	0.6	6	NA	0.8	NA
B-19	11/27/2006	6.89	0.71	-159.8	0.90	34	NA	2.0	NA
B-19	12/21/2006	6.13	1.52	-102.2	0.5 U	33	NA	3.4	NA
B-19	2/7/2007	7.12	0.91	-180.5	0.5 U	10	NA	0.8	NA
B-19	5/7/2007	6.70	0.01	-119.6	12	5.3	NA	1.6	NA
B-19	7/30/2007	6.86	1.06	-220.1	0.5 U	5 U	NA	1.9	NA
B-19	11/5/2007	6.78	1.12	-229.3	0.5 U	5 U	NA	1.6	NA
B-19	2/14/2008	7.11	0.01	-252.5	1.2	5	NA	1.0	NA
B-19	5/6/2008	6.82	0.30	99	0.5 U	2 U	NA	3.6	NA
B-19	8/12/2008	6.76	0.48	-162.8	1.5	2	NA	1.4	NA
B-19	11/12/2008	6.81	0.00	-254.5	0.2 U	18	NA	3.0	NA
B-19	2/27/2009	7.50	0.04	-122.8	0.2	10.7	NA	1.2	NA
B-19	5/13/2009	7.39	0.00	-249.28	0.2 U	29.4	NA	0.6	NA
B-19	8/12/2009	6.69	0.07	-84.4	0.90 U	2.6	NA	0.6	NA
B-19	11/10/2009	8.14	0.02	-108.6	0.90 U	17	NA	2.6	NA
B-19	03/29/2010	7.40	0.00	-189	0.90 U	77	NA	1.0	NA
B-19	06/09/2010	6.84	0.99	-256	0.90 U	3.3	NA	0.8	NA
B-19	6/15/2011	7.05	0.00	-212	NA	NA	NA	NM	NA
B-19	10/04/2011	7.06	1.34	-97	0.90 U	1.7	300	1.0	NA

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B-19	12/5/2011	6.93	1.16	-119	NA	NA	NA	NM	NA
B-19	4/4/2012	7.16	0.00	-208	NA	NA	NA	NM	NA
B-19	6/13/2012	5.90	0.44	-99.8	NA	NA	NA	NM	NA
B-19	9/12/2012	7.56	1.50	-225	0.90 U	3.7 J	330	2.0	NA
B-19	12/11/2012	6.86	0.05	-59.7	NA	NA	NA	NM	NA
B-19	3/13/2013	7.02	0.00	-112	NA	NA	NA	NM	NA
B-19	6/11/2013	7.22	0.40	-84.9	NA	NA	NA	NM	NA
B-19	9/24/2013	7.16	2.42	-84.8	0.90 U	1.8	320	3.2	NA
B-19	12/3/2013	6.99	0.00	-190	NA	NA	NA	NM	NA
B-19	3/5/2014	6.95	0.00	-154	NA	NA	NA	NM	NA
B-19	6/9/2014	6.97	0.07	-154	NA	NA	NA	NM	NA
B-19	9/25/2014	7.20	0.00	-192	0.90 U	2.7	290	1.5	NA
B-19	12/15/2014	6.87	0.00	-163	NA	NA	NA	NM	NA
B-19	3/26/2015	7.20	0.85	-76	NA	NA	NA	NM	NA
B-19	6/16/2015	7.63	0.00	-183	NA	NA	NA	NM	NA
B-19	9/24/2015	7.39	0.00	-133	0.20 U	2.5	330	2.0	NA
B-19	12/21/2015	6.95	0.00	-215	NA	NA	NA	NM	NA
B-19	3/23/2016	6.88	0.00	-204	NA	NA	NA	NM	NA
B-19	6/22/2016	7.62	0.49	-119	NA	NA	NA	NM	NA
B-19	9/22/2016	7.14	1.18	-157	0.10 U	6.5	240	1.0	NA
B-19	12/7/2016	6.93	0.00	-118	NA	NA	NA	NM	NA
B-19	3/20/2017	7.15	1.63	-90	NA	NA	NA	NM	NA
B-19	6/20/2017	7.42	0.00	-94	NA	NA	NA	NM	NA
B-19	9/21/2017	7.09	0.59	-116	0.17 J	0.50 U	200	1.0	NA
B-19	3/20/2018	7.02	1.81	-72	NA	NA	NA	NM	NA
B-19	9/20/2018	7.03	0.00	-243	0.20 U	36	230	NM	NA
B-19	3/12/2019	7.39	0.00	-127	NA	NA	NA	NM	NA
B-19	9/11/2019	8.69	0.00	-377	0.68 J	180	480	0.0	NA
B-19	3/23/2020	7.11	0.00	-313	NA	NA	NA	NM	NA
B-19	9/22/2020	8.40	0.30	-354	0.86	45	430	0.5	NA
B-19	3/30/2021	7.25	3.79	-182	NA	NA	NA	NM	NA
B-19	9/14/2021	7.96	0.00	-396	0.057 U	41	350	NM	0.090
B-19	8/2/2022	7.57	0.00	-141	0.14 J	7.9	220	0.0	0.033
B-19	10/4/2023	7.31	0.99	-356	0.65 J	320	400	0.94	0.240
B-20	10/31/2006	6.76	1.08	-129	3.7	44	NA	4.6	NA
B-20	11/27/2006	6.66	1.33	-136	2.0	51	NA	5.0	NA
B-20	12/19/2006	7.48	2.46	-247.2	1.3	22	NA	6.0	NA
B-20	2/8/2007	6.93	1.00	-128.8	2.4	6	NA	6.6	NA
B-20	5/9/2007	6.88	0.99	-195.1	0.5 U	11	NA	5.6	NA
B-20	8/2/2007	7.41	0.58	-116.7	0.5 U	5 U	NA	2.0	NA
B-20	11/7/2007 (a)	6.86	2.71	-153	1.6	5 U	NA	2.2	NA
B-20	2/14/2008	7.16	0.02	-226.5	2.0	4	NA	1.8	NA
B-20	5/6/2008	6.78	0.02	-159	0.8	2 U	NA	4.4	NA
B-20	8/12/2008	7.02	0.74	-147.7	0.7	3	NA	1.2	NA
B-20	11/12/2008	NM	NM	NM	0.2 U	0.4 U	NA	1.2	NA
B-20	2/25/2009	5.27	0.05	222.4	0.2 U	13.1	NA	3.2	NA
B-20	5/13/2009	6.77	0.01	-135.6	0.2 U	0.53	NA	1.4	NA
B-20	8/13/2009	7.31	0.06	-127.7	0.90 U	1.2 U	NA	NM	NA
B-20	11/10/2009	8.10	0.16	-97.8	0.90 U	1.2 U	NA	1.6	NA
B-20	03/29/2010	5.89	4.99	51	0.90 U	140	NA	1.4	NA
B-20	06/09/2010	6.30	5.28	-50	0.90 U	99	NA	3.8	NA
B-25	10/30/2006	6.36	0.02	-48.8	0.5 U	3	NA	5.6	NA
B-25	11/27/2006	6.67	1.17	-126.3	2.3	10	NA	5.0	NA
B-25	12/19/2006	7.37	1.84	-201.4	0.97	5 U	NA	5.0	NA
B-25	2/7/2007	6.91	1.46	-145	0.5 U	11	NA	5.0	NA
B-25	5/9/2007	6.82	2.01	-97.8	1.4 J	5 U	NA	5.8	NA
B-25	8/1/2007	6.76	1.85	-55.2	0.8	5 U	NA	2.9	NA
B-25	11/6/2007 (a)	6.56	0.05	-36.5	0.5 U	10	NA	5.2	NA
B-25	2/14/2008	6.79	0.01	-156.3	0.5 U	2 U	NA	5.0	NA
B-25	5/7/2008	7.00	0.04	189.9	0.7	5	NA	3.1	NA
B-25	8/12/2008	6.27	0.76	-14.3	2.5	4.1	NA	NM	NA
B-25	11/11/2008	6.78	0.00	NM	0.2	0.44	NA	3.5	NA
B-25	2/24/2009	6.70	0.02	-73.8	0.21	2.38	NA	5.8	NA
B-25	5/13/2009	6.81	0.18	-67.7	0.24	0.91	NA	5.0	NA
B-25	8/11/2009	6.96	0.01	-72.2	0.90 U	1.2 U	NA	NM	NA
B-25	11/11/2009	6.59	0.00	-101.7	0.90 U	1.2 U	NA	3.6	NA
B-25	03/23/2010	6.12	0.00	-109	0.90 U	1.5	NA	3.5	NA
B-25	06/09/2010	6.55	0.00	-58	0.90 U	1.2 U	NA	3.0	NA
B-25	9/15/2010	5.80	2.31	80	0.90 U	1.2 U	190	4.0	NA
B-25	12/20/2010	6.77	4.46	-197	NA	NA	NA	NM	NA
B-25	3/11/2011	6.72	0.00	-88	NA	NA	NA	NM	NA
B-25	6/16/2011	7.00	0.00	-160	NA	NA	NA	NM	NA
B-25	09/30/2011	7.60	0.00	-165	0.90 U	1.2 U	250	NM	NA

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B-25	12/6/2011	6.52	1.36	-116	NA	NA	NA	NM	NA
B-25	4/3/2012	6.97	0.00	-129	NA	NA	NA	NM	NA
B-25	6/12/2012	6.71	0.34	-97.8	NA	NA	NA	NM	NA
B-25	9/13/2012	6.52	0.35	-107.5	0.90 U	1.2 U	190	5.2	NA
B-25	12/11/2012	6.79	0.07	-126.1	NA	NA	NA	NM	NA
B-25	3/14/2013	NR	0.63	-130.4	NA	NA	NA	NM	NA
B-25	6/10/2013	7.36	0.39	-114.1	NA	NA	NA	NM	NA
B-25	9/26/2013	7.15	1.60	-122.5	0.90 U	1.2 U	230	3.0	NA
B-25	12/5/2013	6.96	0.00	-179	NA	NA	NA	NM	NA
B-25	3/6/2014	6.88	0.00	-145	NA	NA	NA	NM	NA
B-25	6/11/2014	6.95	0.00	-192	NA	NA	NA	NM	NA
B-25	9/24/2014	7.13	1.97	-212	0.90 U	1.2 U	280	2.0	NA
B-25	12/15/2014	7.06	6.25	-129	NA	NA	NA	NM	NA
B-25	3/25/2015	7.00	0.83	-93	NA	NA	NA	NM	NA
B-25	6/16/2015	6.92	0.00	-112	NA	NA	NA	NM	NA
B-25	9/24/2015	6.83	0.00	5.11	0.20 U	1.2 U	200	7.0	NA
B-25	12/21/2015	7.21	6.16	-110	NA	NA	NA	NM	NA
B-25	3/23/2016	6.78	0.00	-23	NA	NA	NA	NM	NA
B-25	6/22/2016	7.58	0.07	-133	NA	NA	NA	NM	NA
B-25	9/22/2016	6.77	1.77	-164	0.10 U	0.50 U	165	7.0	NA
B-25	12/8/2016	7.22	0.36	-197.4	NA	NA	NA	NM	NA
B-25	3/21/2017	7.09	0.0	-142	NA	NA	NA	NM	NA
B-25	6/20/2017	7.37	0.0	-132	NA	NA	NA	NM	NA
B-25	9/19/2017	6.75	8.24	-140	0.20 U	0.50 U	160	1.0	NA
B-25	12/12/2017	6.85	2.96	-117	NA	NA	NA	NM	NA
B-25	3/21/2018	6.44	0.60	-89	NA	NA	NA	NM	NA
B-25	6/19/2018	6.91	0.31	-142	NA	NA	NA	NM	NA
B-25	9/17/2018	6.98	0.00	-112	0.20 U	0.50 U	170	2.5	NA
B-25	12/11/2018	6.63	6.21	-100	NA	NA	NA	NM	NA
B-25	3/14/2019	7.04	1.49	-145	NA	NA	NA	NM	NA
B-25	6/18/2019	6.72	0.0	-140	NA	NA	NA	NM	NA
B-25	9/12/2019	6.76	0.0	-118	0.057 U	0.23 J	190	3.5	NA
B-25	12/11/2019	6.94	3.7	-168	NA	NA	NA	NM	NA
B-25	3/24/2020	7.06	0.00	-150	NA	NA	NA	NM	NA
B-25	6/23/2020	7.10	0.71	-159	NA	NA	NA	NM	NA
B-25	9/23/2020	6.71	0.00	-114	0.066 J	0.38 J	190	3.0	NA
B-25	12/14/2020	6.74	0.00	-107	NA	NA	NA	NM	NA
B-25	3/31/2021	6.92	0.48	-114	NA	NA	NA	NM	NA
B-25	6/23/2021	6.79	7.11	-91	NA	NA	NA	NM	NA
B-25	9/13/2021	7.12	4.66	-112	0.057 U	0.22 J	170	3.0	0.20
B-25	12/6/2021	6.84	0.00	-139	NA	NA	NA	NM	NA
B-25	2/9/2022	7.84	0.00	-136	NA	NA	NA	NM	NA
B-25	5/4/2022	6.93	0.00	-125	NA	NA	NA	NM	NA
B-25	8/2/2022	6.85	0.00	-124	0.030 U	0.88 J	140	2.0	0.16
B-25	4/12/2023	6.96	1.59	-146.9	NA	NA	NA	NM	NA
B-25	10/5/2023	6.66	0.39	-118	0.057 UJ	0.30 J	100	>	0.120
B-30	03/29/2010	7.68	10.63	56	NA	NA	NA	0.0	NA
B-30	06/15/2010	7.25	8.37	40	NA	NA	NA	NM	NA
B-30	9/15/2010	7.08	0.73	22	0.90 U	81	170	0.0	NA
B-30	09/29/2011	7.27	0.00	119	0.90 UJ	64 J	160 J	0.0	NA
B-30	9/13/2012	7.15	1.18	12.2	0.90 U	34	160	0.0	NA
B-30	9/26/2013	7.47	0.17	41	0.90 U	20	140	0.0	NA
B-30	9/25/2014	7.86	0.70	-93	0.90 U	21	130	0.0	NA
B-30	9/23/2015	7.99	0.00	-18	0.20 U	24	130	0.0	NA
B-30	9/20/2016	7.47	1.68	23	0.10 U	18.7	118	0.5	NA
B-30	9/20/2017	7.54	1.07	88	0.10 J	17	110	0.0	NA
B-30	9/20/2018	7.04	0.79	89	1.4	20	95	0.0	NA
B-30	9/9/2019	9.47	0.00	-21	0.057 U	3.3	110	0.0	NA
B-30	9/23/2020	7.68	0.03	-8	0.15 J	17	99	0.0	NA
B-31	10/30/2006	6.56	0.03	-53.5	0.5 U	9	NA	4.6	NA
B-31	11/27/2006	6.77	1.54	-102.9	0.60	32	NA	0.2	NA
B-31	12/20/2006	6.60	1.40	-98.3	0.5	14	NA	0.5	NA
B-31	2/6/2007	6.83	1.83	-66.1	1.5	5 U	NA	1.1	NA
B-31	5/8/2007	6.82	0.01	-232.4	0.5 U	5.2	NA	3.2	NA
B-31	7/30/2007	6.76	2.42	-41.4	0.6	5 U	NA	2.6	NA
B-31	11/6/2007 (a)	6.62	2.36	-85.3	0.5	42	NA	2.9	NA
B-31	2/13/2008	6.87	0.05	-114.8	0.5 U	2 U	NA	0.8	NA
B-31	5/6/2008	6.57	0.03	-94.4	0.5 U	2 U	NA	3.3	NA
B-31	8/12/2008	6.41	2.09	48.1	0.9	10	NA	4.6	NA
B-31	11/11/2008	NM	NM	NM	0.2 U	34	NA	1.8	NA
B-31	2/24/2009	7.17	0.12	-63.8	0.2 U	27.7	NA	1.5	NA
B-31	5/12/2009	6.98	0.69	-38.03	0.24	56.4	NA	3.0	NA
B-31	8/11/2009	6.56	0.21	-48.2	0.90 U	150	NA	NM	NA
B-31	11/10/2009	7.31	0.08	-54.1	0.90 U	94	NA	2.1	NA

Table 4
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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
B-31	03/29/2010	5.93	0.00	26	0.90 U	16	NA	1.0	NA
B-31	06/14/2010	6.36	0.00	45	0.90 U	12	NA	3.0	NA
B-31	9/16/2010	6.36	0.39	-133	0.90 U	9.6	360	4.6	NA
B-31	12/16/2010	6.25	0.00	191	NA	NA	NA	NM	NA
B-31	3/10/2011	6.44	0.00	-13	NA	NA	NA	NM	NA
B-31	6/15/2011	6.95	0.00	-40	NA	NA	NA	NM	NA
B-31	09/29/2011	6.49	0.00	-72	0.90 UJ	6.1 J	310 J	4.0	NA
B-31	12/8/2011	6.21	1.55	-4	NA	NA	NA	NM	NA
B-31	4/4/2012	6.44	3.49	11	NA	NA	NA	NM	NA
B-31	6/12/2012	6.33	0.80	1.3	NA	NA	NA	NM	NA
B-31	9/12/2012	6.32	0.53	-44.7	0.90 U	5.7 J	330	5.2	NA
B-31	12/10/2012	6.42	0.12	217	NA	NA	NA	NM	NA
B-31	3/13/2013	6.61	0.00	-78	NA	NA	NA	NM	NA
B-31	6/10/2013	7.54	0.29	-63.8	NA	NA	NA	NM	NA
B-31	9/26/2013	6.69	0.00	-84	9.00 U	12 U	320	1.6	NA
B-31	12/5/2013	7.32	1.20	-49.3	NA	NA	NA	NM	NA
B-31	3/5/2014	6.63	0.37	51	NA	NA	NA	NM	NA
B-31	6/11/2014	6.70	9.26	-87	NA	NA	NA	NM	NA
B-31	9/26/2014	6.87	0.00	-192	0.90 U	1.2 U	270	1.5	NA
B-31	12/16/2014	6.56	0.31	7	NA	NA	NA	NM	NA
B-31	3/25/2015	6.77	0.74	17	NA	NA	NA	NM	NA
B-31	6/17/2015	6.77	0.00	-140	NA	NA	NA	NM	NA
B-31	9/23/2015	6.98	0.00	-157	0.20 U	1.2 U	280	2.0	NA
B-31	12/22/2015	6.41	0.00	5	NA	NA	NA	NM	NA
B-31	3/23/2016	6.45	0.0	16	NA	NA	NA	NM	NA
B-31	6/22/2016	7.15	0.14	-89	NA	NA	NA	NM	NA
B-31	9/20/2016	6.62	2.87	-98	0.10 U	0.50 U	253	7.0	NA
B-31	12/7/2016	6.24	0.0	149	NA	NA	NA	NM	NA
B-31	3/21/2017	6.65	1.87	50	NA	NA	NA	NM	NA
B-31	6/21/2017	6.89	0.00	-12	NA	NA	NA	NM	NA
B-31	9/20/2017	6.65	6.1	-86	0.055 J	1.6	200	3.5	NA
B-31	12/11/2017	6.32	0.0	96	NA	NA	NA	NM	NA
B-31	3/20/2018	6.11	0.52	26	NA	NA	NA	NM	NA
B-31	6/18/2018	6.34	0.82	-20.2	NA	NA	NA	NM	NA
B-31	9/19/2018	6.59	0.17	-115	0.20 U	0.33 J	230	5.5	NA
B-31	12/11/2018	6.77	1.77	-212	NA	NA	NA	NM	NA
B-31	3/13/2019	6.55	6.26	67	NA	NA	NA	NM	NA
B-31	6/17/2019	6.51	0.00	-102	NA	NA	NA	NM	NA
B-31	9/10/2019	6.98	0.00	-104	0.057 U	0.56	260	1.5	NA
B-31	12/10/2019	6.68	0.00	-216	NA	NA	NA	NM	NA
B-31	3/24/2020	6.52	0.11	-166	NA	NA	NA	NM	NA
B-31	6/23/2020	6.95	7.46	-89	NA	NA	NA	NM	NA
B-31	9/21/2020	7.85	1.1	-121	0.065 J	0.63	290	4.5	NA
B-31	12/15/2020	6.75	0.00	-12	NA	NA	NA	NM	NA
B-31	3/29/2021	6.50	0.69	-24	NA	NA	NA	NM	NA
B-31	6/23/2021	6.54	1.38	-223.9	NA	NA	NA	NM	NA
B-31	9/13/2021	7.05	2.50	-88	0.057 U	0.35 J	270	2.5	0.64
B-31	12/7/2021	6.26	0.00	43	NA	NA	NA	NM	NA
B-31	2/8/2022	6.54	0.00	-135	NA	NA	NA	NM	NA
B-31	5/4/2022	6.44	0.02	16	NA	NA	NA	NM	NA
B-31	8/2/2022	6.84	0.09	-54	0.030 U	2.9	260	4.5	0.42
B-31	4/12/2023	6.44	2.90	-13.1	NA	NA	NA	NM	NA
B-31	10/4/2023	6.64	4.04	-68.0	0.80 U	0.64 J	240	>	0.410
B-34	10/31/2006	6.54	1.35	-65.4	0.7	10	NA	5.0	NA
B-34	11/27/2006	6.63	1.81	-129.2	0.5 U	11	NA	6.0	NA
B-34	12/21/2006	8.51	1.34	-127.4	0.5 U	44	NA	4.2	NA
B-34	2/8/2007	6.80	1.03	-87.4	0.8	19	NA	3.8	NA
B-34	5/9/2007	6.59	1.69	-88	12	33	NA	7.0	NA
B-34	8/1/2007	6.92	2.28	-69.9	0.5 U	5 U	NA	2.8	NA
B-34	11/6/2007 (a)	6.89	0.03	-63.3	0.5	16	NA	4.2	NA
B-34	2/14/2008	6.89	0.0	-137.3	1.0	57	NA	5.4	NA
B-34	5/7/2008	6.68	0.03	135	1.1	15	NA	4.0	NA
B-34	8/12/2008	6.66	1.11	-42.1	0.5 U	2 U	NA	2.1	NA
B-34	11/11/2008	6.85	0.36	NM	0.2 U	0.4 U	NA	2.2	NA
B-34	2/24/2009	6.72	0.02	-87.2	0.2 U	17.7	NA	2.0	NA
B-34	5/11/2009	6.69	0.11	-65.07	0.2 U	9.74	NA	2.0	NA
B-34	8/12/2009	7.17	0.03	-94.9	0.90 U	1.2 U	NA	3.0	NA
B-34	11/11/2009	6.60	0.00	-107.5	0.90 U	1.2 U	NA	4.0	NA
B-34	03/23/2010	6.16	0.00	-92	0.90 U	110	NA	3.6	NA
B-34	06/11/2010	6.42	0.00	109	0.90 U,U	51	NA	2.6	NA
B-34	9/15/2010	6.19	2.41	104	0.90 U	1.2 U	320	4.0	NA
B-34	12/21/2010	6.43	4.87	-84	NA	NA	NA	NM	NA
B-34	3/11/2011	6.63	0.00	-47	NA	NA	NA	NM	NA
B-34	6/16/2011	7.06	0.00	-82	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
B-34	10/06/2011	6.62	0.00	-81	0.90 U	1.2 U	470	1.1	NA
B-34	12/5/2011	6.61	1.92	-101	NA	NA	NA	NM	NA
B-34	4/3/2012	6.76	2.53	-110	NA	NA	NA	NM	NA
B-34	6/14/2012	6.58	0.93	-78.8	NA	NA	NA	NM	NA
B-34	9/13/2012	6.25	3.93	-180	0.90 U	1.2 U	430	1.6	NA
B-34	12/12/2012	6.32	0.91	-3	NA	NA	NA	NM	NA
B-34	3/14/2013	6.66	0.22	-117.3	NA	NA	NA	NM	NA
B-34	6/11/2013	7.22	0.33	-85	NA	NA	NA	NM	NA
B-34	9/26/2013	6.60	0.00	-74	9.00 U	12 U	470	2.0	NA
B-34	12/4/2013	7.34	0.92	-81.4	NA	NA	NA	NM	NA
B-34	3/5/2014	6.43	0.00	38	NA	NA	NA	NM	NA
B-34	6/9/2014	6.73	0.00	-84	NA	NA	NA	NM	NA
B-34	9/23/2014	6.68	0.00	-79	0.90 U	1.2 U	500	2.0	NA
B-34	12/15/2014	6.61	0.00	-109	NA	NA	NA	NM	NA
B-34	3/25/2015	6.73	0.77	-41	NA	NA	NA	NM	NA
B-34	6/16/2015	6.59	0.00	-89	NA	NA	NA	NM	NA
B-34	9/24/2015	6.45	0.00	-141	0.20 U	1.2 U	500	2.5	NA
B-34	12/21/2015	6.42	0.00	-131	NA	NA	NA	NM	NA
B-34	3/23/2016	6.77	0.00	-170	NA	NA	NA	NM	NA
B-34	6/22/2016	7.06	0.00	-104	NA	NA	NA	NM	NA
B-34	9/22/2016	6.66	1.71	-110	0.10 U	0.50 U	485	5.5	NA
B-34	12/7/2016	6.48	0.00	-113	NA	NA	NA	NM	NA
B-34	3/21/2017	6.48	1.82	-70	NA	NA	NA	NM	NA
B-34	6/22/2017	7.13	2.62	-139	NA	NA	NA	NM	NA
B-34	9/20/2017	8.78	1.77	-94	0.082 J	0.42 J	440	3.5	NA
B-34	12/11/2017	6.45	0.00	-102	NA	NA	NA	NM	NA
B-34	3/21/2018	6.16	0.75	1.04	NA	NA	NA	NM	NA
B-34	6/19/2018	6.52	0.20	-97	NA	NA	NA	NM	NA
B-34	9/18/2018	6.39	0.08	-98	0.20 U	0.32 J	430	7.0	NA
B-34	12/10/2018	6.39	7.04	-88	NA	NA	NA	NM	NA
B-34	3/14/2019	6.86	0.00	-156	NA	NA	NA	NM	NA
B-34	6/18/2019	6.45	0.00	-138	NA	NA	NA	NM	NA
B-34	9/10/2019	6.52	0.00	-111	0.057 U	6.7	490	2.0	NA
B-34	12/11/2019	7.22	0.00	-109	NA	NA	NA	NM	NA
B-34	3/23/2020	6.67	0.00	-197	NA	NA	NA	NM	NA
B-34	6/24/2020	6.52	0.83	-134	NA	NA	NA	NM	NA
B-34	9/22/2020	7.34	0.00	-224	0.074 J	0.46 J	630	2.5	NA
B-34	12/14/2020	6.57	4.23	-125	NA	NA	NA	NM	NA
B-34	3/30/2021	6.76	3.42	-150	NA	NA	NA	NM	NA
B-34	6/23/2021	6.61	0.29	-214.9	NA	NA	NA	NM	NA
B-34	9/14/2021	7.14	0.00	-123	0.057 U	0.29 J	520	2.0	0.57
B-34	12/7/2021	6.69	0.00	-44	NA	NA	NA	NM	NA
B-34	2/9/2022	7.29	0.00	-87	NA	NA	NA	NM	NA
B-34	5/4/2022	6.59	0.00	-93	NA	NA	NA	NM	NA
B-34	8/3/2022	6.67	0.00	-131	0.030 UJ	0.80 U	450	3.5	0.64
B-34	4/12/2023	6.97	2.13	-142.1	NA	NA	NA	NM	NA
B-34	10/3/2023	6.61	0.57	-104	0.057 U	0.13 U	360	NM	0.480
E-20	03/30/2010	6.91	11.13	75	NA	NA	NA	NM	NA
E-20	06/15/2010	6.90	0.00	36	NA	NA	NA	NM	NA
E-21	03/30/2010	5.65	8.29	140	NA	NA	NA	0.5	NA
E-21	06/15/2010	6.27	0.00	-22	NA	NA	NA	NM	NA
E-21	9/16/2010	6.43	0.21	-143	0.90 U	21	280	3.5	NA
E-21	12/16/2010	6.16	5.97	60	NA	NA	NA	NM	NA
E-21	3/10/2011	6.21	0.59	121	NA	NA	NA	NM	NA
E-21	6/15/2011	6.50	4.39	22	NA	NA	NA	NM	NA
E-21	09/29/2011	6.85	6.95	125	0.90 UJ	15 J	280 J	0.1	NA
E-21	12/7/2011	6.36	3.02	17	NA	NA	NA	NM	NA
E-21	4/4/2012	6.31	2.89	171	NA	NA	NA	NM	NA
E-21	6/14/2012	6.57	0.55	-108.5	NA	NA	NA	NM	NA
E-21	9/13/2012	6.50	5.61	33.8	0.26 J	10	270	0.2	NA
E-21	12/10/2012	5.94	0.36	199.6	NA	NA	NA	NM	NA
E-21	3/13/2013	6.39	0.00	-94	NA	NA	NA	NM	NA
E-21	6/10/2013	7.08	0.32	40.9	NA	NA	NA	NM	NA
E-21	9/27/2013	6.13	0.00	30	9.70	42	130	1.2	NA
E-21	12/5/2013	6.00	0.00	44	NA	NA	NA	NM	NA
E-21	3/5/2014	6.37	0.00	192	NA	NA	NA	NM	NA
E-21	6/11/2014	6.60	0.00	24	NA	NA	NA	NM	NA
E-21	9/26/2014	6.45	0.12	-110	0.90 U	25	290	2.5	NA
E-21	12/16/2014	6.17	2.13	168	NA	NA	NA	NM	NA
E-21	3/25/2015	6.49	0.70	145	NA	NA	NA	NM	NA
E-21	6/17/2015	6.44	0.00	-36	NA	NA	NA	NM	NA
E-21	9/24/2015	6.94	0.00	-120	0.22	12	300	1.5	NA
E-21	12/22/2015	6.17	0.00	141	NA	NA	NA	NM	NA
E-21	3/23/2016	6.71	0.00	159	NA	NA	NA	NM	NA
E-21	6/22/2016	7.09	0.0	-30	NA	NA	NA	NM	NA

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E-21	9/20/2016	6.66	1.34	199	0.10 U	5.6	281	1.5	NA
E-21	12/7/2016	6.40	0.10	129	NA	NA	NA	NM	NA
E-21	3/22/2017	6.79	0.0	97	NA	NA	NA	NM	NA
E-21	6/21/2017	7.70	3.23	-36	NA	NA	NA	NM	NA
E-21	9/19/2017	8.59	1.40	-100	0.20 U	9.4	280	2.0	NA
E-21	3/19/2018	5.31	0.88	128	NA	NA	NA	NM	NA
E-21	9/17/2018	6.49	0.15	-123	0.20 U	19	270	4.0	NA
E-21	3/13/2019	6.65	0.00	119	NA	NA	NA	NM	NA
E-21	9/10/2019	6.98	0.00	-114	0.057 U	24	290	4.0	NA
E-21	3/23/2020	6.21	0.12	5	NA	NA	NA	NM	NA
E-21	9/21/2020	6.25	0.00	-57	0.12 J	37	170	1.0	NA
E-21	3/29/2021	7.10	0.89	-202	NA	NA	NA	NM	NA
E-21	9/13/2021	6.68	0.00	-20	0.057 U	25	210	2.5	0.16
E-21	8/2/2022	6.46	0.00	-86	0.069 J	4.9	210	4.5	0.19
E-21	10/3/2023	6.23	0.00	-28	0.10 J	26	270	>	0.230
E-22	6/14/2011	7.46	0.00	-170	NA	NA	NA	NM	NA
E-22	10/03/2011	6.90	4.40	-104	0.90 U	100	380	1.4	NA
E-22	12/7/2011	6.84	0.00	-136	NA	NA	NA	NM	NA
E-22	4/2/2012	7.01	0.00	-182	NA	NA	NA	NM	NA
E-22	9/11/2012	7.72	0.00	-269	0.90 U	89	420	1.8	NA
E-22	12/11/2012	6.72	0.07	2.5	NA	NA	NA	NM	NA
E-22	3/13/2013	7.22	0.00	-166	NA	NA	NA	NM	NA
E-22	6/10/2013	7.03	0.62	-90	NA	NA	NA	NM	NA
E-22	9/24/2013	7.41	7.33	-104.1	0.90 U	45	440	2.4	NA
E-22	12/2/2013	7.68	0.75	-70.2	NA	NA	NA	NM	NA
E-22	3/4/2014	7.27	0.00	-148	NA	NA	NA	NM	NA
E-22	6/10/2014	7.19	0.00	-94	NA	NA	NA	NM	NA
E-22	9/22/2014	7.20	0.00	-106	0.90 U	4.1	540	1.0	NA
E-22	12/17/2014	7.10	0.07	-89	NA	NA	NA	NM	NA
E-22	3/25/2015	6.85	0.00	-99	NA	NA	NA	NM	NA
E-22	6/16/2015	7.00	0.00	-193	NA	NA	NA	NM	NA
E-22	9/22/2015	7.84	0.00	-238	0.20 U	1.2 U	520	1.0	NA
E-22	11/19/2015	7.16	0.00	-103	NA	NA	NA	NM	NA
E-22	12/21/2015	6.96	0.21	36	NA	NA	NA	NM	NA
E-22	3/23/2016	6.69	0.0	5	NA	NA	NA	NM	NA
E-22	6/21/2016	7.48	0.00	-290	NA	NA	NA	NM	NA
E-22	9/21/2016	7.05	1.37	-321	1.0 UJ	86.9	771	0.0	NA
E-22	12/6/2016	7.00	0.0	-77	NA	NA	NA	NM	NA
E-22	3/20/2017	6.89	0.0	-209	NA	NA	NA	NM	NA
E-22	6/20/2017	6.18	3.40	-235	NA	NA	NA	NM	NA
E-22	9/25/2017	10.19	4.10	-340	0.20 U	170	420	0.0	NA
E-22	12/13/2017	6.65	0.00	-269	NA	NA	NA	NM	NA
E-22	3/19/2018	7.28	0.42	-211	NA	NA	NA	NM	NA
E-22	6/16/2018	6.76	0.96	-263.7	NA	NA	NA	NM	NA
E-22	9/19/2018	6.51	0.04	-281	5.7 UJ	1800	700	0.5	NA
E-22	12/11/2018	7.19	1.60	-325	NA	NA	NA	NM	NA
E-22	3/13/2019	7.35	0.00	-178	NA	NA	NA	NM	NA
E-22	6/17/2019	6.68	0.00	-357	NA	NA	NA	NM	NA
E-22	9/10/2019	8.21	0.00	-342	5.7 U	250	730	0.0	NA
E-22	12/10/2019	7.37	0.05	-360	NA	NA	NA	NM	NA
E-22	3/23/2020	7.19	0.00	-387	NA	NA	NA	NM	NA
E-22	6/23/2020	7.32	0.96	-373	NA	NA	NA	NM	NA
E-22	9/22/2020	7.80	0.00	8	1.2	590	66	0.5	NA
E-22	12/15/2020	8.10	0.00	-297	NA	NA	NA	NM	NA
E-22	3/29/2021	7.00	17.28	-349	NA	NA	NA	NM	NA
E-22	6/22/2021	7.16	1.33	-334.3	NA	NA	NA	NM	NA
E-22	9/13/2021	7.62	8.17	-370	0.57 U	120	370	0.0	0.0050 J
E-22	12/6/2021	6.74	0.00	-35	NA	NA	NA	NM	NA
E-22	2/8/2022	6.97	0.00	-178	NA	NA	NA	NM	NA
E-22	5/3/2022	7.40	0.00	-395	NA	NA	NA	NM	NA
E-22	8/1/2022	7.24	0.47	-368	1.0	330	590	0.0	0.014
E-22	4/11/2023	7.23	0.24	-321.8	NA	NA	NA	NM	NA
E-22	10/4/2023	7.38	3.29	-371	0.860 J	390	440	0.63	0.011
FW-3	8/26/2003	NM	NM	NM	NA	NA	NA	NM	NA
FW-3	11/3/2003	7.60	2.27	NM	NA	NA	NA	NM	NA
FW-3	1/28/2004	6.85	2.40	NM	NA	NA	NA	NM	NA
FW-3	5/5/2004	7.16	3.25	NM	NA	NA	NA	NM	NA
FW-3	8/11/2004	6.75	9.27	-295	NA	NA	NA	NM	NA
FW-3	10/28/2004	6.87	6.58	-301	NA	NA	NA	NM	NA
FW-3	2/7/2005	7.14	2.92	-361	NA	NA	NA	NM	NA
FW-3	5/10/2005	6.85	3.43	-340	NA	NA	NA	NM	NA
FW-3	8/2/2005	7.21	4.77	-280	NA	NA	NA	NM	NA
FW-3	11/7/2005	6.97	0.06	-400.5	10.0 U	905	136	NM	NA
FW-3	2/7/2006	6.76	0.00	-351.9	4.00 U	891	53.8	1.7	NA
FW-3	5/1/2006	7.01	0.45	-325.6	NA	NA	NA	NM	NA

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FW-3	8/4/2006	6.84	2.63	-357.8	40.0 UJ	1110	NA	0.5	NA
FW-3	10/31/2006	7.65	0.64	-245.7	91	1700	NA	0.6	NA
FW-3	11/28/2006	7.41	0.52	-325.5	40	980	NA	0.4	NA
FW-3	12/18/2006	7.50	0.51	-317.8	41	250	NA	NM	NA
FW-3	2/5/2007	7.29	1.81	-327	7.9	470	NA	1.4	NA
FW-3	5/8/2007	7.05	0.02	-356.1	160	290	NA	1.2	NA
FW-3	7/30/2007	7.04	0.73	-299.2	0.5 U	1340	NA	0.0	NA
FW-3	11/5/2007	6.54	2.42	-193.4	38	990	NA	0.6	NA
FW-3	2/13/2008	7.36	0.02	-322.8	1.5	550	NA	0.6	NA
FW-3	5/6/2008	7.29	0.02	-6	NA	NA	NA	NM	NA
FW-3	8/12/2008	6.70	0.09	-231.7	8.4	800	NA	0.2	NA
FW-3	11/13/2008	7.28	0.61	-199.3	4.85	630	NA	1.1	NA
FW-3	2/25/2009	6.88	0.03	-287.9	0.5	137	NA	1.2	NA
FW-3	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
FW-3	8/11/2009	7.30	0.09	-236.1	11	1000	NA	1.2	NA
FW-3	11/13/2009	8.32	0.07	-214.7	4.5 U	590	NA	1.8	NA
FW-3	03/23/2010	6.32	0.00	-244	0.9 U	100	NA	1.0	NA
FW-3	06/08/2010	6.53	1.83	-231	0.9 U	24 J	NA	0.2	NA
FW-3	9/14/2010	5.93	8.56	353	0.9 U	1400	81	1.0	NA
FW-3	09/27/2011	5.95	1.20	-78	2.5	1500	86	0.1	NA
FW-3	9/10/2012	6.72	0.28	-338	0.9 U	1300	190	0.8	NA
FW-3	9/25/2013	6.75	10.07	-197.8	9 U	1400	100	0.1	NA
FW-3	9/24/2014	6.84	0.00	-293	1.3	1100	79	1.0	NA
FW-3	9/22/2015	7.43	0.00	-379	0.20 U	1600	290	1.0	NA
FW-3	11/19/2015	8.36	8.20	-208.5	NA	NA	NA	NM	NA
FW-3	9/21/2016	6.16	1.95	-231	10 U	1810	82.1	1.0	NA
FW-3	9/18/2017	8.18	1.95	-278	20 U	2000	100	1.0	NA
FW-3	9/19/2018	7.27	1.74	-340	200 U	3100	230	0.0	NA
FW-3	9/9/2019	7.41	0.10	-328	68 J	1700	190	0.0	NA
FW-3	9/22/2020	6.46	2.31	-196	7.0 J	1500	110	0.5	NA
FW-3	9/14/2021	7.31	8.61	-341	5.7 U	1600	170	0.0	0.0049 J
FW-3	8/2/2022	6.54	1.10	-190	0.030 U	680	82	0.0	0.0034 J
FW-3	10/4/2023	7.43	4.43	-240	18 J	1900	110	0.27	0.0023 U
FW-4	8/26/2003	7.24	NM	NM	NA	NA	NA	NM	NA
FW-4	11/3/2003	7.34	2.90	NM	NA	NA	NA	NM	NA
FW-4	1/28/2004	6.69	3.27	NM	NA	NA	NA	NM	NA
FW-4	5/6/2004	6.84	0.63	NM	NA	NA	NA	NM	NA
FW-4	8/11/2004	6.72	11.28	-551	NA	NA	NA	NM	NA
FW-4	10/28/2004	6.46	260	-336	NA	NA	NA	NM	NA
FW-4	2/7/2005	6.68	3.28	-382	NA	NA	NA	NM	NA
FW-4	5/10/2005	6.82	3.11	-356	NA	NA	NA	NM	NA
FW-4	8/2/2005	7.44	4.85	-368	NA	NA	NA	NM	NA
FW-4	11/7/2005	7.06	0.02	-394.2	NA	NA	NA	NM	NA
FW-4	2/7/2006	5.92	0.53	-88.2	NA	NA	NA	NM	NA
FW-4	5/1/2006	6.33	1.87	-237.4	NA	NA	NA	NM	NA
FW-4	2/6/2007	7.21	0.79	-313.4	NA	NA	NA	NM	NA
FW-4	5/8/2007	6.96	0.01	-364.4	NA	NA	NA	0.8	NA
FW-4	7/30/2007	7.07	1.28	-392.8	NA	NA	NA	0.0	NA
FW-4	11/5/2007	6.45	2.43	-28.8	NA	NA	NA	NM	NA
FW-4	2/13/2008	6.70	0.01	-310	NA	NA	NA	NM	NA
FW-4	5/6/2008	6.95	0.13	-386.8	NA	NA	NA	NM	NA
FW-4	8/12/2008	6.64	0.17	-266.3	NA	NA	NA	NM	NA
FW-4	11/11/2008	NM	NM	NM	NA	NA	NA	NM	NA
FW-4	2/27/2009	7.35	0.08	-321.5	0.22	211	NA	0.0	NA
FW-4	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
FW-4	8/11/2009	7.67	0.04	-311.8	18 U	200	NA	0.0	NA
FW-4	03/23/2010	7.09	0.00	-295	13	680	NA	NM	NA
FW-4	9/14/2010	6.78	0.16	-407	0.9 U	400	660	0.2	NA
FW-4	09/29/2011	6.13	0.79	-300	0.9 UJ	1300 J	210 J	1.4	NA
FW-4	9/10/2012	8.36	0.04	-82.5	0.9 UJ	1400	390	1.0	NA
FW-4	9/25/2013	6.84	0.00	-322	9 U	1300	320	0.0	NA
FW-4	9/24/2014	7.04	0.00	-375	0.9 U	1200	380	1.5	NA
FW-4	9/22/2015	7.46	0.00	-397	0.20 U	2800 J	360	2.0	NA
FW-4	11/19/2015	6.59	0.49	-249.4	NA	NA	NA	NM	NA
FW-4	9/21/2016	6.92	1.11	-415	10 U	1280	416	1.5	NA
FW-4	9/20/2017	10.18	1.32	-353	20 U	1100	210	2.0	NA
FW-4	9/19/2018	7.08	1.59	-347	100 U	1500	210	0.0	NA
FW-4	9/9/2019	7.23	0.08	-342	29 U	1500	190	0.0	NA
FW-4	9/22/2020	6.48	0.00	-331	7.9 J	1200	190	0.5	NA
FW-4	9/14/2021	7.31	1.86	-355	5.7 U	1200	290	0.0	0.0054 J
FW-4	8/3/2022	7.23	0.29	-382	4.2	800	270	0.0	0.0046 J
FW-4	10/4/2023	6.31	0.61	-222	0.57 U	1900	91	1.00	0.0120

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FW-5R	09/27/2011	6.53	0.00	-77	0.9 U	1.2 U	340	1.6	NA
FW-5R	12/8/2011	6.65	0.95	-106	NA	NA	NA	NM	NA
FW-5R	4/4/2012	6.78	0.00	-118	NA	NA	NA	NM	NA
FW-5R	6/13/2012	6.57	0.25	-76.7	NA	NA	NA	NM	NA
FW-5R	9/11/2012	7.10	0.00	-155	0.9 UJ	1.2 U	360	3.0	NA
FW-5R	12/13/2012	6.67	0.87	-67.3	NA	NA	NA	NM	NA
FW-5R	3/12/2013	6.65	0.02	-69.4	NA	NA	NA	NM	NA
FW-5R	6/12/2013	1.63	2.11	155	NA	NA	NA	NM	NA
FW-5R	9/25/2013	6.86	5.08	-122.5	0.9 U	1.2 U	320	1.0	NA
FW-5R	12/4/2013	6.78	3.84	-148	NA	NA	NA	NM	NA
FW-5R	3/6/2014	6.72	0.00	-122	NA	NA	NA	NM	NA
FW-5R	6/9/2014	6.96	0.04	-100	NA	NA	NA	NM	NA
FW-5R	9/24/2014	7.43	0.00	-260	0.9 U	1.2 U	320	0.5	NA
FW-5R	12/15/2014	6.62	0.54	-87	NA	NA	NA	NM	NA
FW-5R	3/24/2015	6.93	0.79	-82	NA	NA	NA	NM	NA
FW-5R	6/15/2015	6.89	0.00	-89	NA	NA	NA	NM	NA
FW-5R	9/22/2015	6.67	0.00	-149	0.20 U	1.2 U	300	2.0	NA
FW-5R	11/19/2015	6.78	0.43	-81.7	NA	NA	NA	NM	NA
FW-5R	12/22/2015	6.64	0.0	-104	NA	NA	NA	NM	NA
FW-5R	3/22/2016	6.78	0.0	-43	NA	NA	NA	NM	NA
FW-5R	6/22/2016	7.23	0.17	-133	NA	NA	NA	NM	NA
FW-5R	9/21/2016	6.62	1.36	-177	0.10 U	0.50 U	293	0.5	NA
FW-5R	12/8/2016	6.67	0.00	-119	NA	NA	NA	NM	NA
FW-5R	3/21/2017	6.88	0.0	-131	NA	NA	NA	NM	NA
FW-5R	6/22/2017	6.98	0.00	-78	NA	NA	NA	NM	NA
FW-5R	9/18/2017	7.44	1.43	-105	0.059 J	0.50	260	1.5	NA
FW-5R	12/12/2017	6.46	0.00	-120	NA	NA	NA	NM	NA
FW-5R	3/19/2018	8.43	0.00	-20	NA	NA	NA	NM	NA
FW-5R	6/18/2018	6.58	1.14	-73.6	NA	NA	NA	NM	NA
FW-5R	9/19/2018	6.78	0.00	-210	0.20 U	0.19 J	290	6.0	NA
FW-5R	12/10/2018	6.47	1.18	-105	NA	NA	NA	NM	NA
FW-5R	3/12/2019	6.89	2.48	-250	NA	NA	NA	NM	NA
FW-5R	6/18/2019	7.00	0.00	-177	NA	NA	NA	NM	NA
FW-5R	9/10/2019	7.18	0.00	-118	0.057 U	0.29 J	290	1.0	NA
FW-5R	12/10/2019	7.38	0.00	-162	NA	NA	NA	NM	NA
FW-5R	3/24/2020	6.97	0.00	-241	NA	NA	NA	NM	NA
FW-5R	6/23/2020	6.98	0.62	-138	NA	NA	NA	NM	NA
FW-5R	9/21/2020	6.55	0.00	-134	0.087 J	0.56	290	3.5	NA
FW-5R	12/14/2020	7.05	0.19	-82	NA	NA	NA	NM	NA
FW-5R	3/30/2021	6.92	0.58	-106	NA	NA	NA	NM	NA
FW-5R	6/23/2021	6.78	0.00	-81	NA	NA	NA	NM	NA
FW-5R	9/14/2021	7.28	0.69	-152	0.057 U	0.23 J	270	1.0	0.24
FW-5R	12/7/2021	6.62	0.00	-82	NA	NA	NA	NM	NA
FW-5R	2/9/2022	6.82	0.00	-90	NA	NA	NA	NM	NA
FW-5R	5/4/2022	6.86	0.00	-177	NA	NA	NA	NM	NA
FW-5R	8/3/2022	6.94	0.00	-110	0.030 U	0.80 U	260	1.0	0.19
FW-5R	4/12/2023	6.77	0.41	-79.8	NA	NA	NA	NM	NA
FW-5R	10/4/2023	7.01	6.51	-133.0	0.230 U	0.51 U	270	>	0.240
G-1	03/25/2010	6.17	0.00	90	NA	NA	NA	0.1	NA
G-1	06/11/2010	6.58	0.42	54	NA	NA	NA	NM	NA
G-8	5/10/2005	6.90	0.17	-16.5	NA	NA	NA	NM	NA
G-8	8/2/2005	8.16	5.05	-399	NA	NA	NA	NM	NA
G-8	11/9/2005	7.11	1.62	-375.5	2.00 UJ	84.1	685	NM	NA
G-8	2/7/2006	7.00	0.02	-365.5	4.00 U	865	699	NM	NA
G-8	5/1/2006	7.35	0.17	-349.1	10.0 U	304	930	0.4	NA
G-8	8/4/2006	7.42	2.20	-379.5	10.0 UJ	20.1	NA	0.8	NA
G-8	11/1/2006	7.51	0.57	-354.1	26	51	NA	0.5	NA
G-8	11/28/2006	6.76	0.73	-174.5	6.9	205	NA	2.0	NA
G-8	12/19/2006	7.15	0.91	-167.5	21	103	NA	0.8	NA
G-8	2/7/2007	7.45	0.71	-313.5	26	110	NA	0.8	NA
G-8	5/9/2007	7.40	0.79	-296.5	NA	NA	NA	0.8	NA
G-8	7/30/2007	7.34	1.10	-259.8	0.5 U	5 U	NA	0.5	NA
G-8	11/5/2007	7.31	0.68	-340	3	7	NA	0.8	NA
G-8	2/14/2008	7.15	0.00	-341.2	1.9	600	NA	0.5	NA
G-8	5/6/2008	7.29	0.03	-392.1	5.8	23	NA	0.6	NA
G-8	8/12/2008	7.25	0.74	-328.5	8.6	28	NA	1.2	NA
G-8	11/12/2008	NM	NM	NM	0.2 U	92.4	NA	0.6	NA
G-8	2/25/2009	7.40	0.02	-314.7	0.2 U	109	NA	0.3	NA
G-8	5/13/2009	7.22	0.16	-270.3	0.2 U	57.2	NA	0.2	NA
G-8	8/14/2009	7.14	0.05	-299.2	0.90 U	19	NA	0.0	NA
G-8	11/12/2009	9.01	0.09	-241.3	0.90 U	73	NA	0.2	NA
G-8	03/24/2010	6.54	0.00	2.33	0.90 U	230	NA	0.2	NA
G-8	06/08/2010	7.04	3.50	-353	0.90 U	180	NA	0.0	NA
G-8	9/14/2010	6.92	2.73	375	0.90 U	19	800	0.0	NA
G-8	12/16/2010	6.88	4.38	-372	NA	NA	NA	NM	NA

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G-8	3/8/2011	7.26	0.00	-302	NA	NA	NA	NM	NA
G-8	6/14/2011	7.10	3.02	-286	NA	NA	NA	NM	NA
G-8	10/06/2011	7.04	0.00	-313	0.90 U	130	510	0.1	NA
G-8	12/6/2011	6.90	0.00	-304	NA	NA	NA	NM	NA
G-8	4/2/2012	7.19	0.00	-340	NA	NA	NA	NM	NA
G-8	6/13/2012	7.09	0.05	-326.5	NA	NA	NA	NM	NA
G-8	9/11/2012	7.10	3.56	-354.2	0.90 U	22	540	0.0	NA
G-8	12/12/2012	7.10	0.09	-169.3	NA	NA	NA	NM	NA
G-8	3/13/2013	7.29	0.07	-332.3	NA	NA	NA	NM	NA
G-8	6/11/2013	8.00	4.48	-327	NA	NA	NA	NM	NA
G-8	9/24/2013	7.21	0.00	-317	9.00 U	110	480	0.0	NA
G-8	12/3/2013	7.00	12.11	-315.2	NA	NA	NA	NM	NA
G-8	3/3/2014	7.08	0.00	-125	NA	NA	NA	NM	NA
G-8	6/10/2014	7.17	0.15	-360	NA	NA	NA	NM	NA
G-8	9/25/2014	7.40	0.15	-416	0.90 U	180	460	0.0	NA
G-8	12/16/2014	7.06	0.70	-239	NA	NA	NA	NM	NA
G-8	3/24/2015	7.17	3.58	-242	NA	NA	NA	NM	NA
G-8	6/16/2015	7.37	0.00	-294	NA	NA	NA	NM	NA
G-8	9/21/2015	7.04	0.00	-365	0.20 U	91	410	0.3	NA
G-8	12/21/2015	7.10	0.00	50	NA	NA	NA	NM	NA
G-8	3/21/2016	7.12	0.0	-164	NA	NA	NA	NM	NA
G-8	6/21/2016	7.79	0.00	-330	NA	NA	NA	NM	NA
G-8	9/22/2016	6.79	1.56	-362	0.10 U	275	430	0.5	NA
G-8	12/8/2016	7.1	0.17	-269.6	NA	NA	NA	NM	NA
G-8	6/20/2017	7.39	2.76	-321	NA	NA	NA	NM	NA
G-8	9/19/2017	7.0	0.78	-320	0.80 U	130	490	0.0	NA
G-8	9/18/2018	6.23	0.04	-264	2.2	150	390	1.0	NA
G-8	9/11/2019	8.54	0.00	-357	0.23 U	220	360	0.0	NA
G-8	9/22/2020	7.19	0.00	-267	0.23 U	280	380	0.0	NA
G-8	9/14/2021	7.61	7.54	-381	0.23 U	330	460	0.0	0.097
G-8	8/1/2022	7.44	1.60	-224	0.041 J	30	570	NM	0.084
G-8	10/3/2023	7.13	19.20	-325	3.0	1100	350	0.23	0.580
G-15	8/2/2005	6.69	4.40	-140	NA	NA	NA	NM	NA
G-15	11/7/2005	6.26	0.48	-221	NA	NA	NA	NM	NA
G-15	2/7/2006	6.50	0.87	-136.6	NA	NA	NA	NM	NA
G-15	5/1/2006	6.70	0.58	-211.1	NA	NA	NA	NM	NA
G-16	8/2/2005	7.00	4.43	-196	NA	NA	NA	NM	NA
G-16	11/7/2005	6.86	0.55	-244.8	NA	NA	NA	NM	NA
G-16	2/7/2006	6.46	0.93	30.3	NA	NA	NA	NM	NA
G-16	5/1/2006	6.68	0.79	-202.3	NA	NA	NA	NM	NA
G-16	9/16/2010	6.30	2.71	16	0.90 U	100	400	1.0	NA
G-16	12/16/2010	6.88	0.00	159	NA	NA	NA	NM	NA
G-16	3/9/2011	6.66	0.00	110	NA	NA	NA	NM	NA
G-16	6/15/2011	6.82	0.00	59	NA	NA	NA	NM	NA
G-16	10/04/2011	6.80	0.00	-52	0.90 U	110	570	1.4	NA
G-16	12/6/2011	6.59	0.00	-87	NA	NA	NA	NM	NA
G-16	4/4/2012	6.85	1.82	52	NA	NA	NA	NM	NA
G-16	6/12/2012	6.73	0.54	37.4	NA	NA	NA	NM	NA
G-16	9/10/2012	6.81	0.32	-46.2	0.90 U	130	530	NM	NA
G-16	12/10/2012	6.43	0.06	241.6	NA	NA	NA	NM	NA
G-16	3/14/2013	6.77	0.64	16.5	NA	NA	NA	NM	NA
G-16	6/11/2013	6.96	0.49	-9.3	NA	NA	NA	NM	NA
G-16	9/27/2013	7.00	0.60	-76	9.00 U	120	540	1.4	NA
G-16	9/25/2014	7.09	0.00	-85	0.90 U	200	550	2.0	NA
G-16	9/23/2015	7.28	0.00	-141	0.20 U	200	610	1.5	NA
G-16	9/22/2016	6.71	1.67	-167	1.0 U	141	509 J	1.5	NA
G-16	9/21/2017	6.89	0.62	-109	20 U	200	360	1.5	NA
G-16	9/18/2018	7.06	0.00	-88	20 U	240	430	2.0	NA
G-16	9/10/2019	7.44	0.00	-110	5.7 U	210	540	2.0	NA
G-16	9/23/2020	8.41	0.00	-109	6.7 J	180	420	2.0	NA
G-17	8/2/2005	6.97	4.42	-285	NA	NA	NA	NM	NA
G-17	11/7/2005	6.75	0.20	-237.1	NA	NA	NA	NM	NA
G-17	2/7/2006	6.66	0.97	-17.5	NA	NA	NA	NM	NA
G-17	5/1/2006	6.95	1.83	-215.7	NA	NA	NA	NM	NA
G-18	8/26/2003	6.01	NM	NM	NA	NA	NA	NM	NA
G-18	11/4/2003	6.04	8.35	NM	NA	NA	NA	NM	NA
G-18	5/6/2004	6.49	4.81	NM	NA	NA	NA	NM	NA
G-18	8/10/2004	6.62	5.11	-25	NA	NA	NA	NM	NA
G-18	10/29/2004	7.32	8.19	-20	NA	NA	NA	NM	NA
G-18	2/10/2005	6.21	3.33	-53	NA	NA	NA	NM	NA
G-18	5/11/2005	6.19	4.38	-97	NA	NA	NA	NM	NA
G-18	8/2/2005	6.94	4.92	-234	NA	NA	NA	NM	NA
G-18	11/7/2005	6.72	0.21	-195.5	1.35	13.4	585	NM	NA
G-18	2/7/2006	6.54	0.94	-17.3	0.800	13.5	207	0.8	NA
G-18	5/1/2006	6.59	0.69	-164.5	0.200 U	1.35	395	2.5	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
G-18	8/4/2006	6.63	1.98	-221.7	0.200 UJ	0.400 U	NA	4.4	NA
G-18	12/18/2006	7.34	0.58	-126.6	0.5 U	9	NA	2.8	NA
G-18	2/6/2007	6.49	1.00	48.7	2.3	7	NA	2.2	NA
G-18	5/8/2007	6.26	0.01	-174.8	0.5 U	21	NA	4.4	NA
G-18	7/30/2007	6.41	1.36	-137.6	0.5 U	11	NA	2.0	NA
G-18	11/5/2007	6.24	2.20	-136	1.2	11	NA	2.0	NA
G-18	2/14/2008	6.36	0.00	-18.9	1.4	2 U	NA	1.0	NA
G-18	5/6/2008	6.51	0.01	75.3	1.0	3	NA	2.0	NA
G-18	8/12/2008	6.05	0.51	98.2	1.0	3	NA	2.4	NA
G-18	11/13/2008	6.38	NM	-231.4	0.3	1.52	NA	1.6	NA
G-18	2/27/2009	6.93	0.04	-18.1	2.59	21.4	NA	1.0	NA
G-18	5/12/2009	7.08	0.16	47.6	1.15	12.1	NA	1.0	NA
G-18	8/12/2009	7.29	0.02	-111.7	0.90 U	1.2	NA	2.0	NA
G-18	11/11/2009	7.14	0.05	-59.4	2.6	6.6	NA	2.6	NA
G-18	03/25/2010	6.26	0.00	57	4.4	28	NA	0.0	NA
G-18	06/14/2010	6.28	0.00	-7	0.9 U	8.6	NA	3.8	NA
G-18	9/15/2010	5.70	2.60	51	0.9 U	1.2 U	370	6.2	NA
G-18	3/7/2011	5.99	0.00	-3	NA	NA	NA	NM	NA
G-18	6/15/2011	6.79	0.00	-163	NA	NA	NA	NM	NA
G-18	10/03/2011	6.38	0.00	-40	0.9 UJ	2.7 J	340 J	1.4	NA
G-18	12/5/2011	6.37	1.34	-61	NA	NA	NA	NM	NA
G-18	4/5/2012	6.39	0.00	-139	NA	NA	NA	NM	NA
G-18	6/13/2012	6.95	0.09	-107.8	NA	NA	NA	NM	NA
G-18	9/12/2012	7.57	0.00	-231	0.9 U	1 J	270	4.6	NA
G-18	12/13/2012	6.22	0.18	30.1	NA	NA	NA	NM	NA
G-18	3/14/2013	6.34	1.05	10	NA	NA	NA	NM	NA
G-18	6/12/2013	7.05	0.50	-103.5	NA	NA	NA	NM	NA
G-18	9/24/2013	6.37	0.00	-218	0.9 U	4.6	140	3.6	NA
G-18	12/3/2013	6.36	4.92	-16.4	NA	NA	NA	NM	NA
G-18	3/5/2014	5.81	0.14	-65	NA	NA	NA	NM	NA
G-18	6/9/2014	6.48	0.00	17	NA	NA	NA	NM	NA
G-18	9/25/2014	6.48	0.00	-192	0.9 U	10	210	0.5	NA
G-18	12/15/2014	6.29	0.08	-59	NA	NA	NA	NM	NA
G-18	3/24/2015	6.72	0.24	15	NA	NA	NA	NM	NA
G-18	6/16/2015	7.14	0.00	-165	NA	NA	NA	NM	NA
G-18	9/22/2015	6.61	1.98	-151	0.20 U	1.3	260	1.5	NA
G-18	12/22/2015	6.77	0.70	44	NA	NA	NA	NM	NA
G-18	3/23/2016	6.60	0.00	53	NA	NA	NA	NM	NA
G-18	6/22/2016	7.24	0.00	-90	NA	NA	NA	NM	NA
G-18	9/22/2016	6.71	6.55	-154	0.03 U	5.0	250	3.0	NA
G-18	12/7/2016	6.25	0.00	46	NA	NA	NA	NM	NA
G-18	3/20/2017	6.49	3.72	41	NA	NA	NA	NM	NA
G-18	6/22/2017	6.73	0.00	11	NA	NA	NA	NM	NA
G-18	9/18/2017	6.53	0.51	-208	2.60	3.4	190	2.0	NA
G-18	3/19/2018	7.26	0.42	79	NA	NA	NA	NM	NA
G-18	9/18/2018	6.54	0.28	-81	0.20 U	5.1	190	1.5	NA
G-18	3/12/2019	6.37	0.00	66	NA	NA	NA	NM	NA
G-18	9/11/2019	8.12	0.00	-139	0.057 U	7.8	230	3.0	NA
G-18	3/24/2020	6.25	0.64	-135	NA	NA	NA	NM	NA
G-18	9/23/2020	7.83	0.00	-95	0.063 J	0.53	230	2.5	NA
G-18	3/30/2021	6.50	0.00	-113	NA	NA	NA	NM	NA
G-18	9/14/2021	6.76	0.00	-118	29 U	1.9	200	2.5	0.12
G-18	2/8/2022	6.27	96.7	-35	NA	NA	NA	NM	NA
G-18	8/3/2022	6.84	8.02	-139	0.034 J	0.86 J	150	2.0	0.092
G-18	4/11/2023	6.81	0.36	-142.1	NA	NA	NA	NM	NA
G-18	10/3/2023	6.82	5.14	-119	0.057 U	0.69	210	>	0.180
G-20	8/26/2003	NM	NM	NM	NA	NA	NA	NM	NA
G-20	11/4/2003	6.61	6.02	NM	NA	NA	NA	NM	NA
G-20	1/29/2004	6.47	7.29	NM	NA	NA	NA	NM	NA
G-20	5/6/2004	6.72	6.18	NM	NA	NA	NA	NM	NA
G-20	8/10/2004	6.65	3.64	-86	NA	NA	NA	NM	NA
G-20	10/29/2004	6.71	6.32	-133	NA	NA	NA	NM	NA
G-20	2/7/2005	6.61	2.95	-147	NA	NA	NA	NM	NA
G-20	5/11/2005	6.57	4.62	-123	NA	NA	NA	NM	NA
G-20	8/2/2005	6.80	4.63	-159	NA	NA	NA	NM	NA
G-20	11/7/2005	6.71	0.47	-157.8	1.00 UJ	2.00	704	NM	NA
G-20	2/7/2006	6.60	0.64	-167.2	0.200 U	5.37	648	6.8	NA
G-20	5/1/2006	6.63	0.56	-148.8	0.200 U	3.54	475	3.0	NA
G-20	8/4/2006	6.67	1.49	-102.2	0.200 U	6.80	NA	5.8	NA
G-20	10/31/2006	6.55	2.31	-10.7	6.8	94	NA	2.0	NA
G-20	11/28/2006	6.71	3.57	-111.6	21	94	NA	2.0	NA
G-20	12/18/2006	6.83	0.91	-107	4.6	56	NA	4.0	NA
G-20	2/8/2007	6.57	1.09	-145.6	2.3	32	NA	5.6	NA
G-20	5/10/2007	6.45	1.61	-52.9	4.4	5.0 U	NA	8.6	NA
G-20	7/30/2007	6.83	1.07	42.9	3.0	5 U	NA	3.6	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
G-20	11/5/2007	7.05	5.79	-89	7.1	5	NA	5.2	NA
G-20	2/14/2008	6.77	0.03	-24.3	0.5 U	46	NA	1.8	NA
G-20	5/6/2008	7.03	0.07	-142.4	0.5 U	19	NA	0.2	NA
G-20	8/12/2008	6.65	0.64	20.4	4.4	5	NA	0.2	NA
G-20	11/12/2008	6.73	0.00	-146.9	1.3	9.06	NA	1.4	NA
G-20	2/26/2009	6.47	0.08	26.4	0.32	4.4	NA	1.5	NA
G-20	5/11/2009	6.35	0.57	115.9	0.31	4.64	NA	1.0	NA
G-20	8/12/2009	7.07	0.04	12.1	0.90 U	4.9	NA	NM	NA
G-20	11/11/2009	7.31	0.06	-65	0.90 U	4.0	NA	1.4	NA
G-20	03/29/2010	6.16	9.25	154	0.90 U	10.0	NA	0.3	NA
G-20	06/09/2010	6.65	1.61	90	0.90 U	7.9	NA	0.0	NA
G-22	5/10/2005	7.01	4.96	-114	NA	NA	NA	NM	NA
G-22	11/7/2005	6.98	0.40	-265.5	NA	NA	NA	NM	NA
G-22	2/7/2006	6.78	0.13	-45.6	NA	NA	NA	NM	NA
G-24	3/26/2010	6.20	4.87	63	NA	NA	NA	0.8	NA
G-24	06/09/2010	6.04	1.70	-145	NA	NA	NA	NM	NA
HC-108	2/15/2008	6.65	0.00	-113.1	NA	NA	NA	4.5	NA
HC-108	5/6/2008	6.77	1.13	-190.5	NA	NA	NA	2.0	NA
HC-108	8/12/2008	4.65	0.03	7.2	NA	NA	NA	NM	NA
HC-108	11/12/2008	NM	NM	NM	NM	NM	NA	NM	NA
HC-108	5/14/2009	6.65	0.19	-40	NM	NM	NA	NM	NA
HC-108	8/14/2009	7.12	0.04	-108.9	0.90 U	28	NA	NM	NA
HC-108	11/12/2009	7.53	0.08	-81	NM	NM	NA	NM	NA
HC-108	3/26/2010	6.00	0.00	-76	NA	NA	NA	4.0	NA
HC-108	06/14/2010	6.27	0.00	-38	NA	NA	NA	NM	NA
HC-111	8/28/2003	NM	NM	NM	NA	NA	NA	NM	NA
HC-111	11/3/2003	6.46	2.81	NM	NA	NA	NA	NM	NA
HC-111	1/29/2004	6.60	4.69	NM	NA	NA	NA	NM	NA
HC-111	5/4/2004	6.48	0.63	NM	NA	NA	NA	NM	NA
HC-111	8/12/2004	7.81	4.66	-143	NA	NA	NA	NM	NA
HC-111	10/29/2004	6.61	7.49	-73	NA	NA	NA	NM	NA
HC-111	2/10/2005	6.69	3.16	-116	NA	NA	NA	NM	NA
HC-111	5/11/2005	7.12	4.02	-116	NA	NA	NA	NM	NA
HC-111	8/4/2005	6.33	4.33	-98	NA	NA	NA	NM	NA
HC-111	11/10/2005	6.59	1.77	-131.6	0.200 U	6.35	385	NM	NA
HC-111	2/9/2006	6.57	1.13	-107.9	0.200 U	133	1250	8.0	NA
HC-111	5/3/2006	6.28	6.20	-51	0.400 U	27.4	745	5.6	NA
HC-111	8/4/2006	6.90	0.02	-139.7	0.200 U	4.26	NA	4.8	NA
HC-111	10/31/2006	7.10	0.79	-171.5	1.2	42	NA	4.6	NA
HC-111	11/28/2006	6.64	0.76	-140.2	16	98	NA	6.0	NA
HC-111	12/18/2006	NM	NM	NM	0.6	240	NA	4.2	NA
HC-111	2/8/2007	6.82	4.98	-74.3	4.4	20	NA	3.0	NA
HC-111	5/7/2007	6.89	1.34	-157.1	6.0	21	NA	8.0	NA
HC-111	7/30/2007	7.05	2.38	-140.8	0.6	5 U	NA	5.5	NA
HC-111	11/8/2007	6.30	1.04	-171.2	0.6	25 U	NA	4.1	NA
HC-111	2/15/2008	6.77	0.01	-119.2	0.5 U	44	NA	4.0	NA
HC-111	5/8/2008	7.11	1.15	-206.7	0.5 U	20	NA	1.6	NA
HC-111	8/12/2008	4.33	0.03	-28.9	6.9	34	NA	1.3	NA
HC-111	11/12/2008	6.59	0.27	-178	0.2 U	1.4	NA	1.0	NA
HC-111	2/27/2009	6.64	0.08	-47.2	0.45	126	NA	2.7	NA
HC-111	5/14/2009	6.63	0.04	-62.4	0.44	154	NA	NM	NA
HC-111	8/14/2009	7.15	0.03	-126	0.90 U	180	NA	1.4	NA
HC-111	11/12/2009	6.82	0.09	-83.6	0.90 U	52	NA	1.2	NA
HC-111	3/26/2010	6.02	0.00	-52	1.40	87	NA	3.4	NA
HC-111	06/14/2010	6.26	0.52	-44	9.50	44	NA	4.0	NA
HC-111	9/16/2010	6.42	5.67	-275	0.90 U	1.2 U	650	3.5	0.99
HC-111	12/17/2010	6.62	4.57	-157	NA	NA	NA	NM	NA
HC-111	3/10/2011	6.53	0.00	-102	NA	NA	NA	NM	NA
HC-111	6/15/2011	7.21	0.00	-153	NA	NA	NA	NM	NA
HC-111	10/03/2011	6.59	0.00	-87	0.90 U	1.2 U	470	2.8	0.55
HC-111	12/6/2011	6.60	1.60	-82	NA	NA	NA	NM	NA
HC-111	4/2/2012	6.65	0.00	-37	NA	NA	NA	NM	NA
HC-111	6/13/2012	6.47	1.65	-67.3	NA	NA	NA	NM	NA
HC-111	9/13/2012	6.59	5.30	-179	0.90 U	1.4	360	4.2	0.58
HC-111	12/13/2012	6.33	1.18	-10.5	NA	NA	NA	NM	NA
HC-111	3/14/2013	6.66	0.00	-82	NA	NA	NA	NM	NA
HC-111	6/12/2013	6.87	0.32	-87.1	NA	NA	NA	NM	NA
HC-111	9/26/2013	6.73	4.79	-92.3	0.90 U	27	280	0.1	0.52

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
HC-111	12/5/2013	6.68	1.21	-76.2	NA	NA	NA	NM	NA
HC-111	3/5/2014	6.57	0.00	118	NA	NA	NA	NM	NA
HC-111	6/9/2014	6.56	0.27	-52	NA	NA	NA	NM	NA
HC-111	9/23/2014	6.74	0.00	-90	0.90 U	4	360	0.5	0.67
HC-111	12/16/2014	6.08	0.00	115	NA	NA	NA	NM	NA
HC-111	3/26/2015	6.49	0.10	-45	NA	NA	NA	NM	NA
HC-111	6/17/2015	6.83	0.00	-146	NA	NA	NA	NM	NA
HC-111	9/22/2015	6.20	0.00	-135	0.20 U	9.3	320	6.0	0.51
HC-111	12/22/2015	6.96	1.78	-28	NA	NA	NA	NM	NA
HC-111	3/22/2016	7.53	0.00	-174	NA	NA	NA	NM	NA
HC-111	6/22/2016	6.95	0.31	-102	NA	NA	NA	NM	NA
HC-111	9/21/2016	6.28	1.94	-148	0.10 U	63.6	407	5.0	NA
HC-111	12/8/2016	6.55	1.42	-85	NA	NA	NA	NM	NA
HC-111	3/20/2017	6.49	0.0	-99	NA	NA	NA	NM	NA
HC-111	6/21/2017	5.95	2.37	-147	NA	NA	NA	NM	NA
HC-111	9/19/2017	8.38	1.45	-128	0.20 U	0.5 U	380	5.0	0.53
HC-111	12/12/2017	6.22	0.00	-26	NA	NA	NA	NM	NA
HC-111	3/19/2018	7.58	1.44	8	NA	NA	NA	NM	NA
HC-111	6/16/2018	6.47	0.00	64	NA	NA	NA	NM	NA
HC-111	9/17/2018	6.52	0.00	-75	0.057 UJ	0.34 J	370	4.5	0.48
HC-111	12/10/2018	6.23	7.30	-87	NA	NA	NA	NM	NA
HC-111	3/13/2019	6.61	1.65	-111	NA	NA	NA	NM	NA
HC-111	6/17/2019	6.26	0.00	-210	NA	NA	NA	NM	NA
HC-111	9/11/2019	6.39	0.00	-71	0.057 U	0.64	380	2.0	0.53 J
HC-111	12/11/2019	7.13	0.00	-87	NA	NA	NA	NM	NA
HC-111	3/24/2020	6.72	0.00	-115	NA	NA	NA	NM	NA
HC-111	6/23/2020	6.39	0.98	-197	NA	NA	NA	NM	NA
HC-111	9/22/2020	6.39	0.30	-198	0.057 U	20	330	4.0	0.50
HC-111	12/14/2020	6.26	0.00	46	NA	NA	NA	NM	NA
HC-111	3/30/2021	6.58	1.37	-50	NA	NA	NA	NM	NA
HC-111	6/23/2021	6.73	0.00	-74	NA	NA	NA	NM	NA
HC-111	9/14/2021	6.72	0.00	-202	0.057 U	0.42 J	310	3.5	0.48
HC-111	12/6/2021	6.49	0.00	-66	NA	NA	NA	NM	NA
HC-111	2/9/2022	6.45	0.00	-67	NA	NA	NA	NM	NA
HC-111	5/3/2022	6.49	0.18	-144	NA	NA	NA	NM	NA
HC-111	8/3/2022	6.57	0.52	-84	0.032 J	2.8	290	2.0	0.49
HC-111	4/12/2023	6.65	0.69	-79.5	NA	NA	NA	NM	NA
HC-111	10/5/2023	6.58	2.42	-153.0	0.057 UJ	0.68	290	1.30	0.480
RW-2	8/27/2003	6.33	NM	NM	NA	NA	NA	NM	NA
RW-2	1/29/2004	6.85	4.15	NM	NA	NA	NA	NM	NA
RW-2	5/6/2004	6.85	4.83	NM	NA	NA	NA	NM	NA
RW-2	8/11/2004	6.05	13.84	-127	NA	NA	NA	NM	NA
RW-2	10/29/2004	6.76	4.60	-113	NA	NA	NA	NM	NA
RW-2	2/9/2005	6.71	4.24	-111	NA	NA	NA	NM	NA
RW-2	5/10/2005	6.60	4.64	-100	NA	NA	NA	NM	NA
RW-2	8/2/2005	7.33	4.94	-241	NA	NA	NA	NM	NA
RW-2	11/7/2005	6.90	0.39	-201.5	1.00 UJ	2.00 U	596	NM	NA
RW-2	2/7/2006	6.87	0.40	-49.5	0.400 U	31.5	518	3.6	NA
RW-2	5/1/2006	6.92	1.68	-148.9	0.400 U	1.97	453	4.0	NA
RW-2	8/4/2006	6.95	3.55	-214.3	0.200 U	21.6	NA	4.6	NA
RW-2	12/21/2006	6.79	2.64	-90.7	31	2.1	NA	3.6	NA
RW-2	2/8/2007	7.06	1.05	-9.2	2.6	11	NA	3.5	NA
RW-2	5/7/2007	6.75	0.01	-114.8	0.5 U	6.8	NA	2.6	NA
RW-2	7/30/2007	7.02	1.49	183.1	0.5 U	5 U	NA	1.7	NA
RW-2	11/5/2007	6.90	2.57	-222.7	0.7	10	NA	2.6	NA
RW-2	2/13/2008	6.91	0.01	-119.2	1.0	32	NA	1.5	NA
RW-2	5/7/2008	7.11	0.09	-152.6	1.7	22	NA	2.6	NA
RW-2	8/12/2008	6.84	0.84	-193.1	0.6	2 U	NA	1.8	NA
RW-2	11/13/2008	NM	NM	NM	0.2 U	0.42	NA	1.2	NA
RW-2	2/26/2009	9.30	0.10	67.4	0.2 U	3.75	NA	3.0	NA
RW-2	5/14/2009	7.07	0.30	-49.1	0.2 U	0.94	NA	2.2	NA
RW-2	8/12/2009	6.78	0.12	-65.5	0.90 U	1.2 U	NA	2.1	NA
RW-2	11/11/2009	7.68	0.07	-90.9	0.90 U	1.2 U	NA	3.2	NA
RW-2	03/25/2010	6.42	0.00	-17	0.90 U	14	NA	1.0	NA
RW-2	06/08/2010	6.27	1.28	-93	0.90 U	6.3	NA	3.2	NA
RW-2	9/15/2010	6.78	0.26	-226	0.90 U	4.9	380	3.0	0.6
RW-2	12/21/2010	6.78	4.99	-148	NA	NA	NA	NM	NA
RW-2	3/9/2011	6.97	0.00	-60	NA	NA	NA	NM	NA
RW-2	6/15/2011	7.32	0.00	-168	NA	NA	NA	NM	NA
RW-2	10/03/2011	7.22	0.00	-175	0.90 U	1.2 U	400	2.8	0.38
RW-2	12/5/2011	6.84	0.00	-97	NA	NA	NA	NM	NA
RW-2	4/9/2012	7.11	0.00	-45	NA	NA	NA	NM	NA
RW-2	6/14/2012	6.76	0.50	-81.7	NA	NA	NA	NM	NA
RW-2	9/12/2012	6.67	0.44	-83	0.90 U	1.2 J	410	5.6	0.72

Table 4
Summary of Natural Attenuation Parameters
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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
RW-2	12/12/2012	--	--	--	NA	NA	NA	NM	NA
RW-2	3/13/2013	7.19	0.39	-89	NA	NA	NA	NM	NA
RW-2	6/12/2013	2.45	1.15	141	NA	NA	NA	NM	NA
RW-2	9/27/2013	6.80	0.00	-75	9.00 U	12 U	450	5.0	0.94
RW-2	12/3/2013	6.88	0.00	-143	NA	NA	NA	NM	NA
RW-2	3/5/2014	7.21	0.00	-244	NA	NA	NA	NM	NA
RW-2	6/12/2014	6.96	9.26	-201	NA	NA	NA	NM	NA
RW-2	9/25/2014	7.13	0.00	-230	0.90 U	1.2 U	370	2.5	0.55
RW-2	12/16/2014	7.00	0.00	-54	NA	NA	NA	NM	NA
RW-2	3/24/2015	7.03	0.11	-62	NA	NA	NA	NM	NA
RW-2	6/17/2015	6.86	0.00	-127	NA	NA	NA	NM	NA
RW-2	9/21/2015	7.21	0.00	-113	0.20 U	1.2 U	430	2.0	0.90
RW-2	12/21/2015	7.23	0.87	-84	NA	NA	NA	NM	NA
RW-2	3/23/2016	6.94	0.00	-157	NA	NA	NA	NM	NA
RW-2	6/22/2016	7.40	0.02	-104	NA	NA	NA	NM	NA
RW-2	9/22/2016	6.67	1.62	-158	0.10 U	0.53	361	2.0	NA
RW-2	12/7/2016	6.95	1.18	-28	NA	NA	NA	NM	NA
RW-2	3/21/2017	7.07	1.80	15	NA	NA	NA	NM	NA
RW-2	6/21/2017	7.26	0.17	-65	NA	NA	NA	NM	NA
RW-2	9/20/2017	7.19	1.81	-82	0.08 J	1.1	300	4.0	0.30
RW-2	9/20/2018	6.52	0.37	-74	0.11 J	0.53	340	7.0	0.38
RW-2	9/10/2019	7.17	0.00	-97	0.53 J	1.5	530	0.5	1.5
RW-2	9/22/2020	6.91	6.94	-102	0.37	0.52	440	2.5	0.37
RW-2	9/14/2021	7.37	0.00	-281	0.10 J	0.70	410	1.5	0.17
RW-2	8/1/2022	7.31	0.12	-151	0.050 J	4.9	220	1.5	0.082
RW-2	10/4/2023	6.76	0.16	-147	0.790 J	0.51 U	420	>	0.800
RW-5	8/27/2003	6.27	NM	NM	NA	NA	NA	NM	NA
RW-5	1/29/2004	6.66	5.22	NM	NA	NA	NA	NM	NA
RW-5	5/6/2004	6.83	4.33	NM	NA	NA	NA	NM	NA
RW-5	8/10/2004	5.95	13.87	-104	NA	NA	NA	NM	NA
RW-5	10/29/2004	6.72	4.79	-223	NA	NA	NA	NM	NA
RW-5	2/7/2005	7.02	3.43	-134	NA	NA	NA	NM	NA
RW-5	5/10/2005	NM	NM	NM	NA	NA	NA	NM	NA
RW-5R	11/7/2005	6.92	0.80	-281.1	NA	NA	NA	NM	NA
RW-5R	2/9/2006	6.84	0.54	51.3	NA	NA	NA	NM	NA
RW-5R	8/4/2006	6.71	3.24	-303.8	0.200 U	7.92	NA	3.4	NA
RW-5R	11/1/2006	6.68	1.12	-73.4	0.8	16	NA	4.0	NA
RW-5R	11/28/2006	6.81	0.58	-134.6	2.1	16	NA	2.6	NA
RW-5R	12/19/2006	7.84	1.00	-245.3	1.8	21	NA	4.8	NA
RW-5R	2/7/2007	7.26	3.39	-242.6	0.77	33	NA	3.2	NA
RW-5R	5/9/2007	6.94	0.86	-227.4	0.5	61	NA	2.0	NA
RW-5R	7/30/2007	6.87	1.45	-268	0.7	5 U	NA	3.8	NA
RW-5R	11/5/2007	6.79	0.64	-246.6	1.5	5 U	NA	1.8	NA
RW-5R	2/13/2008	6.94	0.02	-167	1.5	70	NA	2.9	NA
RW-5R	5/6/2008	6.87	0.02	-338.3	2.4	6	NA	1.9	NA
RW-5R	8/12/2008	6.67	0.57	-169.4	2.1	5	NA	0.2	NA
RW-5R	11/12/2008	7.09	0.14	-157.4	0.2 U	0.4 U	NA	2.0	NA
RW-5R	2/25/2009	7.11	0.02	-195.6	0.2 U	15.6	NA	1.0	NA
RW-5R	5/12/2009	6.73	0.01	-158.7	1.07	54.6	NA	1.6	NA
RW-5R	8/13/2009	6.69	0.07	-96.7	0.90 U	6.6	NA	2.0	NA
RW-5R	11/12/2009	6.91	0.00	-111.7	0.90 U	1.2 U	NA	2.4	NA
RW-5R	03/24/2010	6.10	0.00	-98	0.90 U	38 J	NA	2.4	NA
RW-5R	06/08/2010	6.67	0.00	-94	0.90 U	1200	NA	4.0	NA
RW-5R	9/14/2010	6.50	3.21	300	0.90 U	17	620	2.8	0.54
RW-5R	12/16/2010	6.89	0.00	-45	NA	NA	NA	NM	NA
RW-5R	3/8/2011	6.78	0.00	0.211	NA	NA	NA	NM	NA
RW-5R	6/14/2011	6.84	0.00	-190	NA	NA	NA	NM	NA
RW-5R	10/06/2011	6.68	0.00	-57	0.90 U	1.2 U	470	2.6	0.47
RW-5R	12/6/2011	6.76	0.00	-169	NA	NA	NA	NM	NA
RW-5R	4/2/2012	7.01	0.00	-322	NA	NA	NA	NM	NA
RW-5R	6/14/2012	6.78	0.47	-80.6	NA	NA	NA	NM	NA
RW-5R	9/11/2012	6.84	0.29	-79.6	0.90 U	20	460	1.2	0.38
RW-5R	12/12/2012	6.76	1.05	-104.6	NA	NA	NA	NM	NA
RW-5R	3/13/2013	6.84	0.08	-21.1	NA	NA	NA	NM	NA
RW-5R	6/12/2013	7.19	0.48	-99.2	NA	NA	NA	NM	NA
RW-5R	9/24/2013	7.04	2.26	-66.7	0.90 U	1.2 U	600	2.4	0.48
RW-5R	12/2/2013	6.93	0.00	-241	NA	NA	NA	NM	NA
RW-5R	3/4/2014	6.86	0.00	-102	NA	NA	NA	NM	NA
RW-5R	6/11/2014	7.02	0.22	-179	NA	NA	NA	NM	NA
RW-5R	9/24/2014	7.03	0.15	-234	0.90 U	1.2 U	460	3.0	0.41
RW-5R	12/16/2014	6.88	0.00	-45	NA	NA	NA	NM	NA
RW-5R	3/23/2015	6.87	0.19	-151	NA	NA	NA	NM	NA
RW-5R	6/17/2015	6.95	0.00	-260	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
RW-5R	9/21/2015	7.28	0.00	-99	0.20 U	1.2 U	610	1.8	0.41
RW-5R	12/21/2015	6.67	0.00	-81	NA	NA	NA	NM	NA
RW-5R	3/21/2016	6.65	0.00	8	NA	NA	NA	NM	NA
RW-5R	6/21/2016	7.57	0.87	-189	NA	NA	NA	NM	NA
RW-5R	9/21/2016	6.83	1.16	-183	0.10 U	0.50 U	497	1.5	NA
RW-5R	12/6/2016	6.62	0.00	-138	NA	NA	NA	NM	NA
RW-5R	3/20/2017	7.06	1.65	-117	NA	NA	NA	NM	NA
RW-5R	6/20/2017	7.18	0.00	-82	NA	NA	NA	NM	NA
RW-5R	9/19/2017	6.61	8.25	-173	0.059 J	1.0	500	1.5	0.37
RW-5R	12/11/2017	6.38	0.00	-113	NA	NA	NA	NM	NA
RW-5R	3/19/2018	6.77	0.49	-69	NA	NA	NA	NM	NA
RW-5R	6/18/2018	6.53	0.21	14.4	NA	NA	NA	NM	NA
RW-5R	9/18/2018	6.50	0.12	-12.7	0.28	0.28 J	450	6.0	0.27
RW-5R	12/10/2018	6.93	2.61	-72	NA	NA	NA	NM	NA
RW-5R	3/12/2019	7.22	0.00	-73	NA	NA	NA	NM	NA
RW-5R	6/18/2019	6.25	0.00	-126	NA	NA	NA	NM	NA
RW-5R	9/12/2019	8.36	0.00	-102	0.10 J	0.25 J	540	3.5	0.42
RW-5R	12/11/2019	7.29	0.00	-84	NA	NA	NA	NM	NA
RW-5R	3/23/2020	7.31	0.00	-283	NA	NA	NA	NM	NA
RW-5R	6/23/2020	6.74	0.63	-199	NA	NA	NA	NM	NA
RW-5R	9/22/2020	7.77	0.00	-104	0.086 J	0.45 J	570	3.5	0.36
RW-5R	12/14/2020	6.66	0.00	-95	NA	NA	NA	NM	NA
RW-5R	3/30/2021	7.08	0.00	-163	NA	NA	NA	NM	NA
RW-5R	6/22/2021	6.72	-0.56	-287.9	NA	NA	NA	NM	NA
RW-5R	9/14/2021	6.96	0.00	-111	0.057 U	0.68	520	4.5	0.44
RW-5R	12/6/2021	6.59	0.00	-115	NA	NA	NA	NM	NA
RW-5R	2/8/2022	6.81	0.00	-156	NA	NA	NA	NM	NA
RW-5R	5/3/2022	6.81	0.00	-102	NA	NA	NA	NM	NA
RW-5R	8/1/2022	6.10	0.00	-156	0.030 U	23	410	4.5	0.31
RW-5R	4/11/2023	7.20	1.67	-232.8	NA	NA	NA	NM	NA
RW-5R	10/4/2023	7.10	0.00	-42	2.70	0.51 U	520	>	1.10
RW-8	8/27/2003	6.28	NM	NM	NA	NA	NA	NM	NA
RW-8	11/3/2003	7.29	7.62	NM	NA	NA	NA	NM	NA
RW-8	1/29/2004	7.43	5.83	NM	NA	NA	NA	NM	NA
RW-8	5/6/2004	7.19	5.21	NM	NA	NA	NA	NM	NA
RW-8	8/12/2004	NM	NM	NM	NA	NA	NA	NM	NA
RW-8	10/29/2004	7.05	6.43	-256	NA	NA	NA	NM	NA
RW-8	2/7/2005	6.93	4.15	-167	NA	NA	NA	NM	NA
RW-8	5/11/2005	7.39	4.01	-281	NA	NA	NA	NM	NA
RW-8	8/2/2005	7.62	4.81	-300	NA	NA	NA	NM	NA
RW-8	11/7/2005	7.30	0.55	-323.2	NA	NA	NA	NM	NA
RW-8	2/7/2006	6.80	0.12	-166.9	NA	NA	NA	NM	NA
RW-8	5/1/2006	6.88	1.87	-229.2	NA	NA	NA	NM	NA
RW-8	8/4/2006	6.98	2.20	-258.4	NA	NA	NA	2.4	NA
RW-8	11/1/2006	7.14	1.17	-33.9	2.0	9	NA	0.6	NA
RW-8	11/28/2006	6.76	0.85	-143.3	0.5 U	22	NA	3.0	NA
RW-8	12/19/2006	7.69	2.66	-269.3	1.4	10	NA	1.5	NA
RW-8	2/7/2007	7.27	1.53	-202.3	2.4	13	NA	NM	NA
RW-8	5/9/2007	6.82	1.53	-164.6	4.0	6.0	NA	1.2	NA
RW-8	7/30/2007	7.02	1.70	-227.6	0.5 U	5 U	NA	1.9	NA
RW-8	11/5/2007	7.13	1.02	-220.3	0.8	5 U	NA	0.8	NA
RW-8	2/13/2008	7.04	0.01	-239.6	3.3	11	NA	1.4	NA
RW-8	5/6/2008	7.05	0.02	90.6	0.6	2	NA	1.8	NA
RW-8	8/12/2008	7.12	0.64	-162.3	1.6	2 U	NA	1.7	NA
RW-8	11/13/2008	NM	NM	NM	0.2 U	1.51	NA	0.7	NA
RW-8	2/25/2009	7.30	0.10	-78.6	0.2 U	4.76	NA	1.5	NA
RW-8	5/14/2009	7.14	0.11	-70.2	0.2 U	1.48	NA	1.0	NA
RW-8	8/12/2009	6.98	0.21	-55	0.90 U	1.2 U	NA	0.9	NA
RW-8	11/11/2009	7.92	0.17	-67	0.90 U	2.8	NA	1.0	NA
RW-8	03/24/2010	6.22	5.43	12	0.90 U	330	NA	2.5	NA
RW-8	06/08/2010	6.54	2.47	-72	0.90 U	140	NA	4.4	NA
RW-8	9/14/2010	6.02	2.65	44	0.90 U	71	370	4.2	0.93
RW-8	12/16/2010	6.79	4.89	-181	NA	NA	NA	NM	NA
RW-8	3/8/2011	6.91	0.00	-204	NA	NA	NA	NM	NA
RW-8	6/14/2011	7.05	0.00	-127	NA	NA	NA	NM	NA
RW-8	10/05/2011	6.93	6.18	-130	0.90 U	1.2 U	480	3.6	0.51
RW-8	12/7/2011	7.06	0.00	-125	NA	NA	NA	NM	NA
RW-8	4/9/2012	7.05	0.00	-171	NA	NA	NA	NM	NA
RW-8	6/12/2012	6.45	0.11	-165	NA	NA	NA	NM	NA
RW-8	9/11/2012	6.91	0.49	-112.6	0.90 U	0.69 J	450	5.6	0.46
RW-8	12/12/2012	7.11	0.19	-180.7	NA	NA	NA	NM	NA
RW-8	3/13/2013	7.20	0.29	-223.4	NA	NA	NA	NM	NA
RW-8	6/12/2013	2.57	1.10	143	NA	NA	NA	NM	NA
RW-8	9/24/2013	7.20	1.95	-98.7	9.00 U	1.2 U	410	1.2	0.36
RW-8	12/3/2013	7.05	7.84	-171	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
RW-8	3/4/2014	7.01	0.16	-127	NA	NA	NA	NM	NA
RW-8	6/12/2014	7.35	0.00	-134	NA	NA	NA	NM	NA
RW-8	9/25/2014	7.16	0.00	-204	0.90 U	1.2 U	410	3.5	0.39
RW-8	12/16/2014	7.05	0.00	-78	NA	NA	NA	NM	NA
RW-8	3/24/2015	7.08	1.12	-73	NA	NA	NA	NM	NA
RW-8	6/17/2015	6.87	0.00	-104	NA	NA	NA	NM	NA
RW-8	9/24/2015	7.41	0.00	-134	0.20 U	1.2 U	430	2.5	0.38
RW-8	12/21/2015	6.95	0.00	-250	NA	NA	NA	NM	NA
RW-8	3/21/2016	7.43	0.00	-230	NA	NA	NA	NM	NA
RW-8	6/21/2016	7.47	0.00	-244	NA	NA	NA	NM	NA
RW-8	9/22/2016	6.92	1.49	-144	0.10 U	1.5	454	3.0	NA
RW-8	12/6/2016	6.74	0.00	-137	NA	NA	NA	NM	NA
RW-8	3/20/2017	7.00	0.0	-201	NA	NA	NA	NM	NA
RW-8	6/21/2017	7.02	0.00	-58	NA	NA	NA	NM	NA
RW-8	9/20/2017	9.52	0.96	-75	0.20 U	1.2	400	1.5	0.41
RW-8	12/11/2017	6.75	0.00	-87	NA	NA	NA	NM	NA
RW-8	3/20/2018	6.65	0.41	-186	NA	NA	NA	NM	NA
RW-8	6/18/2018	6.69	6.40	-59	NA	NA	NA	NM	NA
RW-8	9/20/2018	6.71	0.45	-33	0.20 U	1.4	330	5.0	0.45
RW-8	12/10/2018	6.99	3.43	-108	NA	NA	NA	NM	NA
RW-8	3/12/2019	7.17	0.00	-81	NA	NA	NA	NM	NA
RW-8	6/18/2019	6.57	0.00	-157	NA	NA	NA	NM	NA
RW-8	9/10/2019	6.72	0.00	-97	0.057 U	2.4	400	2.0	0.93
RW-8	12/10/2019	6.98	0.00	-141	NA	NA	NA	NM	NA
RW-8	3/23/2020	7.35	0.00	-309	NA	NA	NA	NM	NA
RW-8	6/23/2020	7.31	4.26	-305	NA	NA	NA	NM	NA
RW-8	9/22/2020	8.35	0.00	-165	0.16 J	35	380	0.5	0.17
RW-8	12/15/2020	7.25	0.00	-157	NA	NA	NA	NM	NA
RW-8	3/29/2021	7.26	5.17	-266	NA	NA	NA	NM	NA
RW-8	6/23/2021	7.10	0.04	-272.9	NA	NA	NA	NM	NA
RW-8	9/14/2021	7.45	13.35	-307	0.057 U	7.5	430	0.0	0.11
RW-8	12/6/2021	7.39	0.00	-94	NA	NA	NA	NM	NA
RW-8	2/8/2022	7.29	0.00	-131	NA	NA	NA	NM	NA
RW-8	5/3/2022	7.19	0.00	-65	NA	NA	NA	NM	NA
RW-8	8/2/2022	7.24	0.00	-113	0.12 J	23	260	0.0	0.090
RW-8	4/11/2023	7.38	1.58	-144.3	NA	NA	NA	NM	NA
RW-8	10/4/2023	7.11	0.88	-156	0.57 U	15.0	260	0.62	0.11
RW-12	8/27/2003	7.55	NM	NM	NA	NA	NA	NM	NA
RW-12	11/3/2003	6.73	12.68	NM	NA	NA	NA	NM	NA
RW-12	1/29/2004	7.20	6.26	NM	NA	NA	NA	NM	NA
RW-12	5/6/2004	7.83	5.01	NM	NA	NA	NA	NM	NA
RW-12	8/11/2004	6.98	13.56	-340	NA	NA	NA	NM	NA
RW-12	2/7/2005	NM	NM	NM	NA	NA	NA	NM	NA
RW-12	5/10/2005	7.62	5.19	-236	NA	NA	NA	NM	NA
RW-12	8/2/2005	7.98	4.74	-389	NA	NA	NA	NM	NA
RW-12	11/7/2005	7.41	0.12	-424.7	10.0 U	1190	578	NM	NA
RW-12	2/7/2006	6.88	0.19	-88.2	8.04 J	240	344	0.6	NA
RW-12	5/1/2006	6.64	0.74	-215.7	2.0 U	575	244	0.6	NA
RW-12	8/4/2006	6.83	3.30	-256.8	40.0 U	1350	NA	1.2	NA
RW-12	12/18/2006	8.48	0.88	-240	14	180	NA	2.5	NA
RW-12	2/7/2007	6.91	1.35	-12.7	20	120	NA	3.0	NA
RW-12	5/8/2007	6.57	0.01	-52	0.9	240	NA	1.6	NA
RW-12	7/30/2007	7.02	0.98	-304.5	0.5 U	710	NA	0.1	NA
RW-12	11/5/2007	6.31	2.47	-262.7	1.5	920	NA	0.5	NA
RW-12	2/13/2008	6.43	0.01	-134.5	0.5 U	190	NA	2.8	NA
RW-12	5/7/2008	6.75	0.48	-32.6	0.5 U	1200	NA	2.2	NA
RW-12	8/12/2008	6.24	0.57	1.2	0.5 U	330	NA	1.6	NA
RW-12	11/13/2008	6.75	0.44	3.9	2.2	566	NA	0.6	NA
RW-12	2/27/2009	2.05	0.10	225.3	0.4	19.1	NA	NM	NA
RW-12	5/12/2009	6.26	0.18	240	0.54	67.2	NA	1.4	NA
RW-12	8/12/2009	6.72	0.02	24.1	9.0 U	1000	NA	1.8	NA
RW-12	11/11/2009	7.24	0.09	-27.3	0.90 U	1000	NA	1.2	NA
RW-12	06/08/2010	6.65	1.27	3	0.90 U	470	NA	0.4	NA
T-2	12/20/2010	7.40	6.52	-208	NA	NA	NA	NM	NA
T-2	6/14/2011	6.61	0.74	-156	NA	NA	NA	NM	NA
T-2	10/05/2011	5.44	0.00	-48	0.90 U	1100	8.4	2.6	0.49
T-2	12/5/2011	5.57	0.00	-111	NA	NA	NA	NM	NA
T-2	4/4/2012	6.68	1.61	-145	NA	NA	NA	NM	NA
T-2	6/13/2012	6.11	2.86	-212	NA	NA	NA	NM	NA
T-2	9/12/2012	5.89	1.51	-31.2	0.90 U	720 J	42	2.0	0.25
T-2	12/13/2012	5.24	0.29	81.4	NA	NA	NA	NM	NA
T-2	3/12/2013	6.10	0.05	46.2	NA	NA	NA	NM	NA
T-2	6/10/2013	7.13	1.65	-149	NA	NA	NA	NM	NA
T-2	9/24/2013	6.03	0.00	-127	0.90 U	830	17	4.0	0.2
T-2	12/3/2013	6.79	5.91	-206.7	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
T-2	3/4/2014	6.18	1.41	-173	NA	NA	NA	NM	NA
T-2	6/10/2014	7.10	0.07	-144	NA	NA	NA	NM	NA
T-2	9/22/2014	6.18	0.17	-147	0.90 U	1500	11	3.0	0.4
T-2	12/16/2014	5.96	0.00	60	NA	NA	NA	NM	NA
T-2	3/26/2015	6.06	2.11	77	NA	NA	NA	NM	NA
T-2	6/16/2015	5.56	0.00	-36	NA	NA	NA	NM	NA
T-2	9/21/2015	6.07	0.00	1	0.20 U	1400	43	2.5	0.23
T-2	12/22/2015	5.76	0.0	-11	NA	NA	NA	NM	NA
T-2	3/22/2016	5.94	0.0	139	NA	NA	NA	NM	NA
T-2	6/21/2016	7.15	2.9	-263	NA	NA	NA	NM	NA
T-2	9/21/2016	5.98	2.93	-178	1.0 U	1280	68.7	3.0	NA
T-2	12/7/2016	6.10	1.57	-36	NA	NA	NA	NM	NA
T-2	3/21/2017	6.82	4.24	3.0	NA	NA	NA	NM	NA
T-2	6/21/2017	6.78	0.45	-7	NA	NA	NA	NM	NA
T-2	9/25/2017	7.27	1.64	-104	8.0 U	1400	40	1.5	0.094
T-2	12/11/2017	5.88	0.00	-97	NA	NA	NA	NM	NA
T-2	3/20/2018	6.38	2.09	-237	NA	NA	NA	NM	NA
T-2	6/18/2018	5.86	1.79	-76.6	NA	NA	NA	NM	NA
T-2	9/17/2018	6.14	0.00	-40	2.9 UJ	2400	52	0.5	0.48
T-2	12/10/2018	6.50	1.81	-44	NA	NA	NA	NM	NA
T-2	3/12/2019	6.93	2.10	-226	NA	NA	NA	NM	NA
T-2	6/17/2019	6.22	0.00	-13	NA	NA	NA	NM	NA
T-2	2/8/2022	6.65	4.30	-205	NA	NA	NA	NM	NA
T-2	9/11/2019	7.60	2.13	-76	2.9 U	1800	76	2.0	0.063
T-2	12/10/2019	6.96	0.00	-28	NA	NA	NA	NM	NA
T-2	3/24/2020	6.25	0.48	-237	NA	NA	NA	NM	NA
T-2	6/23/2020	6.53	3.91	-85	NA	NA	NA	NM	NA
T-2	9/22/2020	7.23	1.2	-63	2.9 U	1600	78	3.5	0.093
T-2	12/14/2020	6.42	0.00	-94	NA	NA	NA	NM	NA
T-2	3/29/2021	6.49	1.37	-22	NA	NA	NA	NM	NA
T-2	6/22/2021	5.80	1.54	-249.8	NA	NA	NA	NM	NA
T-2	9/13/2021	5.94	0.00	-150	5.6 J	1600	20	0.5	0.093
T-2	12/6/2021	6.21	0.02	-226	NA	NA	NA	NM	NA
T-2	2/8/2022	6.65	4.30	-205	NA	NA	NA	NM	NA
T-2	5/3/2022	6.01	0.96	-169	NA	NA	NA	NM	NA
T-2	8/2/2022	5.65	1.89	70	0.030 U	740	14	1.0	0.080
T-2	4/11/2023	4.36	0.46	151.3	NA	NA	NA	NM	NA
T-2	10/5/2023	5.82	0.99	193	0.57 UJ	2400	35	0.58	0.034
T-3	1/28/2004	7.17	1.27	NM	NA	NA	NA	NM	NA
T-3	5/5/2004	7.46	3.66	NM	NA	NA	NA	NM	NA
T-3	8/12/2004	7.53	4.26	-168	NA	NA	NA	NM	NA
T-3	10/28/2004	7.16	5.94	-330	NA	NA	NA	NM	NA
T-3	2/7/2005	6.60	3.82	-264	NA	NA	NA	NM	NA
T-3	5/10/2005	7.06	3.72	-328	NA	NA	NA	NM	NA
T-3	8/2/2005	7.86	4.01	-405	NA	NA	NA	NM	NA
T-3	11/7/2005	7.28	0.46	-433.3	NA	NA	NA	NM	NA
T-3	2/7/2006	7.16	0.00	-347.9	NA	NA	NA	NM	NA
T-3	5/1/2006	6.61	2.79	-257.8	NA	NA	NA	NM	NA
T-3	8/4/2006	7.22	2.10	-378.5	NA	NA	NA	1.0	NA
T-3	2/7/2007	7.77	0.78	-323.1	NA	NA	NA	0.8	NA
T-3	5/9/2007	7.61	2.94	-330.1	NA	NA	NA	1.0	NA
T-3	7/30/2007	7.55	0.77	-362	NA	NA	NA	0.5	NA
T-3	11/5/2007	7.75	0.78	-316.6	NA	NA	NA	0.8	NA
T-3	2/14/2008	7.34	0.02	-398.3	NA	NA	NA	0.4	NA
T-3	5/6/2008	7.79	0.01	-399.3	NA	NA	NA	0.4	NA
T-3	8/12/2008	7.30	0.56	-352.6	NA	NA	NA	0.2	NA
T-3	11/12/2008	7.59	0.09	-334.5	NA	NA	NA	NM	NA
T-3	2/25/2009	5.06	0.28	6.6	NA	NA	NA	NM	NA
T-3	5/13/2009	7.10	0.01	-172.35	NA	NA	NA	NM	NA
T-3	8/13/2009	7.20	0.05	-146.6	4.5 U	280	NA	0.0	NA
T-3	11/12/2009	7.56	0.00	-309.6	4.5 U	1900 J	NA	1.0	NA
T-3	03/24/2010	6.66	0.00	-203	NA	NA	NA	0.0	NA
T-3	06/08/2010	6.95	0.99	-300	NA	NA	NA	NM	NA
T-3	6/14/2011	7.28	0.00	-330	NA	NA	NA	NM	NA
T-3	10/06/2011	7.04	0.00	-300	0.9 U	1200	290	0.0	0.031
T-3	12/7/2011	7.14	0.84	-324	NA	NA	NA	NM	NA
T-3	4/2/2012	7.28	0.00	-407	NA	NA	NA	NM	NA
T-3	6/13/2012	7.38	0.48	-347.2	NA	NA	NA	NM	NA
T-3	9/11/2012	7.07	3.60	-282.7	0.9 U	1300	180	0.0	0.016
T-3	12/12/2012	7.30	0.19	-299.7	NA	NA	NA	NM	NA
T-3	3/13/2013	7.55	0.14	-369.2	NA	NA	NA	NM	NA
T-3	6/11/2013	7.75	3.68	-379	NA	NA	NA	NM	NA
T-3	9/24/2013	7.03	0.00	-312	9 U	1500	240	0.0	0.021
T-3	12/2/2013	7.96	39.22	-343.1	NA	NA	NA	NM	NA
T-3	3/5/2014	7.51	0.00	-364	NA	NA	NA	NM	NA

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T-3	6/12/2014	7.24	0.05	-395	NA	NA	NA	NM	NA
T-3	9/24/2014	7.36	0.00	-391	0.9 U	1200	420	0.0	0.018
T-3	12/16/2014	7.51	1.99	-378	NA	NA	NA	NM	NA
T-3	3/23/2015	8.03	3.65	-319	NA	NA	NA	NM	NA
T-3	6/17/2015	7.55	0.00	-337	NA	NA	NA	NM	NA
T-3	9/21/2015	7.06	3.22	-352	0.20 U	1500	250	0.0	0.014
T-3	12/21/2015	7.17	0.00	-322	NA	NA	NA	NM	NA
T-3	3/21/2016	8.93	0.00	-295	NA	NA	NA	NM	NA
T-3	6/21/2016	7.80	2.06	-320	NA	NA	NA	NM	NA
T-3	9/19/2016	7.08	1.23	-405	0.10 U	1630	278	0.0	NA
T-3	12/7/2016	7.19	0.00	-372	NA	NA	NA	NM	NA
T-3	3/20/2017	7.69	0.0	-355	NA	NA	NA	NM	NA
T-3	6/20/2017	6.70	3.35	-290	NA	NA	NA	NM	NA
T-3	9/19/2017	7.11	0.66	-355	10 U	340	490	0.0	0.0064 J
T-3	3/20/2018	8.73	0.00	-294	NA	NA	NA	NM	NA
T-3	9/20/2018	7.01	0.00	-327	200 U	1500	200	0.0	0.040
T-3	3/12/2019	7.50	2.81	-356	NA	NA	NA	NM	NA
T-3	9/10/2019	8.79	0.00	-318	57 U	2000	170	0.3	0.026 J
T-3	3/23/2020	7.48	0.00	-376	NA	NA	NA	NM	NA
T-3	9/21/2020	9.92	14.4	-329	3.3 J	110	440	0.0	0.0026 J
T-3	3/29/2021	7.73	8.34	-358	NA	NA	NA	NM	NA
T-3	9/14/2021	7.53	1.44	-345	58 J	230 J	210	1.0	0.032
T-3	2/8/2022	8.64	1.39	-352	NA	NA	NA	NM	NA
T-3	8/2/2022	7.43	0.00	-363	0.13 J	670	180	2.5	0.0063 J
T-3	4/11/2023	7.36	1.36	-348.9	NA	NA	NA	NM	NA
T-3	10/3/2023	7.25	11.31	-356	12.0	2400	160	NM	0.012
Upper Sand Unit - Surface Water Compliance									
FW-14	9/16/2010	6.45	3.62	-295	0.90 U	1800	82	0.1	0.0053
FW-14	12/17/2010	6.82	5.56	5	NA	NA	NA	NM	NA
FW-14	3/9/2011	6.85	0.98	117	NA	NA	NA	NM	NA
FW-14	6/13/2011	6.50	2.51	106	NA	NA	NA	NM	NA
FW-14	09/30/2011	6.61	0.13	130	0.90 U	1900	76	0.0	0.0038
FW-14	12/6/2011	6.67	7.57	98	NA	NA	NA	NM	NA
FW-14	4/3/2012	7.22	6.45	121	NA	NA	NA	NM	NA
FW-14	6/13/2012	6.47	2.72	68.8	NA	NA	NA	NM	NA
FW-14	9/10/2012	8.28	1.52	38	0.90 U	1700	79	0.0	0.004
FW-14	12/11/2012	6.83	0.82	98.2	NA	NA	NA	NM	NA
FW-14	3/12/2013	7.28	6.38	91	NA	NA	NA	NM	NA
FW-14	6/12/2013	7.17	5.62	-24.4	NA	NA	NA	NM	NA
FW-14	9/25/2013	6.69	1.65	-14	0.90 UJ	3100	78	0.0	0.0025
FW-14	12/4/2013	7.78	0.98	80.8	NA	NA	NA	NM	NA
FW-14	3/6/2014	7.14	0.00	3	NA	NA	NA	NM	NA
FW-14	6/9/2014	6.61	1.61	-3	NA	NA	NA	NM	NA
FW-14	9/23/2014	7.04	4.26	-3	0.90 U	1800	83	0.0	0.002 U
FW-14	12/15/2014	6.85	2.75	33	NA	NA	NA	NM	NA
FW-14	3/25/2015	7.20	4.09	51	NA	NA	NA	NM	NA
FW-14	6/15/2015	7.13	0.00	10	NA	NA	NA	NM	NA
FW-14	9/23/2015	6.58	4.59	53	0.20 U	3400	91	0.0	0.010 U
FW-14	12/22/2015	7.37	5.45	97	NA	NA	NA	NM	NA
FW-14	3/23/2016	6.50	0.00	109	NA	NA	NA	NM	NA
FW-14	6/22/2016	6.97	1.03	20	NA	NA	NA	NM	NA
FW-14	9/20/2016	6.78	3.42	46	2.5 U	2020	91.3	0.0	NA
FW-14	12/8/2016	6.72	2.08	-28	NA	NA	NA	NM	NA
FW-14	3/21/2017	7.24	0.0	-172	NA	NA	NA	NM	NA
FW-14	6/21/2017	7.95	3.04	-75	NA	NA	NA	NM	NA
FW-14	9/19/2017	7.20	6.87	133	20 U	2000	87	0.0	0.010 U
FW-14	12/12/2017	6.88	0.00	42	NA	NA	NA	NM	NA
FW-14	3/20/2018	8.29	7.60	-23	NA	NA	NA	NM	NA
FW-14	6/19/2018	7.16	4.94	184	NA	NA	NA	NM	NA
FW-14	9/18/2018	6.78	0.87	62	20 U	2900	83	0.0	0.0038 J
FW-14	12/11/2018	7.17	6.70	43	NA	NA	NA	NM	NA
FW-14	3/13/2019	6.95	4.24	67	NA	NA	NA	NM	NA
FW-14	6/18/2019	6.88	0.00	106	NA	NA	NA	NM	NA
FW-14	9/11/2019	6.81	1.41	-185	5.7 U	1900	86	0.0	0.012
FW-14	12/10/2019	7.73	4.75	-12	NA	NA	NA	NM	NA
FW-14	3/24/2020	7.58	4.56	-228	NA	NA	NA	NM	NA
FW-14	6/23/2020	7.13	4.31	24	NA	NA	NA	NM	NA
FW-14	9/23/2020	6.78	5.52	-12	16 J	3100	83	0.0	0.0046 J
FW-14	12/14/2020	7.11	3.55	23	NA	NA	NA	NM	NA
FW-14	3/30/2021	6.80	3.54	22	NA	NA	NA	NM	NA
FW-14	6/22/2021	6.75	1.82	-44	NA	NA	NA	NM	NA

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FW-14	9/14/2021	7.42	0.52	-170	6.1 J	1700	84	0.0	0.002 U
FW-14	12/6/2021	6.96	3.52	94	NA	NA	NA	NM	NA
FW-14	2/8/2022	7.10	0.00	-236	NA	NA	NA	NM	NA
FW-14	5/3/2022	6.79	1.87	19	NA	NA	NA	NM	NA
FW-14	8/2/2022	6.75	0.48	2	0.15 J	740	79	0.5	0.0023 U
FW-14	4/11/2023	6.72	5.75	27.9	NA	NA	NA	NM	NA
FW-14	10/3/2023	6.89	2.39	168.0	11.0	2300	90	0.02	0.0023 U
FW-15	9/16/2010	5.91	2.51	233	0.90 U	1600	120	0.2	0.0049
FW-15	09/30/2011	6.02	1.48	168	0.90 U	1300	78	0.0	0.025
FW-15	9/10/2012	6.20	0.96	9.4	0.90 U	1700	77	0.2	0.013
FW-15	9/25/2013	7.00	7.80	13	0.90 U	1600	68	0.1	0.0033
FW-15	9/23/2014	6.23	0.85	9	0.90 U	1800	77	0.0	0.012
FW-15	9/23/2015	6.07	0.00	134	0.20 U	2600	90	0.0	0.010 U
FW-15	9/20/2016	6.44	3.38	-15	1.0 U	746	149	0.0	NA
FW-15	9/25/2017	8.31	2.03	-40	20 U	1200	89	0.5	0.010 U
FW-15	9/20/2018	6.67	1.23	133	20 U	1200	96	0.0	0.0049 J
FW-15	9/11/2019	6.59	3.73	4	5.7 U	230	45	0.5	0.0049 J
FW-15	9/23/2020	6.99	3.99	10	6.6 J	110	60	0.0	0.0023 U
FW-15	9/14/2021	6.63	1.25	-68	7.0 J	1900	41	0.5	0.0023 U
FW-15	8/2/2022	6.27	3.04	63	0.030 U	700	39	0.0	0.0034 J
FW-15	10/3/2023	8.04	8.45	8	0.640	24.0	43	NM	0.0025 J
RR-1	8/2/2005	6.67	5.46	-273	NA	NA	NA	NM	NA
RR-1	11/7/2005	6.33	0.49	-259.1	NA	NA	NA	NM	NA
RR-1	2/7/2006	6.07	0.90	112.6	NA	NA	NA	NM	NA
RR-1	5/2/2006	6.29	3.06	-178	R	1570	73.6	1.5	NA
RR-1	8/4/2006	6.63	2.38	-158.5	NA	NA	NA	0.8	NA
RR-1	11/1/2006	7.31	0.96	-234.4	NA	NA	NA	1.6	NA
RR-1	11/28/2006	6.80	1.55	-180.1	NA	NA	NA	0.4	NA
RR-1	12/19/2006	5.91	1.21	-143.8	NA	NA	NA	0.8	NA
RR-1	5/8/2007	6.45	0.01	-270	NA	NA	NA	0.8	NA
RR-1	7/30/2007	6.11	0.90	-174.7	NA	NA	NA	3.0	NA
RR-1	11/5/2007	6.16	2.68	-237.2	NA	NA	NA	0.6	NA
RR-1	2/12/2008	6.73	0.03	-27.6	0.5 U	1850	NA	0.6	NA
RR-1	5/6/2008	6.49	0.03	-135.6	NA	NA	NA	1.2	NA
RR-1	8/12/2008	6.24	0.91	-180.9	NA	NA	NA	NM	NA
RR-1	11/13/2008	6.16	0.56	90.3	0.55	1660	NA	NM	NA
RR-1	2/25/2009	6.72	0.04	-117.2	4 U	1440	NA	0.4	NA
RR-1	5/12/2009	6.56	0.05	-158.53	0.2	1010	NA	NM	NA
RR-1	8/13/2009	6.20	0.15	-7.5	9.0 U	1600	NA	2.2	NA
RR-1	11/12/2009	8.42	0.18	-17.2	2.5	1500	NA	1.4	NA
RR-1	03/24/2010	6.34	0.00	-211	0.9 U	1200	NA	0.5	NA
RR-1	06/08/2010	6.07	1.02	35	0.9 U	1400	NA	0.1	NA
RR-1	9/14/2010	6.30	5.00	96	0.9 U	1500	68	0.1	0.03
RR-1	12/20/2010	6.50	0.00	278	NA	NA	NA	NM	NA
RR-1	3/8/2011	6.33	0.00	5	NA	NA	NA	NM	NA
RR-1	6/14/2011	6.28	0.50	112	NA	NA	NA	NM	NA
RR-1	10/05/2011	6.27	0.00	169	0.9 U	1800	71	0.1	0.018
RR-1	12/6/2011	6.23	0.00	155	NA	NA	NA	NM	NA
RR-1	4/6/2012	6.81	4.98	101	NA	NA	NA	NM	NA
RR-1	6/13/2012	6.31	2.17	86.4	NA	NA	NA	NM	NA
RR-1	9/12/2012	6.20	1.19	-25.6	0.9 U	1500 J	75	5.0	0.052
RR-1	12/12/2012	6.55	0.72	-16.5	NA	NA	NA	NM	NA
RR-1	3/12/2013	6.68	0.36	-62.9	NA	NA	NA	NM	NA
RR-1	6/10/2013	6.63	0.65	33	NA	NA	NA	NM	NA
RR-1	9/26/2013	5.80	6.24	156.2	0.9 U	1600	39	2.5	0.078
RR-1	12/3/2013	6.96	7.19	69.2	NA	NA	NA	NM	NA
RR-1	3/3/2014	6.71	5.29	226	NA	NA	NA	NM	NA
RR-1	6/11/2014	6.31	1.00	23	NA	NA	NA	NM	NA
RR-1	9/22/2014	6.23	0.64	51	0.9 U	2000	44	0.5	0.045
RR-1	12/17/2014	6.70	4.31	136	NA	NA	NA	NM	NA
RR-1	3/23/2015	7.58	6.06	-129	NA	NA	NA	NM	NA
RR-1	6/16/2015	6.36	0.00	-48	NA	NA	NA	NM	NA
RR-1	9/22/2015	5.98	0.00	-105	1.0 U	3700	69	0.5	0.030
RR-1	11/19/2015	6.62	4.96	-228	NA	NA	NA	NM	NA
RR-1	12/23/2015	6.99	5.90	141	NA	NA	NA	NM	NA
RR-1	3/21/2016	6.36	0.0	307	NA	NA	NA	NM	NA
RR-1	6/21/2016	7.55	7.94	-308	NA	NA	NA	NM	NA
RR-1	9/19/2016	6.16	1.21	-88	0.10 U	1800	79.5	0.5	NA
RR-1	12/6/2016	6.32	0.0	4	NA	NA	NA	NM	NA
RR-1	3/22/2017	6.60	2.24	105	NA	NA	NA	NM	NA
RR-1	6/21/2017	6.72	0.47	42	NA	NA	NA	NM	NA
RR-1	9/19/2017	6.31	1.2	-27	20 U	1700	94	3.5	0.031
RR-1	12/12/2017	6.36	0.00	92	NA	NA	NA	NM	NA
RR-1	3/20/2018	5.94	1.96	104	NA	NA	NA	NM	NA
RR-1	6/19/2018	6.28	5.32	23	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
RR-1	9/18/2018	6.49	0.10	-236	20 U	2300	88	2.0	0.012
RR-1	12/11/2018	6.33	3.62	25	NA	NA	NA	NM	NA
RR-1	3/13/2019	7.15	9.46	-329	NA	NA	NA	NM	NA
RR-1	6/17/2019	6.32	0.00	-64	NA	NA	NA	NM	NA
RR-1	9/10/2019	7.91	0.00	-151	5.7 UJ	1800	110	0.0	0.0092 J
RR-1	12/10/2019	7.32	0.36	-289	NA	NA	NA	NM	NA
RR-1	3/23/2020	6.63	0.00	-341	NA	NA	NA	NM	NA
RR-1	6/23/2020	6.85	9.24	-229	NA	NA	NA	NM	NA
RR-1	9/21/2020	7.26	0.00	-63	11 J	1700	69	0.5	0.0056 J
RR-1	12/15/2020	6.78	0.62	-306	NA	NA	NA	NM	NA
RR-1	3/29/2021	7.50	0.84	-314	NA	NA	NA	NM	NA
RR-1	6/23/2021	6.28	0.94	-247.4	NA	NA	NA	NM	NA
RR-1	9/14/2021	6.92	0.00	-287	5.7 J	1600	42	0.5	0.014
RR-1	12/7/2021	6.50	4.07	24	NA	NA	NA	NM	NA
RR-1	2/8/2022	8.45	0.66	-297	NA	NA	NA	NM	NA
RR-1	5/3/2022	6.94	0.45	-236	NA	NA	NA	NM	NA
RR-1	8/1/2022	6.84	0.28	-332	6.8	1400	110	0.0	0.0059 J
RR-1	4/11/2023	6.25	2.07	4.2	NA	NA	NA	NM	NA
RR-1	10/3/2023	6.40	1.01	16	9.80	2500	68	0.12	0.005 J
RR-2	8/2/2005	6.83	0.00	-148	NA	NA	NA	NM	NA
RR-2	11/7/2005	7.51	6.11	-238.9	NA	NA	NA	NM	NA
RR-2	2/7/2006	7.11	0.00	-317.7	NA	NA	NA	NM	NA
RR-2	8/3/2006	6.83	2.46	-304.3	NA	NA	NA	NM	NA
RR-2	10/31/2006	7.35	5.36	-113.3	61	2300	NA	1.0	NA
RR-2	11/27/2006	6.99	7.86	-84.5	4.7	500	NA	0.2	NA
RR-2	12/18/2006	8.65	3.45	-221.7	46	250	NA	1.3	NA
RR-2	2/6/2007	7.15	1.44	-274.3	48	660	NA	0.8	NA
RR-2	5/7/2007	6.51	0.01	-141.5	0.5 U	500	NA	1.6	NA
RR-2	7/30/2007	6.70	3.71	71.3	0.5 U	1630	NA	0.1	NA
RR-2	11/5/2007	6.63	2.37	-127.8	0.5 U	1800	NA	0.8	NA
RR-2	2/12/2008	7.07	0.02	-209.8	0.5 U	1610	NA	0.6	NA
RR-2	5/6/2008	7.05	0.15	-176.8	0.5 U	1500	NA	0.0	NA
RR-2	8/12/2008	7.00	0.28	-207	14.5	1800	NA	0.4	NA
RR-2	11/13/2008	7.18	0.66	21.4	3.41	1310	NA	0.2	NA
RR-2	5/5/12/09	7.28	0.20	-199.18	0.2 U	616	NA	0.6	NA
RR-2	8/13/2009	7.40	0.02	-155.8	9.0 U	1700	NA	0.4	NA
RR-2	11/10/2009	8.31	0.16	-68.8	3.0	1400	NA	1.1	NA
RR-2	03/23/2010	6.99	0.00	-216	0.9 U	1200	NA	0.0	NA
RR-2	06/08/2010	7.01	0.00	-123	4.5 U	850	NA	0.0	NA
RR-2	9/14/2010	6.54	0.25	-129	0.9 U	1800	94	0.6	0.0035
RR-2	12/20/2010	6.88	10.16	99	NA	NA	NA	NM	NA
RR-2	3/11/2011	7.42	0.00	-275	NA	NA	NA	NM	NA
RR-2	6/13/2011	7.30	0.00	-288	NA	NA	NA	NM	NA
RR-2	09/27/2011	6.56	1.43	123	0.9 U	1800	100	0.0	0.002
RR-2	12/6/2011	7.01	2.40	-180	NA	NA	NA	NM	NA
RR-2	4/4/2012	7.35	3.26	-119	NA	NA	NA	NM	NA
RR-2	6/14/2012	7.30	0.70	-253.7	NA	NA	NA	NM	NA
RR-2	9/11/2012	7.42	0.00	-182	0.9 U	1700	89	0.6	0.0056
RR-2	12/11/2012	7.20	0.03	-102.5	NA	NA	NA	NM	NA
RR-2	3/12/2013	7.16	3.30	-39	NA	NA	NA	NM	NA
RR-2	6/11/2013	11.48	2.93	-270	NA	NA	NA	NM	NA
RR-2	9/25/2013	7.08	4.92	2.5	0.9 U	1800	92	0.2	0.0027
RR-2	12/4/2013	7.50	8.01	39.6	NA	NA	NA	NM	NA
RR-2	3/5/2014	7.09	5.85	128	NA	NA	NA	NM	NA
RR-2	6/10/2014	7.84	0.08	-265	NA	NA	NA	NM	NA
RR-2	9/23/2014	6.86	0.00	85	0.9 U	1800	81	1.0	0.0036
RR-2	12/17/2014	7.17	0.00	50	NA	NA	NA	NM	NA
RR-2	3/24/2015	7.18	0.82	-34	NA	NA	NA	NM	NA
RR-2	6/15/2015	6.83	0.00	39	NA	NA	NA	NM	NA
RR-2	9/24/2015	7.08	0.00	-21	0.20 U	1700	95	0.5	0.010 U
RR-2	12/22/2015	7.41	0.00	-253	NA	NA	NA	NM	NA
RR-2	3/22/2016	6.88	0.00	-74	NA	NA	NA	NM	NA
RR-2	6/22/2016	7.08	0.81	11	NA	NA	NA	NM	NA
RR-2	9/20/2016	6.67	2.90	19	2.5 U	2050	88.2	0.5	NA
RR-2	12/7/2016	7.10	5.00	-77	NA	NA	NA	NM	NA
RR-2	3/21/2017	7.34	0.0	-321	NA	NA	NA	NM	NA
RR-2	6/22/2017	8.02	1.77	-81	NA	NA	NA	NM	NA
RR-2	9/19/2017	7.45	2.76	1	20 U	2100	91	0.5	0.0035 J
RR-2	12/13/2017	7.01	0.00	-76	NA	NA	NA	NM	NA
RR-2	3/19/2018	7.18	2.11	-15	NA	NA	NA	NM	NA
RR-2	6/19/2018	6.95	0.00	195	NA	NA	NA	NM	NA
RR-2	9/19/2018	6.85	0.56	-7	29 UJ	3200	95	0.0	0.0042 J
RR-2	12/10/2018	6.86	6.97	40	NA	NA	NA	NM	NA
RR-2	3/12/2019	7.26	1.87	-279	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
RR-2	6/18/2019	6.60	0.00	8	NA	NA	NA	NM	NA
RR-2	9/11/2019	6.64	2.01	79	29 U	1700	5.0 U	0.0	0.0023 U
RR-2	12/11/2019	7.50	6.17	41	NA	NA	NA	NM	NA
RR-2	3/24/2020	6.82	0.00	-179	NA	NA	NA	NM	NA
RR-2	6/23/2020	6.79	1.64	3	NA	NA	NA	NM	NA
RR-2	9/21/2020	6.54	1.94	59	7.4 J	2000	87	0.0	0.0023 U
RR-2	12/14/2020	7.02	4.77	74	NA	NA	NA	NM	NA
RR-2	3/30/2021	6.78	5.97	-98	NA	NA	NA	NM	NA
RR-2	6/23/2021	6.99	1.50	21	NA	NA	NA	NM	NA
RR-2	9/14/2021	7.24	0.31	-62	29 U	1800	86	0.0	0.0023 U
RR-2	12/7/2021	6.85	0.00	39	NA	NA	NA	NM	NA
RR-2	2/9/2022	7.27	0.00	-386	NA	NA	NA	NM	NA
RR-2	5/4/2022	7.01	0.00	-179	NA	NA	NA	NM	NA
RR-2	8/2/2022	7.17	0.00	-97	0.030 U	730	87	0.5	0.0023 U
RR-2	4/12/2023	6.64	3.40	76.5	NA	NA	NA	NM	NA
RR-2	10/4/2023	7.13	2.25	-6.0	1.30 J	2500	91	0.31	0.0024 J
RR-3	8/2/2005	6.52	11.73	157	NA	NA	NA	NM	NA
RR-3	11/7/2005	7.38	6.70	-232.1	NA	NA	NA	NM	NA
RR-3	2/7/2006	6.93	2.76	-56.1	NA	NA	NA	NM	NA
RR-3	8/3/2006	6.69	5.19	72	NA	NA	NA	NM	NA
RR-3	10/31/2006	7.07	5.22	-69.1	NA	NA	NA	0.6	NA
RR-3	11/27/2006	6.96	7.22	-71.5	NA	NA	NA	0.0	NA
RR-3	12/18/2006	8.49	3.93	-229.4	NA	NA	NA	NM	NA
RR-3	5/7/2007	6.81	0.05	-37.7	NA	NA	NA	1.4	NA
RR-3	7/30/2007	6.81	4.50	161	NA	NA	NA	0.0	NA
RR-3	11/5/2007	6.62	4.82	-53.9	NA	NA	NA	0.4	NA
RR-3	2/15/2008	6.95	0.05	-116.8	NA	NA	NA	0.0	NA
RR-3	5/6/2008	7.07	0.22	-69.6	NA	NA	NA	0.0	NA
RR-3	8/12/2008	7.23	1.63	-158.8	NA	NA	NA	NM	NA
RR-3	11/13/2008	7.37	0.79	NM	NA	NA	NA	NM	NA
RR-3	5/12/2009	7.10	0.11	-185.18	NA	NA	NA	NM	NA
RR-3	8/13/2009	7.02	0.04	-18	NA	NA	NA	NM	NA
RR-3	11/13/2009	7.31	0.12	-28.7	4.5 U	1900	NA	1.0	NA
RR-3	03/23/2010	7.05	0.00	-285	NA	NA	NA	0.0	NA
RR-3	06/08/2010	6.87	3.34	235	NA	NA	NA	NM	NA
RR-3	9/14/2010	6.62	1.64	-72	0.9 U	1800	93	0.7	0.0034
RR-3	12/20/2010	6.94	7.45	360	NA	NA	NA	NM	NA
RR-3	3/11/2011	6.92	2.92	61	NA	NA	NA	NM	NA
RR-3	6/13/2011	7.25	3.14	-58	NA	NA	NA	NM	NA
RR-3	09/27/2011	6.73	3.93	143	0.9 U	1700	92	0.0	0.002 U
RR-3	12/6/2011	6.91	1.72	-60	NA	NA	NA	NM	NA
RR-3	4/4/2012	7.29	7.01	90	NA	NA	NA	NM	NA
RR-3	6/14/2012	6.85	1.15	193.8	NA	NA	NA	NM	NA
RR-3	9/11/2012	6.72	2.70	87.7	0.9 U	1900	100	0.0	0.0046
RR-3	12/11/2012	7.55	12.87	--	NA	NA	NA	NM	NA
RR-3	3/12/2013	7.38	6.90	72	NA	NA	NA	NM	NA
RR-3	6/11/2013	7.18	3.57	59	NA	NA	NA	NM	NA
RR-3	9/25/2013	6.78	4.25	130	0.9 U	1900	85	0.0	0.002 U
RR-3	12/4/2013	7.25	6.16	68	NA	NA	NA	NM	NA
RR-3	3/5/2014	7.15	5.63	50	NA	NA	NA	NM	NA
RR-3	6/10/2014	6.98	2.43	-77	NA	NA	NA	NM	NA
RR-3	9/23/2014	6.97	5.84	78	0.9 U	1800	88	0.5	0.002 U
RR-3	12/17/2014	7.40	5.65	65	NA	NA	NA	NM	NA
RR-3	3/24/2015	7.30	7.15	93	NA	NA	NA	NM	NA
RR-3	6/15/2015	7.30	2.68	69	NA	NA	NA	NM	NA
RR-3	9/24/2015	7.22	0.00	82	0.40 J	1800	95	0.0	0.010 U
RR-3	12/22/2015	7.26	0.67	53	NA	NA	NA	NM	NA
RR-3	3/22/2016	7.15	0.00	68	NA	NA	NA	NM	NA
RR-3	6/23/2016	7.55	3.10	-93	NA	NA	NA	NM	NA
RR-3	9/20/2016	6.83	4.99	8	2.5 U	2020	98.1	0.0	NA
RR-3	12/7/2016	7.25	6.80	52	NA	NA	NA	NM	NA
RR-3	3/21/2017	7.56	0.0	-150	NA	NA	NA	NM	NA
RR-3	6/22/2017	7.25	3.39	86	NA	NA	NA	NM	NA
RR-3	9/20/2017	9.72	5.04	-201	20.0 U	2100	87	0.0	0.010 U
RR-3	9/19/2018	6.89	4.17	86	200 U	3700	96	0.0	0.010 U
RR-3	9/11/2019	6.86	3.48	102	57 U	2000	81	0.0	0.054 J
RR-3	9/21/2020	6.65	5.69	90	6.7 J	1800	90	0.0	0.0023 U
RR-3	9/14/2021	7.21	5.07	120	57 U	1800	88	0.0	0.0023 U
RR-3	8/2/2022	7.12	2.83	-92	0.030 U	730	91	0.0	0.0023 U
RR-3	10/4/2023	7.05	4.42	47	1.40 J	2300	93	0.55	0.0039 J
RR-4	10/05/2011	6.84	0.00	-187	0.9 U	1800	91	0.2	0.031
RR-4	12/7/2011	6.60	1.49	-75	NA	NA	NA	NM	NA
RR-4	4/6/2012	6.96	4.22	50	NA	NA	NA	NM	NA
RR-4	6/13/2012	6.29	0.56	-89.9	NA	NA	NA	NM	NA
RR-4	9/12/2012	7.98	0.00	-325	0.9 U	1700 J	180	0.4	0.031

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RR-4	12/12/2012	6.48	2.47	40.3	NA	NA	NA	NM	NA
RR-4	3/14/2013	7.44	0.43	-273.2	NA	NA	NA	NM	NA
RR-4	6/10/2013	7.10	0.23	-110	NA	NA	NA	NM	NA
RR-4	9/26/2013	6.64	0.00	-220	0.9 U	1900	85	1.4	0.045
RR-4	12/3/2013	6.79	3.50	68	NA	NA	NA	NM	NA
RR-4	3/3/2014	6.83	5.99	105	NA	NA	NA	NM	NA
RR-4	6/11/2014	7.23	0.29	-267	NA	NA	NA	NM	NA
RR-4	9/22/2014	6.85	0.00	-67	0.9 U	2000	57	1.0	0.048
RR-4	12/17/2014	6.60	1.45	141	NA	NA	NA	NM	NA
RR-4	3/23/2015	7.18	6.54	23	NA	NA	NA	NM	NA
RR-4	6/16/2015	6.90	0.00	-31	NA	NA	NA	NM	NA
RR-4	9/23/2015	7.25	0.00	-240	0.20 U	1900	81	0.5	0.054
RR-4	12/22/2015	7.04	7.00	194	NA	NA	NA	NM	NA
RR-4	3/22/2016	6.56	0.0	154	NA	NA	NA	NM	NA
RR-4	6/21/2016	7.06	0.00	-252	NA	NA	NA	NM	NA
RR-4	9/19/2016	6.39	1.60	-84	0.10 U	2040	72.3	NM	NA
RR-4	12/6/2016	6.62	2.49	107	NA	NA	NA	NM	NA
RR-4	3/22/2017	6.93	0.0	97	NA	NA	NA	NM	NA
RR-4	6/21/2017	6.31	3.13	3	NA	NA	NA	NM	NA
RR-4	9/18/2017	6.37	1.50	-78	20 U	2000	69	0.5	0.014
RR-4	12/12/2017	6.45	0.00	21	NA	NA	NA	NM	NA
RR-4	3/20/2018	7.97	4.10	14	NA	NA	NA	NM	NA
RR-4	6/19/2018	6.52	0.84	32	NA	NA	NA	NM	NA
RR-4	9/18/2018	6.16	7.38	-47	11 J	2300	76	1.5	0.020
RR-4	12/10/2018	6.99	7.98	69	NA	NA	NA	NM	NA
RR-4	3/12/2019	6.93	0.00	39	NA	NA	NA	NM	NA
RR-4	6/17/2019	6.60	0.00	-74	NA	NA	NA	NM	NA
RR-4	9/9/2019	7.04	0.00	-160	5.7 UJ	2000	76	1.0	0.018
RR-4	12/10/2019	7.54	2.99	-193	NA	NA	NA	NM	NA
RR-4	3/23/2020	7.17	1.09	-205	NA	NA	NA	NM	NA
RR-4	6/23/2020	6.76	0.94	-231	NA	NA	NA	NM	NA
RR-4	9/21/2020	6.60	2.89	17	11 J	1500	73	1.0	0.0079 J
RR-4	12/15/2020	7.36	5.38	-63	NA	NA	NA	NM	NA
RR-4	3/30/2021	6.61	0.00	-123	NA	NA	NA	NM	NA
RR-4	6/22/2021	6.53	5.07	2	NA	NA	NA	NM	NA
RR-4	9/13/2021	6.81	0.67	38	6.5 J	1800	76	0.5	0.012
RR-4	12/6/2021	6.93	0.00	85	NA	NA	NA	NM	NA
RR-4	2/8/2022	6.61	9.50	-22	NA	NA	NA	NM	NA
RR-4	5/3/2022	6.85	0.03	-240	NA	NA	NA	NM	NA
RR-4	8/1/2022	6.58	0.00	-168	8.3	1800	78	1.0	0.0073 J
RR-4	4/11/2023	6.59	4.72	-2.9	NA	NA	NA	NM	NA
RR-4	10/3/2023	6.65	3.74	81.0	11.0	2200	71	0.20	0.0054 J
RR-5	6/14/2011	6.84	0.00	-197	NA	NA	NA	NM	NA
RR-5	10/03/2011	5.57	0.92	101	16	620	56	2.2	0.39
RR-5	12/7/2011	5.85	0.00	180	NA	NA	NA	NM	NA
RR-5	4/3/2012	6.63	0.00	151	NA	NA	NA	NM	NA
RR-5	6/14/2012	6.13	1.12	55.3	NA	NA	NA	NM	NA
RR-5	9/12/2012	7.15	0.00	-145	4.2	1900 J	100	1.0	0.17
RR-5	12/13/2012	6.07	0.94	13	NA	NA	NA	NM	NA
RR-5	3/14/2013	6.83	0.19	-161	NA	NA	NA	NM	NA
RR-5	6/11/2013	6.65	1.25	30.8	NA	NA	NA	NM	NA
RR-5	10/8/2013	6.25	0.00	-337	0.9 U	440	370	NM	0.33
RR-5	12/2/2013	6.54	0.00	-369	NA	NA	NA	NM	NA
RR-5	3/4/2014	6.29	0.00	7	NA	NA	NA	NM	NA
RR-5	6/11/2014	6.79	0.10	-319	NA	NA	NA	NM	NA
RR-5	9/22/2014	5.80	0.00	-55	11	670	5 U	1.0	0.62
RR-5	12/17/2014	6.32	0.13	29	NA	NA	NA	NM	NA
RR-5	3/23/2015	6.40	0.19	-12	NA	NA	NA	NM	NA
RR-5	6/16/2015	5.80	0.00	24	NA	NA	NA	NM	NA
RR-5	9/22/2015	6.81	0.00	-313	1.0 U	380	140	5.0	0.16
RR-5	11/19/2015	6.32	0.00	-239	NA	NA	NA	NM	NA
RR-5	12/22/2015	7.00	0.21	-11	NA	NA	NA	NM	NA
RR-5	3/22/2016	6.20	0.0	174	NA	NA	NA	NM	NA
RR-5	6/22/2016	6.95	0.00	-333	NA	NA	NA	NM	NA
RR-5	9/20/2016	6.24	1.37	-313	4.7	1420	156	0.5	NA
RR-5	12/6/2016	5.90	0.0	90	NA	NA	NA	NM	NA
RR-5	3/21/2017	6.36	2.4	124	NA	NA	NA	NM	NA
RR-5	6/21/2017	5.05	2.5	-159	NA	NA	NA	NM	NA
RR-5	9/20/2017	6.30	0.5	-326	20 U	1500	170	1.0	0.18
RR-5	12/13/2017	5.46	0.00	30	NA	NA	NA	NM	NA
RR-5	3/19/2018	6.01	3.12	13	NA	NA	NA	NM	NA
RR-5	6/18/2018	5.66	0.81	-168.4	NA	NA	NA	NM	NA
RR-5	9/19/2018	6.27	0.14	-290	29 UJ	2900	140	1.5	0.054
RR-5	12/11/2018	6.70	1.70	-170	NA	NA	NA	NM	NA

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Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
RR-5	3/13/2019	6.51	2.58	-4	NA	NA	NA	NM	NA
RR-5	6/17/2019	6.15	0.00	-328	NA	NA	NA	NM	NA
RR-5	9/10/2019	7.76	0.00	-294	29 U	1400	91	1.0	0.064 J
RR-5	12/11/2019	6.23	0.26	-301	NA	NA	NA	NM	NA
RR-5	3/24/2020	6.53	5.06	-333	NA	NA	NA	NM	NA
RR-5	6/23/2020	5.85	0.97	-223	NA	NA	NA	NM	NA
RR-5	9/22/2020	5.76	0.15	122	8.7 J	920	84	0.5	0.057
RR-5	12/14/2020	6.32	0.48	-273	NA	NA	NA	NM	NA
RR-5	3/29/2021	6.35	7.44	-299	NA	NA	NA	NM	NA
RR-5	6/22/2021	6.12	0.21	-296.1	NA	NA	NA	NM	NA
RR-5	9/13/2021	6.55	6.54	-314	5.7 U	1500	110	1.5	0.027
RR-5	12/6/2021	6.38	0.77	-89	NA	NA	NA	NM	NA
RR-5	2/8/2022	6.45	40.6	-32	NA	NA	NA	NM	NA
RR-5	5/3/2022	6.14	0.0	-104	NA	NA	NA	NM	NA
RR-5	8/1/2022	6.24	0.27	-287	6.8	1300	68	3.0	0.065
RR-5	4/12/2023	6.05	7.40	93.4	NA	NA	NA	NM	NA
RR-5	10/3/2023	6.21	0.01	-138.0	0.940	230	130	0.22	0.0061 J
RR-6	6/14/2011	6.55	4.39	169	NA	NA	NA	NM	NA
RR-6	10/03/2011	6.58	2.35	219	0.9 U	3000	74	0.0	0.0074
RR-6	12/6/2011	6.64	0.00	236	NA	NA	NA	NM	NA
RR-6	4/3/2012	6.91	5.10	1112	NA	NA	NA	NM	NA
RR-6	6/13/2012	6.56	4.50	102.4	NA	NA	NA	NM	NA
RR-6	9/12/2012	6.56	4.31	71.7	0.9 U	1300 J	84	0.0	0.0052
RR-6	12/13/2012	6.42	0.89	105.7	NA	NA	NA	NM	NA
RR-6	3/13/2013	7.15	1.04	-48.9	NA	NA	NA	NM	NA
RR-6	6/10/2013	7.19	6.31	39.2	NA	NA	NA	NM	NA
RR-6	9/27/2013	6.80	2.99	146	0.9 U	1400	75	0.0	0.0049
RR-6	12/4/2013	7.05	7.39	106	NA	NA	NA	NM	NA
RR-6	3/4/2014	6.90	4.22	162	NA	NA	NA	NM	NA
RR-6	6/11/2014	6.63	8.28	98	NA	NA	NA	NM	NA
RR-6	9/24/2014	7.01	5.01	36	0.9 U	2000	71	0.0	0.0022
RR-6	12/17/2014	6.86	2.18	140	NA	NA	NA	NM	NA
RR-6	3/23/2015	6.72	4.72	159	NA	NA	NA	NM	NA
RR-6	6/16/2015	6.69	3.84	42	NA	NA	NA	NM	NA
RR-6	9/23/2015	6.64	1.38	105	0.56 J	3000	89	0.0	0.010 U
RR-6	12/23/2015	7.01	4.78	178	NA	NA	NA	NM	NA
RR-6	3/21/2016	6.19	0.00	80	NA	NA	NA	NM	NA
RR-6	6/21/2016	7.32	2.79	-200	NA	NA	NA	NM	NA
RR-6	9/19/2016	6.80	3.79	-204	2.7	1900	91.3	0.0	NA
RR-6	12/6/2016	6.56	2.88	108	NA	NA	NA	NM	NA
RR-6	3/21/2017	6.72	2.40	115	NA	NA	NA	NM	NA
RR-6	6/21/2017	6.84	2.66	98	NA	NA	NA	NM	NA
RR-6	9/18/2017	6.72	3.97	184	20 U	2000	80	0.0	0.010 U
Lower Sand Unit									
DMW-1	8/11/2004	6.93	3.54	-316	NA	NA	NA	NM	NA
DMW-1	10/28/2004	6.86	4.60	-291	NA	NA	NA	NM	NA
DMW-1	2/7/2005	6.93	3.60	-237	NA	NA	NA	NM	NA
DMW-1	5/10/2005	7.20	3.78	-264	NA	NA	NA	NM	NA
DMW-1	8/2/2005	7.32	5.07	-225	NA	NA	NA	NM	NA
DMW-1	11/7/2005	6.91	0.37	-225.5	NA	NA	NA	NM	NA
DMW-1	2/7/2006	7.00	0.28	-223.4	NA	NA	NA	NM	NA
DMW-1	5/1/2006	7.32	0.72	-270.7	NA	NA	NA	NM	NA
DMW-1	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
DMW-1	8/14/2009	7.83	0.00	-246	NA	NA	NA	NM	NA
DMW-1	9/14/2010	6.88	0.46	-363	0.9 U	360	520	1.70	NA
DMW-1	09/29/2011	7.06	0.00	-286	0.9 UJ	520 J	350 J	0.00	NA
DMW-1	9/10/2012	8.50	0.06	-284.5	0.9 U	640	310	0.60	NA
DMW-1	9/25/2013	6.97	0.00	-309	9 U	700	360	0.00	NA
DMW-1	9/24/2014	7.24	0.00	-358	0.9 U	570	430	0.00	NA
DMW-1	9/22/2015	7.56	0.00	-370	0.20 U	450	470	1.0	NA
DMW-1	11/19/2015	6.88	0.38	-315.5	NA	NA	NA	NM	NA
DMW-1	9/21/2016	6.97	1.51	-394	1.0 U	590	539	1.0	NA
DMW-1	9/20/2017	8.26	1.17	-342	10 U	590	460	1.0	NA
DMW-1	9/19/2018	7.20	0.77	-311	100 U	640	440	0.5	NA
DMW-1	9/9/2019	7.54	0.00	-320	29 U	550	490	0.5	NA
DMW-1	9/22/2020	6.92	0.00	-327	3.3 J	490	450	1.5	NA
DMW-1	9/14/2021	7.51	3.25	-325	2.9 U	6.4 U	380	0.5	0.41
DMW-1	8/3/2022	7.49	5.36	-375	1.3	390	550	0.0	0.27
DMW-1	10/4/2023	7.20	0.90	-308	0.870 J	710	450	0.24	0.240
DMW-2	8/11/2004	8.23	3.01	-114	NA	NA	NA	NM	NA
DMW-2	10/28/2004	7.38	8.07	-200	NA	NA	NA	NM	NA
DMW-2	2/7/2005	6.79	3.88	-304	NA	NA	NA	NM	NA
DMW-2	5/10/2005	7.70	4.02	-278	NA	NA	NA	NM	NA
DMW-2	8/2/2005	7.19	0.00	-220	NA	NA	NA	NM	NA
DMW-2	11/7/2005	7.40	0.11	-375.9	NA	NA	NA	NM	NA

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DMW-2	2/7/2006	7.75	0.38	-324.5	NA	NA	NA	NM	NA
DMW-2	5/1/2006	7.71	0.50	-304.2	NA	NA	NA	NM	NA
DMW-2	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
DMW-2	8/13/2009	7.92	0.06	-264	NA	NA	NA	NM	NA
DMW-2	9/14/2010	7.51	2.47	-187	0.9 U	550	380	0.00	NA
DMW-2	09/30/2011	7.59	0.00	-182	0.9 U	1800	430	0.00	NA
DMW-2	4/5/2012	7.28	0.00	-194	NA	NA	NA	NM	NA
DMW-2	6/14/2012	6.97	0.71	-188.5	NA	NA	NA	NM	NA
DMW-2	9/13/2012	6.80	0.00	-285	0.9 U	230	410	0.00	NA
DMW-2	12/13/2012	6.92	1.10	-103.6	NA	NA	NA	NM	NA
DMW-2	3/12/2013	7.61	0.00	-222	NA	NA	NA	NM	NA
DMW-2	6/12/2013	7.59	0.33	-211.2	NA	NA	NA	NM	NA
DMW-2	9/25/2013	6.96	0.00	-231	0.9 U	450	410	0.80	NA
DMW-2	12/4/2013	7.29	0.00	-181	NA	NA	NA	NM	NA
DMW-2	3/6/2014	7.00	0.00	-119	NA	NA	NA	NM	NA
DMW-2	6/9/2014	7.15	0.00	-235	NA	NA	NA	NM	NA
DMW-2	9/23/2014	7.33	8.70	-257	0.9 U	420	400	0.00	NA
DMW-2	12/15/2014	7.12	0.00	-42	NA	NA	NA	NM	NA
DMW-2	3/25/2015	7.23	0.00	-168	NA	NA	NA	NM	NA
DMW-2	6/15/2015	7.47	0.00	-232	NA	NA	NA	NM	NA
DMW-2	9/23/2015	6.82	0.00	-153	0.20 U	320	390	2.3	NA
DMW-2	12/22/2015	7.40	0.25	-76	NA	NA	NA	NM	NA
DMW-2	3/23/2016	6.98	0.00	-200	NA	NA	NA	NM	NA
DMW-2	6/22/2016	7.86	0.68	-226	NA	NA	NA	NM	NA
DMW-2	9/20/2016	7.12	0.99	-323	2.5 U	656	392	2.0	NA
DMW-2	12/8/2016	6.77	0.00	-130	NA	NA	NA	NM	NA
DMW-2	3/21/2017	7.27	0.0	-286	NA	NA	NA	NM	NA
DMW-2	6/21/2017	5.52	2.07	-187	NA	NA	NA	NM	NA
DMW-2	9/19/2017	10.84	1.78	-286	10 U	460	390	0.5	NA
DMW-2	12/12/2017	7.10	0.00	-188	NA	NA	NA	NM	NA
DMW-2	3/20/2018	8.41	0.44	-318	NA	NA	NA	NM	NA
DMW-2	6/19/2018	7.70	0.00	-141	NA	NA	NA	NM	NA
DMW-2	9/18/2018	7.36	0.02	-283	10 U	700	370	NM	NA
DMW-2	12/11/2018	7.63	1.96	-181	NA	NA	NA	NM	NA
DMW-2	3/13/2019	7.19	1.53	-275	NA	NA	NA	NM	NA
DMW-2	6/18/2019	7.29	0.00	-286	NA	NA	NA	NM	NA
DMW-2	9/11/2019	6.97	0.00	-242	2.9 U	400	400	0.5	NA
DMW-2	12/10/2019	7.82	0.00	-283	NA	NA	NA	NM	NA
DMW-2	3/24/2020	7.32	0.00	-355	NA	NA	NA	NM	NA
DMW-2	6/24/2020	7.10	0.81	-306	NA	NA	NA	NM	NA
DMW-2	9/23/2020	7.13	0.00	-299	5.0 J	510	360	0.0	NA
DMW-2	12/14/2020	7.51	0.00	-134	NA	NA	NA	NM	NA
DMW-2	3/30/2021	7.15	0.51	-168	NA	NA	NA	NM	NA
DMW-2	6/22/2021	6.50	1.70	-143	NA	NA	NA	NM	NA
DMW-2	9/14/2021	7.44	0.00	-302	2.9 U	500	390	0.5	0.22
DMW-2	12/6/2021	7.40	0.00	-194	NA	NA	NA	NM	NA
DMW-2	2/8/2022	8.04	1.03	-204	NA	NA	NA	NM	NA
DMW-2	5/3/2022	7.08	0.00	-315	NA	NA	NA	NM	NA
DMW-2	8/2/2022	7.23	0.00	-312	1.0	350	410	0.0	0.24
DMW-2	4/11/2023	6.92	0.34	-135.6	NA	NA	NA	NM	NA
DMW-2	10/3/2023	7.45	8.15	-293	0.57 J	500	410	0.05	0.180
DMW-3	8/10/2004	7.21	2.07	117	NA	NA	NA	NM	NA
DMW-3	10/29/2004	6.73	6.52	-163	NA	NA	NA	NM	NA
DMW-3	2/7/2005	6.96	3.49	-142	NA	NA	NA	NM	NA
DMW-3	5/11/2005	6.62	4.02	-104	NA	NA	NA	NM	NA
DMW-3	8/2/2005	6.97	4.54	-152	NA	NA	NA	NM	NA
DMW-3	11/7/2005	6.93	0.11	-222	NA	NA	NA	NM	NA
DMW-3	2/7/2006	6.85	0.30	133.2	NA	NA	NA	NM	NA
DMW-3	5/1/2006	6.73	0.96	-154.3	NA	NA	NA	NM	NA
DMW-3	11/13/2008	6.89	0.02	-187.5	NA	NA	NA	NM	NA
DMW-3	2/26/2009	6.90	0.04	-97.5	NA	NA	NA	NM	NA
DMW-3	5/13/2009	6.81	0.05	-145.53	NA	NA	NA	NM	NA
DMW-3	8/12/2009	7.35	0.01	-137	NA	NA	NA	NM	NA
DMW-3	3/26/2010	6.29	0.00	-113	NA	NA	NA	2.3	NA
DMW-3	06/11/2010	6.45	3.26	144	NA	NA	NA	NM	NA
DMW-3	9/16/2010	6.84	3.65	-299	0.9 U	110	320	2.0	NA
DMW-3	10/04/2011	7.01	0.00	-118	0.9 U	86	310	3.9	NA
DMW-3	9/10/2012	7.59	0.05	-108.2	0.9 U	50	350	5.6	NA
DMW-3	9/26/2013	7.31	1.80	-115.7	0.9 U	27	410	2.2	NA
DMW-3	9/25/2014	7.13	0.00	-162	0.9 U	8.2	480	0.0	NA
DMW-3	9/23/2015	7.42	0.00	-169	0.20 U	1.2 U	500	6.0	NA
DMW-3	9/22/2016	6.79	1.58	-202	0.10 U	0.50 U	508 J	5.0	NA
DMW-3	9/21/2017	6.83	0.60	-125	0.20 U	0.50 U	390	2.5	NA
DMW-3	9/18/2018	6.99	0.00	-129	0.20 U	0.18 J	320	6.5	NA

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DMW-3	9/9/2019	8.31	0.00	-135	R	20	440	2.5	NA
DMW-3	9/22/2020	6.79	0.00	-147	0.25	7.0	350	2.5	NA
DMW-3	9/14/2021	7.18	0.00	-161	0.057 U	0.29 J	340	1.0	0.86
DMW-3	8/3/2022	6.89	6.43	-163	0.030 J	0.80	370	1.5	0.92
DMW-3	10/4/2023	7.02	0.00	-114	0.230 U	7.00	300	>	0.390
DMW-4	8/11/2004	6.42	11.79	-239	NA	NA	NA	NM	NA
DMW-4	10/28/2004	7.46	6.79	-168	NA	NA	NA	NM	NA
DMW-4	2/7/2005	7.44	3.06	-282	NA	NA	NA	NM	NA
DMW-4	5/10/2005	7.29	4.20	-204	NA	NA	NA	NM	NA
DMW-4	8/2/2005	8.03	5.63	-336	NA	NA	NA	NM	NA
DMW-4	11/7/2005	7.65	0.48	-352.1	NA	NA	NA	NM	NA
DMW-4	2/7/2006	7.54	0.13	-244.5	NA	NA	NA	NM	NA
DMW-4	5/1/2006	7.38	0.49	-324.6	NA	NA	NA	NM	NA
DMW-4	11/12/2008	8.13	0.09	-310.2	NA	NA	NA	NM	NA
DMW-4	2/25/2009	6.44	0.26	-284.4	NA	NA	NA	NM	NA
DMW-4	5/13/2009	7.98	0.14	-307.53	NA	NA	NA	NM	NA
DMW-4	8/11/2009	7.95	0.01	-310	NA	NA	NA	NM	NA
DMW-4	3/24/2010	7.71	0.00	-322	NA	NA	NA	NM	NA
DMW-4	06/08/2010	7.82	3.67	-400	NA	NA	NA	NM	NA
DMW-4	9/14/2010	7.59	3.09	395	0.9 U	230	380	0.0	NA
DMW-4	12/20/2010	7.74	4.04	-351	NA	NA	NA	NM	NA
DMW-4	3/8/2011	8.26	0.00	-296	NA	NA	NA	NM	NA
DMW-4	6/14/2011	8.12	0.00	-377	NA	NA	NA	NM	NA
DMW-4	10/05/2011	7.60	0.00	-285	0.9 U	480	300	0.0	NA
DMW-4	12/5/2011	7.81	0.00	-322	NA	NA	NA	NM	NA
DMW-4	4/5/2012	7.95	0.00	-339	NA	NA	NA	NM	NA
DMW-4	6/12/2012	7.52	0.07	-294.4	NA	NA	NA	NM	NA
DMW-4	9/11/2012	7.96	0.00	-342	0.9 U	330	260	0.0	NA
DMW-4	12/12/2012	7.93	0.04	-272.4	NA	NA	NA	NM	NA
DMW-4	3/12/2013	7.90	0.02	-300.4	NA	NA	NA	NM	NA
DMW-4	6/11/2013	8.23	2.96	-293	NA	NA	NA	NM	NA
DMW-4	9/23/2013	7.64	14.47	-247.4	9 U	630	250	0.0	NA
DMW-4	12/4/2013	8.49	4.93	-276.6	NA	NA	NA	NM	NA
DMW-4	3/3/2014	7.83	0.00	-326	NA	NA	NA	NM	NA
DMW-4	6/10/2014	8.07	0.07	-397	NA	NA	NA	NM	NA
DMW-4	9/24/2014	7.95	5.24	-381	0.9 U	590	240	0.0	NA
DMW-4	12/16/2014	7.78	0.23	-262	NA	NA	NA	NM	NA
DMW-4	3/23/2015	7.82	3.16	-319	NA	NA	NA	NM	NA
DMW-4	6/16/2015	8.11	0.00	-378	NA	NA	NA	NM	NA
DMW-4	9/21/2015	7.37	0.00	-307	0.20 U	220	320	0.0	NA
DMW-4	12/21/2015	7.49	0.40	-94	NA	NA	NA	NM	NA
DMW-4	3/21/2016	7.61	0.0	-254	NA	NA	NA	NM	NA
DMW-4	6/21/2016	8.95	11.4	-342	NA	NA	NA	NM	NA
DMW-4	9/22/2016	7.26	1.47	-373	2.5 U	883	285	0.0	NA
DMW-4	12/7/2016	7.64	5.01	-306	NA	NA	NA	NM	NA
DMW-4	3/20/2017	7.67	1.71	-257	NA	NA	NA	NM	NA
DMW-4	6/20/2017	5.99	2.55	-286	NA	NA	NA	NM	NA
DMW-4	9/20/2017	7.52	0.36	-341	10 U	720	250	0.0	NA
DMW-4	12/11/2017	7.29	0.00	-210	NA	NA	NA	NM	NA
DMW-4	3/20/2018	8.08	0.00	-109	NA	NA	NA	NM	NA
DMW-4	6/18/2018	7.65	0.28	-275.7	NA	NA	NA	NM	NA
DMW-4	9/17/2018	7.39	0.03	-324	2.9 UJ	900	290	0.0	NA
DMW-4	12/12/2018	7.10	11.56	-308	NA	NA	NA	NM	NA
DMW-4	3/12/2019	7.59	2.64	-318	NA	NA	NA	NM	NA
DMW-4	6/17/2019	7.29	0.00	-322	NA	NA	NA	NM	NA
DMW-4	9/11/2019	8.83	0.00	-335	2.9 U	1300	220	0.5	NA
DMW-4	12/10/2019	7.38	0.26	-249	NA	NA	NA	NM	NA
DMW-4	3/23/2020	7.98	0.00	-335	NA	NA	NA	NM	NA
DMW-4	6/23/2020	7.70	5.99	-358	NA	NA	NA	NM	NA
DMW-4	9/21/2020	7.69	0.00	-330	4.9 J	540	300	0.0	NA
DMW-4	12/15/2020	NS	NS	NS	NA	NA	NA	NM	NA
FW-1	8/10/2004	5.83	14.76	-129	NA	NA	NA	NM	NA
FW-1	10/28/2004	7.47	7.91	-16	NA	NA	NA	NM	NA
FW-1	2/7/2005	7.41	4.34	-94	NA	NA	NA	NM	NA
FW-1	5/10/2005	7.07	4.66	-56	NA	NA	NA	NM	NA
FW-1	8/2/2005	7.45	5.28	-150	NA	NA	NA	NM	NA
FW-1	11/7/2005	7.61	2.62	-122.2	NA	NA	NA	NM	NA
FW-1	2/7/2006	7.29	0.27	87.7	NA	NA	NA	NM	NA
FW-1	8/4/2006	7.58	2.58	-239.4	NA	NA	NA	NM	NA
FW-1	11/11/2008	NM	NM	NM	NA	NA	NA	NM	NA
FW-1	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
FW-1	8/14/2009	7.29	0.08	-177	NA	NA	NA	NM	NA

Table 4
Summary of Natural Attenuation Parameters
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
FW-2	8/10/2004	7.37	4.25	73	NA	NA	NA	NM	NA
FW-2	10/27/2004	6.80	7.70	40	NA	NA	NA	NM	NA
FW-2	2/7/2005	7.33	3.45	-38	NA	NA	NA	NM	NA
FW-2	5/10/2005	6.77	7.24	53	NA	NA	NA	NM	NA
FW-2	8/2/2005	7.04	7.55	-63	NA	NA	NA	NM	NA
FW-2	11/7/2005	7.51	0.20	-189.9	NA	NA	NA	NM	NA
FW-2	2/7/2006	7.34	0.12	-93.1	NA	NA	NA	NM	NA
FW-2	8/4/2006	7.19	2.41	-104	NA	NA	NA	3.4	NA
FW-2	11/11/2008	NM	NM	NM	NA	NA	NA	NM	NA
FW-2	5/11/2009	NM	NM	NM	NA	NA	NA	NM	NA
FW-2	8/11/2009	6.17	0.05	-74	NA	NA	NA	NM	NA
FW-13	8/11/2004	6.91	5.42	-1	NA	NA	NA	NM	NA
FW-13	10/28/2004	7.43	5.72	-192	NA	NA	NA	NM	NA
FW-13	2/7/2005	7.16	3.95	6	NA	NA	NA	NM	NA
FW-13	5/10/2005	7.89	4.34	-243	NA	NA	NA	NM	NA
FW-13	8/2/2005	7.25	0.00	-132	NA	NA	NA	NM	NA
FW-13	11/7/2005	7.33	0.22	-181.5	NA	NA	NA	NM	NA
FW-13	2/7/2006	7.32	0.26	-83.9	NA	NA	NA	NM	NA
FW-13	5/1/2006	7.38	1.55	-162.6	NA	NA	NA	NM	NA
FW-13	8/4/2006	7.45	3.04	-205.6	2.00 UJ	0.400 U	NA	3.2	NA
FW-13	11/12/2008	7.44	0.00	NM	7.44	1.100	NA	NM	NA
FW-13	2/26/2009	7.61	0.04	-127	NA	NA	NA	NM	NA
FW-13	5/13/2009	7.61	0.06	-134.6	NA	NA	NA	1.6	NA
FW-13	8/12/2009	7.74	0.02	-137	NA	NA	NA	NM	NA
FW-13	11/11/2009	7.30	0.00	-157	NA	NA	NA	NM	NA
FW-13	3/26/2010	6.71	0.00	-118	NA	NA	NA	1.5	NA
FW-13	06/09/2010	7.20	0.00	-62	NA	NA	NA	NM	NA
FW-13	9/16/2010	6.76	3.26	93	0.9 U	1.8	170	1.0	0.15
FW-13	12/20/2010	7.31	0.00	109	NA	NA	NA	NM	NA
FW-13	3/10/2011	7.19	0.00	-144	NA	NA	NA	NM	NA
FW-13	6/13/2011	7.40	0.00	-149	NA	NA	NA	NM	NA
FW-13	09/30/2011	7.22	0.00	-132	0.9 U	1.2 U	210	NM	0.19
FW-13	12/7/2011	7.46	1.58	-153	NA	NA	NA	NM	NA
FW-13	4/3/2012	7.45	0.00	-111	NA	NA	NA	NM	NA
FW-13	6/12/2012	7.31	0.07	-126	NA	NA	NA	NM	NA
FW-13	9/10/2012	7.49	0.74	-160.5	0.9 U	1.8	380	1.4	0.17
FW-13	12/11/2012	7.18	0.98	-46.8	NA	NA	NA	NM	NA
FW-13	3/13/2013	7.66	0.00	-198	NA	NA	NA	NM	NA
FW-13	6/11/2013	7.48	0.33	-119.2	NA	NA	NA	NM	NA
FW-13	9/25/2013	7.51	4.24	-72	0.9 U	1.3	180	0.2	0.11
FW-13	12/4/2013	7.50	0.00	-187	NA	NA	NA	NM	NA
FW-13	3/6/2014	7.35	0.00	-661	NA	NA	NA	NM	NA
FW-13	6/9/2014	7.39	0.02	-213	NA	NA	NA	NM	NA
FW-13	9/24/2014	7.63	1.70	-225	0.9 U	1.2 U	210	2.0	0.22
FW-13	12/15/2014	7.40	0.00	-133	NA	NA	NA	NM	NA
FW-13	3/24/2015	7.42	0.04	-36	NA	NA	NA	NM	NA
FW-13	6/15/2015	7.30	0.00	-144	NA	NA	NA	NM	NA
FW-13	9/24/2015	7.32	0.00	-168	0.2 U	1.2 U	230	4.3	0.27
FW-13	12/23/2015	7.09	0.00	-146	NA	NA	NA	NM	NA
FW-13	3/23/2016	7.24	0.0	-73	NA	NA	NA	NM	NA
FW-13	6/22/2016	7.80	0.00	-142	NA	NA	NA	NM	NA
FW-13	9/20/2016	7.34	1.18	-96	0.10 U	0.50 U	122 J	2.5	NA
FW-13	12/6/2016	7.22	0.00	-117	NA	NA	NA	NM	NA
FW-13	3/22/2017	7.29	1.35	-114	NA	NA	NA	NM	NA
FW-13	6/20/2017	7.72	0.00	-154	NA	NA	NA	NM	NA
FW-13	9/18/2017	7.15	0.51	-144	0.20 U	0.50 U	230	1.5	0.27
FW-13	12/11/2017	7.15	0.00	-26	NA	NA	NA	NM	NA
FW-13	3/20/2018	6.94	9.24	-109	NA	NA	NA	NM	NA
FW-13	6/19/2018	6.91	0.18	-151	NA	NA	NA	NM	NA
FW-13	9/19/2018	7.19	0.01	-159	3.2	0.38 J	170	6.5	0.24
FW-13	12/11/2018	7.06	4.53	-116	NA	NA	NA	NM	NA
FW-13	3/13/2019	7.40	0.00	-139	NA	NA	NA	NM	NA
FW-13	6/17/2019	7.28	0.00	-177	NA	NA	NA	NM	NA
FW-13	9/10/2019	8.74	0.00	-156	0.1 U	0.20 J	220	4.5	0.31
FW-13	12/10/2019	7.22	0.00	-164	NA	NA	NA	NM	NA
FW-13	3/24/2020	7.26	9.55	-218	NA	NA	NA	NM	NA
FW-13	6/23/2020	7.65	0.91	-199	NA	NA	NA	NM	NA
FW-13	9/22/2020	7.16	1.07	-164	0.070 J	0.52	230	3.5	0.28
FW-13	12/15/2020	7.22	0.00	-162	NA	NA	NA	NM	NA
FW-13	3/31/2021	7.24	1.16	51	NA	NA	NA	NM	NA
FW-13	6/22/2021	7.40	0.00	-133	NA	NA	NA	NM	NA
FW-13	9/14/2021	8.03	0.00	-155	0.057 U	0.18 J	170	4.0	0.23

Table 4
Summary of Natural Attenuation Parameters
Fourth Quarter 2006 through Fourth Quarter 2023
D Street Petroleum Site

Well ID	Date	pH	DO (mg/L)	ORP (mV)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	Dissolved Mn (mg/L)
FW-13	12/7/2021	7.07	2.00	-140	NA	NA	NA	NM	NA
FW-13	2/9/2022	8.04	0.07	-165	NA	NA	NA	NM	NA
FW-13	5/3/2022	7.22	0.00	-102	NA	NA	NA	NM	NA
FW-13	8/2/2022	7.24	0.02	-192	0.030 U	0.80 U	210	3.0	0.24
FW-13	4/12/2023	7.38	1.69	-114	NA	NA	NA	NM	NA
FW-13	10/3/2023	6.89	1.01	-141	0.078 J	0.13 U	240	>	0.320

Notes:

> - indicates that the field reading exceeded the range of the instrument

MNA parameters collected using downhole monitoring equipment except as noted

Dissolved oxygen (DO) values above 10 mg/L generally can be rejected, as they exceed the oxygen saturation point.

(a) = MNA parameters collected from first purge- downhole equipment did not fit inside monitoring well.

U - The analyte was analyzed for, but was not detected above the reported limit.

J - Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

UJ - The analyte was not detected at or above the reported limit; however, the reported limit is approximate because quality control criteria were not met.

R - The sample results are rejected. The presence or absence of the analyte cannot be verified.

NA = Not analyzed

NM - Not measured

mg/L - milligrams per liter

Mn = manganese

mV - millivolts (results are raw mV readings and have not been converted to E_H)

ORP = Oxidation Reduction Potential

R - The sample result was rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Wells E-22, FW-3, FW-4, FW-5R, FW-14, and T-2 are sentinel wells.

Table 5
Revised Well Network for Groundwater Performance Monitoring Program
D Street Petroleum Site

Well ID	Sampling Frequency	Parameters	Comments/Modifications
Upper Sand Unit - Assessment of Upgradient Conditions			
B-17B	Annual	BTEX, TPH, lead, NA Parameters ¹	
B-30	Removed	-	Removed after Q3 2017
B-31	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
E-21	Annual	BTEX, TPH, lead, NA Parameters ¹	Decrease to annual sampling, Q3 2017
Upper Sand Unit - Assessment of In-Plume Conditions			
B-19	Annual	BTEX, TPH, lead, NA Parameters ¹	Decrease to annual sampling, Q3 2017
B-25	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
B-34	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
G-8	Annual	BTEX, TPH, lead, NA Parameters ^{1,2}	Decrease to annual sampling, Q3 2016
G-16	Removed	-	Decreased to annual sampling, Q3 2013, removed after Q3 2017
G-18	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	Decrease to semi-annual sampling, Q3 2017
HC-111	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
RW-2	Annual	BTEX, TPH, lead, NA Parameters ¹	Decrease to annual sampling, Q3 2017
RW-5R	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
RW-8	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
T-3	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	Added Q2 2011, decrease to semi-annual sampling, Q3 2017
Upper Sand Unit - Surface Water Compliance			
E-22	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	sentinel, added Q2 2011
FW-3	Annual	BTEX, TPH, lead, NA Parameters ¹	sentinel
FW-4	Annual	BTEX, TPH, lead, NA Parameters ^{1,3}	sentinel
FW-5R	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2,3}	sentinel, added Q3 2011
FW-14	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2,3}	sentinel
FW-15	Annual	BTEX, TPH, lead, NA Parameters ¹	
RR-1	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	
RR-2	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2,3}	
RR-3	Annual	BTEX, TPH, lead, NA Parameters ^{1,3}	Decrease to annual sampling, Q3 2017
RR-4	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	Added Q3 2011
RR-5	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	Added Q2 2011
RR-6	Removed	-	Removed after Q3 2017
T-2	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	sentinel
Lower Sand Unit			
DMW-1	Annual	BTEX, TPH, lead, NA Parameters ¹	
DMW-2	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	Increased to qtrly sampling Q1 2012
DMW-3	Annual	BTEX, TPH, lead, NA Parameters ¹	
DMW-4	SA (stopped)	BTEX, TPH, lead, NA Parameters ^{1,2}	Destroyed prior to 4Q 2020
FW-13	Semi-annual	BTEX, TPH, lead, NA Parameters ^{1,2}	

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons as gasoline (TPH-G), diesel (TPH-D), and as heavy oil (TPH-O).

¹ = Natural attenuation parameters include sulfate, nitrate, manganese (Mn²⁺), and alkalinity. Ferrous iron (Fe²⁺), dissolved oxygen oxidation-reduction potential, pH, specific conductivity, and temperature will be analyzed in the field.

² = Lead (total and dissolved) and natural attenuation parameters sulfate, nitrate, Mn²⁺, alkalinity, and Fe²⁺ will be sampled on an annual basis.

³ = Naphthalenes (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) to be collected in select wells, RR-2, RR-3, FW-4, FW-5R, and FW-14.

Note that FW-4 and RR-3 are sampled on an annual basis only.

Table 6
Well Inventory and Construction Detail
D Street Petroleum Site

Well ID	Year Installed	Well Diameter (inches)	Coordinates (a)		TOC Elev.(b) (feet)	TOC Elev.(c) (feet)	TOC Elev.(d) (feet)	TOC Elev.(e) (feet)	Well Depth on log (feet)	Screen Length	Screened Interval	
			Northing (Y)	Easting (X)							Lower Depth (feet)	Upper Depth (feet)
Upper Sand Unit Wells												
B-1A	1989	2	707742.3843	1161068.2120	-	-	14.148	25.45	14	10	3	13
B-2	1982	2	708457.3630	1160744.1160	-	-	13.779	25.45	16	15	1	16
B-6	1982	1.5	707620.9167	1160854.1710	-	-	14.246	25.42	15.5	15	1	15.5
B-16	1982	1.5	707652.5883	1160932.7700	-	-	14.401	25.65	12.5	10	2.5	12.50
B-17B	1989	2	708049.5111	1160909.3920	-	-	14.158	25.41	15	10	5	15.00
B-19	1982	2	707473.9823	1160550.0650	-	-	13.308	25.11	U	U	U	U
B-20	1982	1.5	707418.2083	1160576.7230	-	-	13.480	23.85	U	U	U	U
B-25	1982	1.5	707910.0621	1160428.7930	-	-	13.962	24.62	U	U	U	U
B-30	1982	1.5	707516.9403	1160837.5920	-	-	14.461	25.25	U	U	U	U
B-31	1982	1.5	707699.5412	1160773.6520	-	-	14.460	25.30	U	U	U	U
B-34	1982	1.5	707761.2017	1160491.7820	-	-	14.360	25.03	U	U	U	U
E-2	1983	6	NA	NA	-	-	NA	U	U	U	U	U
E-4	1990	8	707413.9782	1160554.4020	-	-	12.089	U	U	U	U	U
E-6	1990	4	707522.5027	1160567.0300	-	-	12.139	23.01	U	U	U	U
E-11	1990	8	707161.8540	1160644.4090	-	-	NA	U	U	U	U	U
E-20	2008	2	NA	NA	-	-	NA	24.56	16.50	10	6	16
E-21	2008	2	707867.0009	1160756.3910	-	-	14.132	24.97	18.00	10	6	16
E-22	2011	4	707364.7064	1160475.0630	-	^	16.736	-	20.00	10	10	20
FW-3	1989	2	707509.1173	1160403.5279	14.11	-	-	23.64	10.00	8	2	10.00
FW-4	1989	2	707596.2540	1160370.9410		-	14.207	25.35	14	8.5	4	12.5
FW-5R	2011	4	707704.7089	1160342.4640	-	^	12.777	-	15	10	5	15
FW-7	1989	2	707899.9412	1160226.8390	-	-	13.328	23.18	14.00	7	7	14.00
FW-9	1989	2	708033.2432	1160611.0040	-	-	14.316	U	14	7.5	5	12.5
FW-14	1990	4	707803.0803	1160268.3300	-	-	13.174	23.98	14	7.5	6.5	14
FW-16	1990*	2	707038.0069	1160572.0100	-	-	12.350	23.89	U	U	U	U
G-1	1985	2	707200.3886	1160671.2644	13.43	-	-	23.95	14	10	3	13
G-8	1985	2	707244.2974	1160566.5770	^	-	13.253	23.6	15.50	10	5.5	15.50
G-16	1985	2	707527.4028	1160641.5280	^	-	13.232	24.12	15	10	4.5	14.5
G-18	1985	2	707633.4829	1160468.1860	^	-	13.540	24.35	14	10	2.5	12.5
G-20	1985	2	707629.0606	1160518.0200	^	-	13.105	24.00	15	10	4	14
HC-106	1985	2	707672.4945	1160650.0830	-	-	14.490	U	U	U	U	U
HC-107	1985	2	707693.1057	1160689.0090	-	-	15.333	U	U	U	U	U
HC-108	1985	2	707674.4245	1160713.1060	-	-	15.297	U	U	U	U	U
HC-109	1985	2	707631.4009	1160702.4810	-	-	14.936	U	U	U	U	U
HC-110	1985	2	707627.2450	1160669.9890	-	-	14.745	U	U	U	U	U
HC-111	1985	2	707641.0288	1160654.1910	-	-	14.616	U	U	U	U	U

Table 6
Well Inventory and Construction Detail
D Street Petroleum Site

Well ID	Year Installed	Well Diameter (inches)	Coordinates (a)		TOC Elev.(b) (feet)	TOC Elev.(c) (feet)	TOC Elev.(d) (feet)	TOC Elev.(e) (feet)	Well Depth on log (feet)	Screen Length	Screened Interval	
			Northing (Y)	Easting (X)							Lower Depth (feet)	Upper Depth (feet)
KB-3	(f)	2	707522.2112	1160934.9610	-	-	NA	U	U	U	U	U
MR-1	1986	6	707591.1011	1160575.1950	-	-	14.260	24.82	U	U	U	U
MW-2	1988	1.5	NA	NA	-	-	NA	U	12.3	2.5	9.5	12
R-5	(g)	8	707382.0122	1160511.1570	-	-	11.693	U	U	U	U	U
RW-1	1992	4	707139.1045	1160675.6870	-	-	12.942	26.24	15.5	10	5.5	15.5
RW-2	1992	4	707169.2381	1160663.0170	^	-	12.763	23.45	15.5	10	5.5	15.5
RW-5R	2005	2	707273.5916	1160609.6050	^	-	13.757	24.12	U	U	U	U
RW-7	1992	4	707358.1918	1160581.1700	^	-	12.456	23.76	15.5	10	5.5	15.5
RW-8	1992	4	707395.1940	1160565.0160	^	-	12.710	24.19	15.5	10	5.5	15.5
RW-9	1992	4	707431.2350	1160549.6420	-	-	12.587	23.69	16	10	6	16
RW-12	1992	4	707532.0253	1160492.3130	13.11	-	-	23.56	16	10	6	16
RW-13	1992	4	707564.0593	1160474.8610	-	-	13.939	23.65	15	10	5	15
RW-14	1992	4	707600.7502	1160458.8700	-	-	13.515	23.96	16	10.5	5.5	16
RW-15	1992	4	707643.7763	1160440.4630	-	-	13.153	23.80	16	10.5	5.5	16
RW-16	1992	4	707659.9165	1160406.0020	-	-	12.434	24.04	16	10.5	5.5	16
RW-17	1992	4	707701.3271	1160387.8150	-	-	12.293	23.78	16	10.5	5.5	16
RW-18	1992	4	707743.1067	1160370.0630	-	-	12.526	23.74	16	10.5	5.5	16
RW-19	1992	4	707781.4653	1160409.5350	-	-	12.974	23.60	16	10.5	5.5	16
RW-20	1992	4	707808.7446	1160399.7480	-	-	12.803	23.70	16	10.5	5.5	16
RW-21	1992	4	707825.3615	1160333.9070	-	-	13.352	23.86	16	10.5	5.5	16
RW-22	1992	4	707862.2571	1160317.7960	-	-	12.716	24.46	16	10.5	5.5	16
RW-24	1992	4	707935.2942	1160286.3500	-	-	13.628	24.78	16	10.5	5.5	16
RW-25	1992	4	707971.6823	1160270.6640	-	-	13.068	24.35	16	10.5	5.5	16
RW-26	2003	6	707556.1064	1160638.2880	-	-	11.928	22.63	19	10	8	18
RW-27	2003	6	707588.4576	1160710.8760	-	-	13.319	U	20.5	10	10	20
RW-28	2003	6	707613.8285	1160631.9970	-	-	14.617	24.77	20.5	10	10	20
RW-29	2003	6	707670.9354	1160606.4410	-	-	13.825	24.42	20.5	10	10	20
T-2	1988*	2	707200.6898	1160539.7340	^	-	11.623	22.01	U	U	U	U
T-3	1988*	2	707295.5700	1160548.1120	^	-	13.031	23.42	U	U	U	U
Surface Water Wells												
RR-1	1992	4	707219.5778	1160516.0670	14.79	-	-	24.29	15	10	5	15
RR-2	1992	4	707501.4417	1160395.6432	15.71	-	-	24.36	15	10	5	15
RR-3	1992	4	707587.8392	1160352.3496	15.78	-	-	25.27	15	10	5	15
RR-4	2011	4	707271.2875	1160493.9721	-	13.19	-	-	15	10	5	15
RR-5	2011	4	707425.7109	1160450.1130	-	^	16.525	-	18	10	8	18
RR-6	2011	4	707116.5791	1160562.9660	-	^	11.312	-	15	10	5	15

Table 6
Well Inventory and Construction Detail
D Street Petroleum Site

Well ID	Year Installed	Well Diameter (inches)	Coordinates (a)		TOC Elev.(b) (feet)	TOC Elev.(c) (feet)	TOC Elev.(d) (feet)	TOC Elev.(e) (feet)	Well Depth on log (feet)	Screen Length	Screened Interval	
			Northing (Y)	Easting (X)							Lower Depth (feet)	Upper Depth (feet)
FW-15	1990	4	NA	NA	-	-	NA	24.16	15	10	4.8	14.8
Lower Sand Unit Wells												
DMW-1	2001	2	707595.7179	1160368.5230	-	-	13.716	24.18	21	5	16	21
DMW-2	2001	2	707804.8172	1160272.6240	-	-	12.971	23.71	21	5	16	21
DMW-3	2001	2	707540.3268	1160598.8800	-	-	12.833	23.71	23.5	5	18	23
DMW-4	2001	2	707224.0726	1160548.5430	-	-	11.722	22.08	17	5	12	17
FW-1	1989	2	707062.1505	1160730.9240	-	-	13.634	24.67	20.5	3.5	17	20.5
FW-2	1989	2	707514.1212	1160859.1110	-	-	14.321	25.40	20.5	4	16.5	20.5
FW-13	1989	2	708048.7709	1160428.7930	-	-	13.127	23.86	22.5	5	17.5	22.5
Surface Water Gauging Point												
WW-MP-1		-	707958.2537	1160154.9203	^	-	15.116	-	-	-	-	-

NOTES:

Information for well inventory and estimates provided by Landau Associates (2009), with revisions.

Revised and new well coordinates and elevations measured by Otak, March 2011, and WH Pacific, October 2011 and October 2013.

* = assumed or estimated date, based on available information

^ = Data point removed due to data redundancy

NA = not available

U = unknown value

(a) Coordinates are based on NAD 83, Washington State Coordinate System, South Zone (U.S. feet)

(b) Top of casing elevation, March 2011, based on NAVD 88

(c) Top of casing elevation, October 2011, based on NAVD 88

(d) Top of casing elevation, October 2013, based on NAVD 88

(e) Top of casing elevation (feet above mean sea level). No survey benchmark for this data. With local definition for AMSL, data is arbitrary.

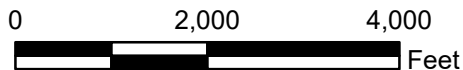
(f) Installation date is unknown, but estimated to be prior to 1988

(g) Installation date is not known, but estimated to be during the mid-1990s

Figures



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

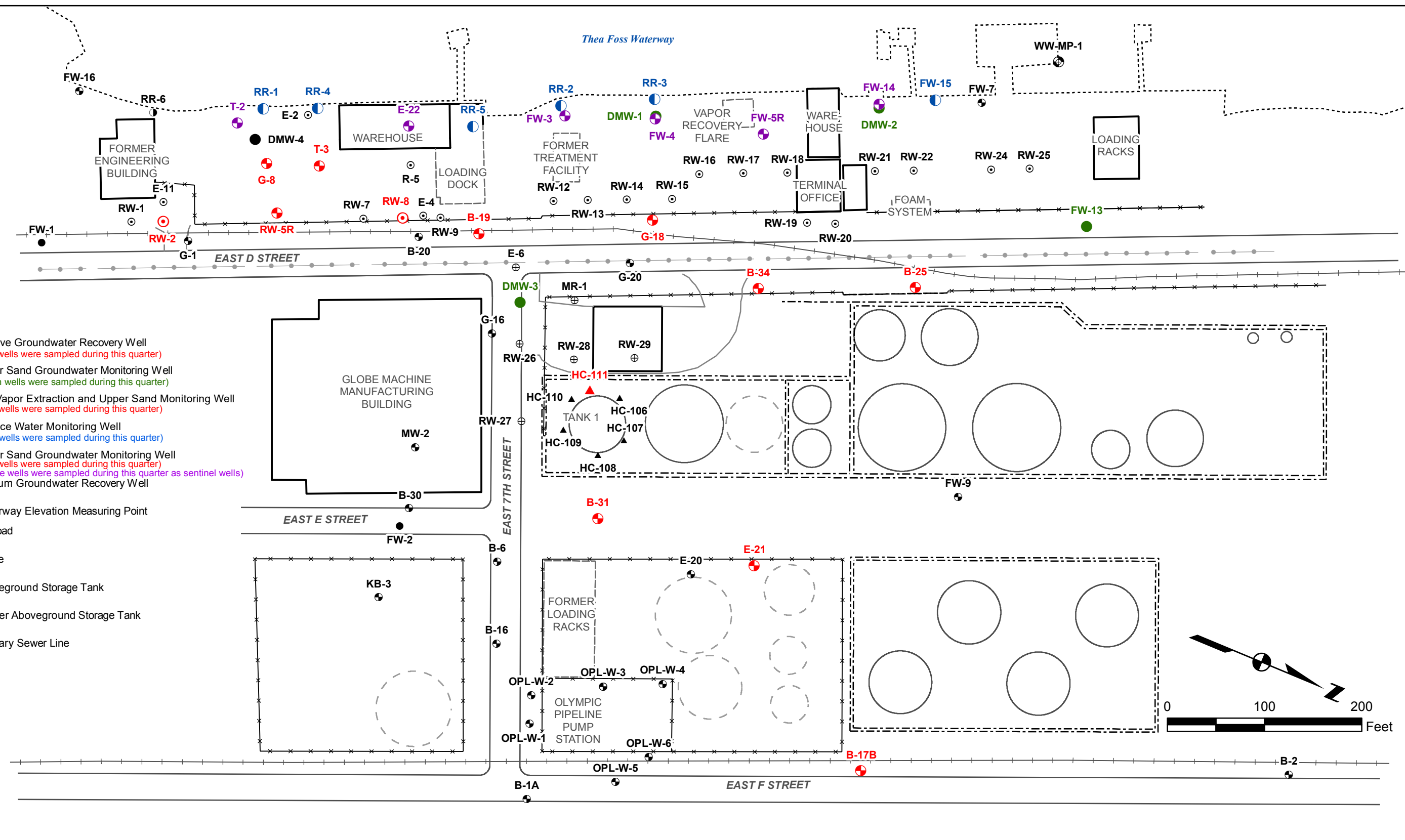


AECOM

VICINITY MAP

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 1



Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.
URS, 2014.



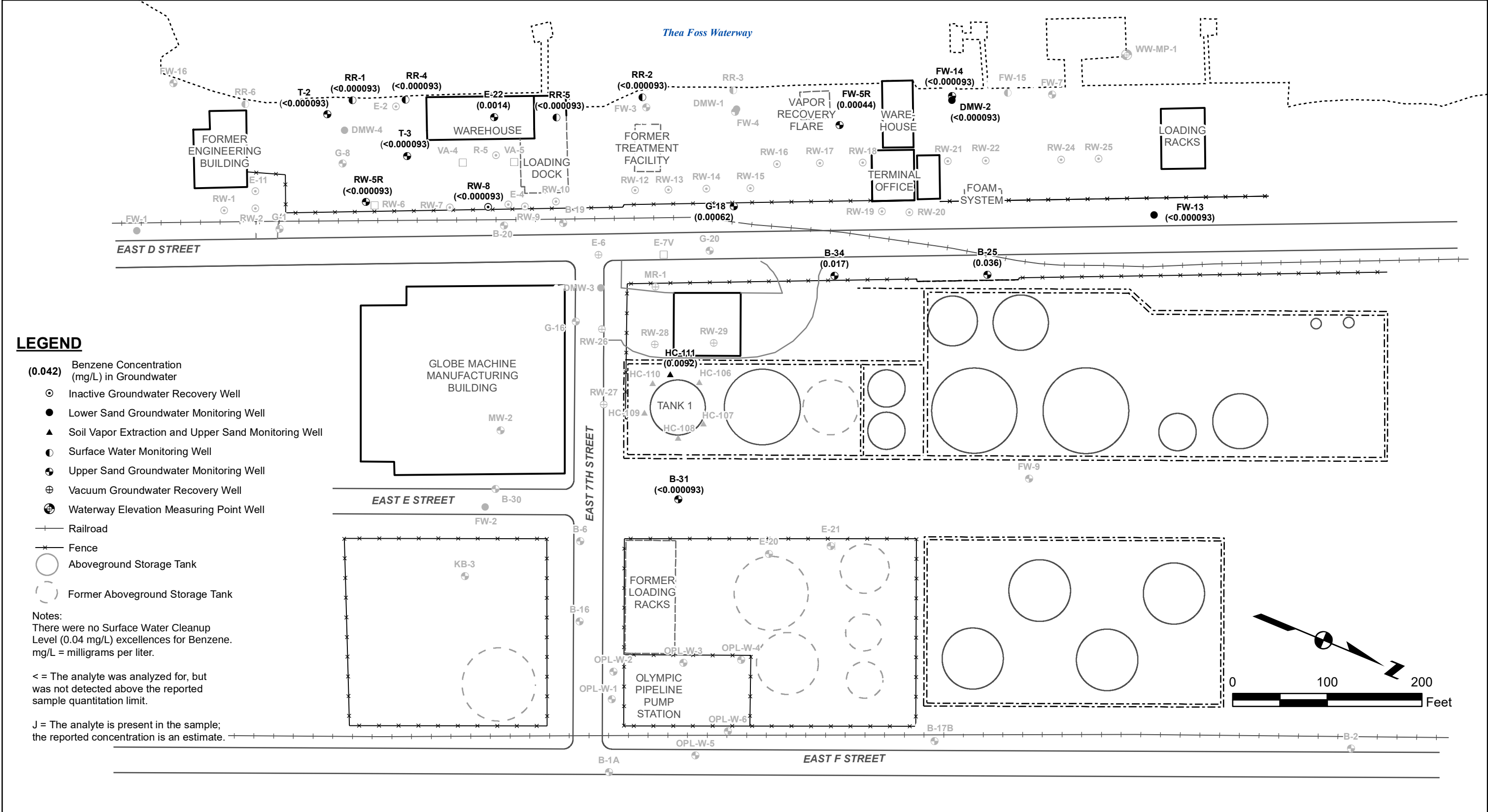
SITE MAP

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 2

K:\25211158_Shell_46194223_Tacoma_Terminal\MXD\2018_Annual_Progress_Report\Fig2.mxd

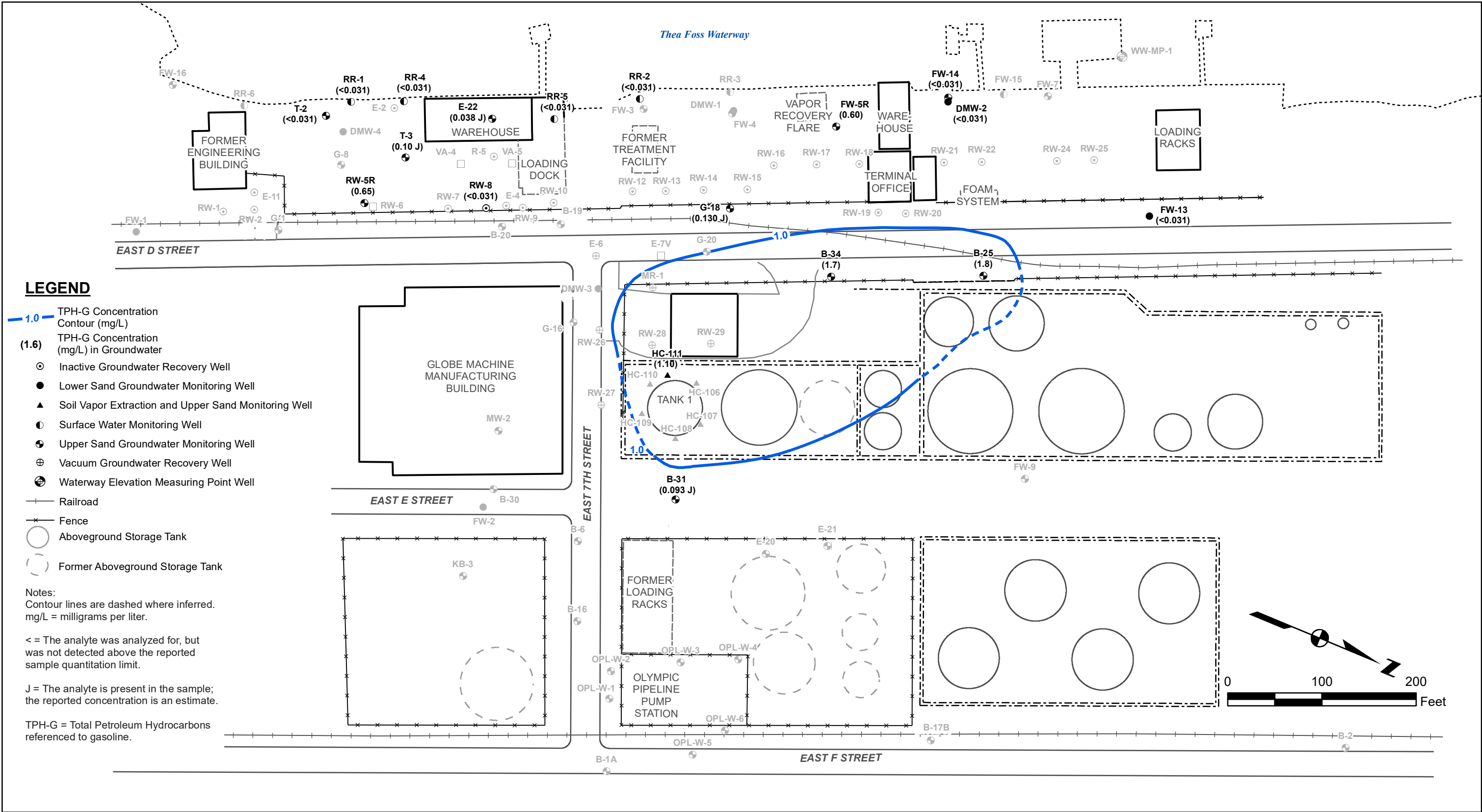
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Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

BENZENE CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), APRIL 2023

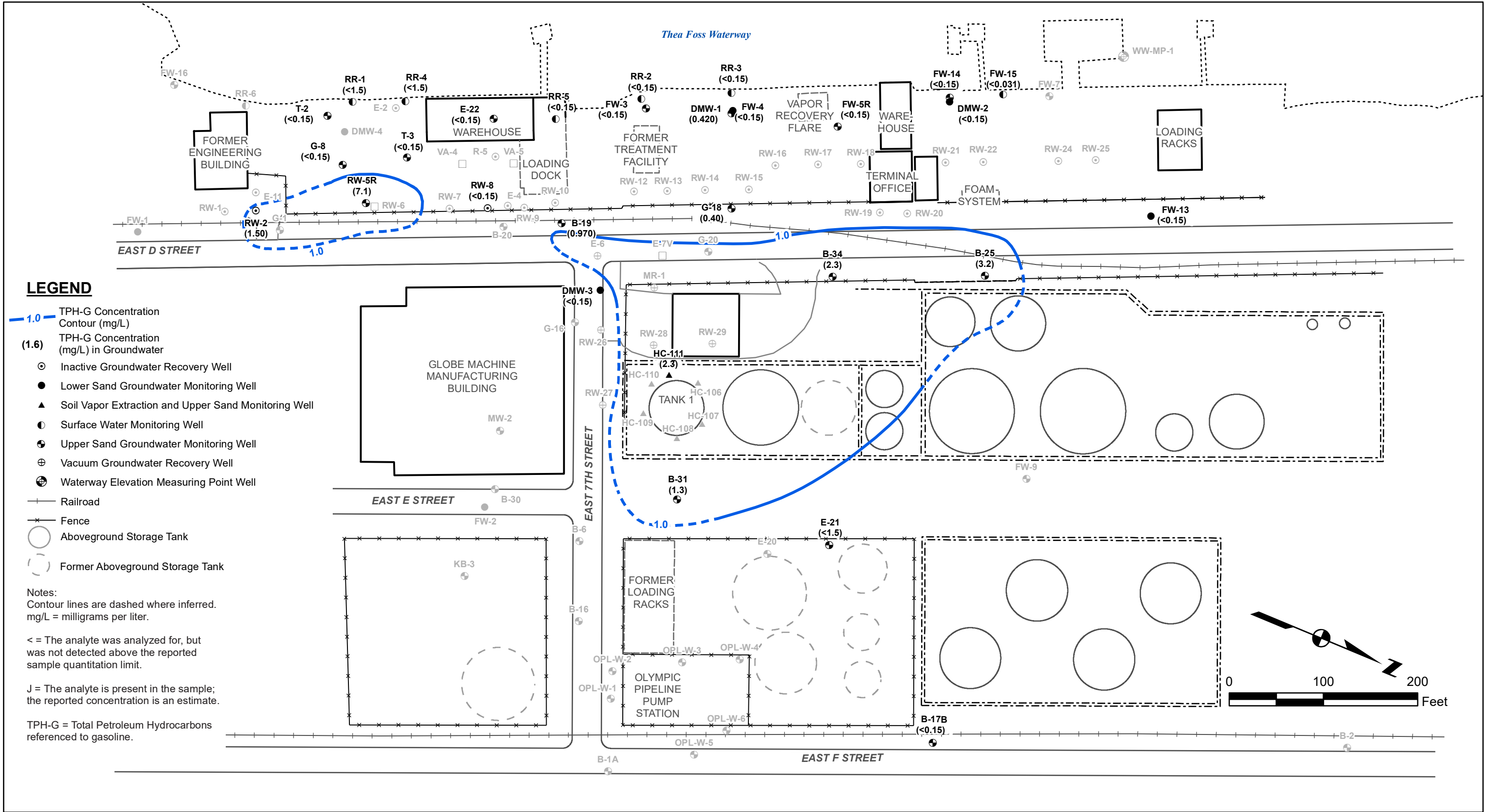
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Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

TPH-G CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), APRIL 2023

C:\Users\Railteam\PAE\COM\GDS GIS Services - GIS CAD PROJECTS\DOS AMERICAS\REM\WEST\F81541\Tacoma D St\Work\20221010\GIS\Fig10_3022_G_ver1.mxd



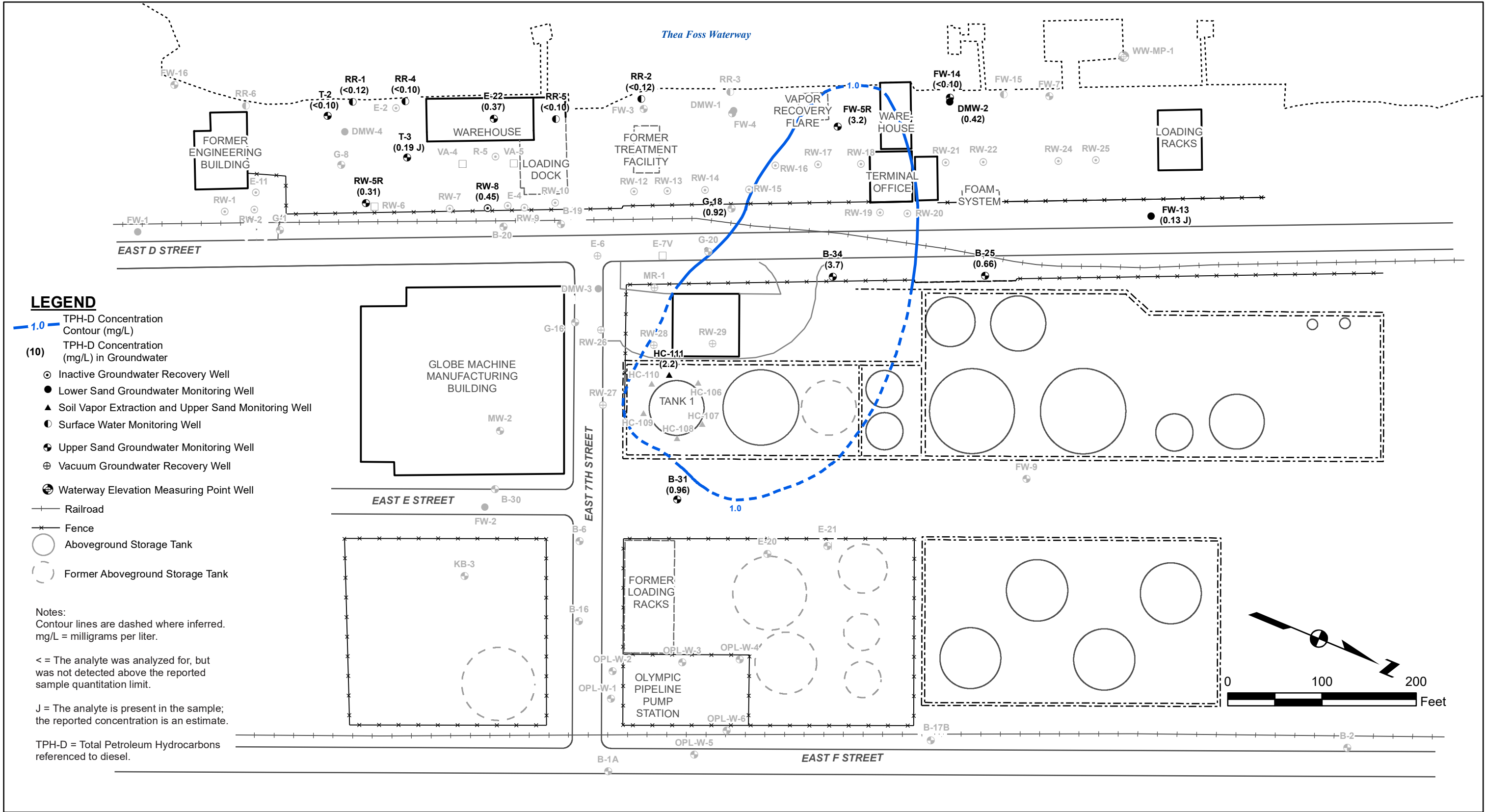
Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

AECOM

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 6

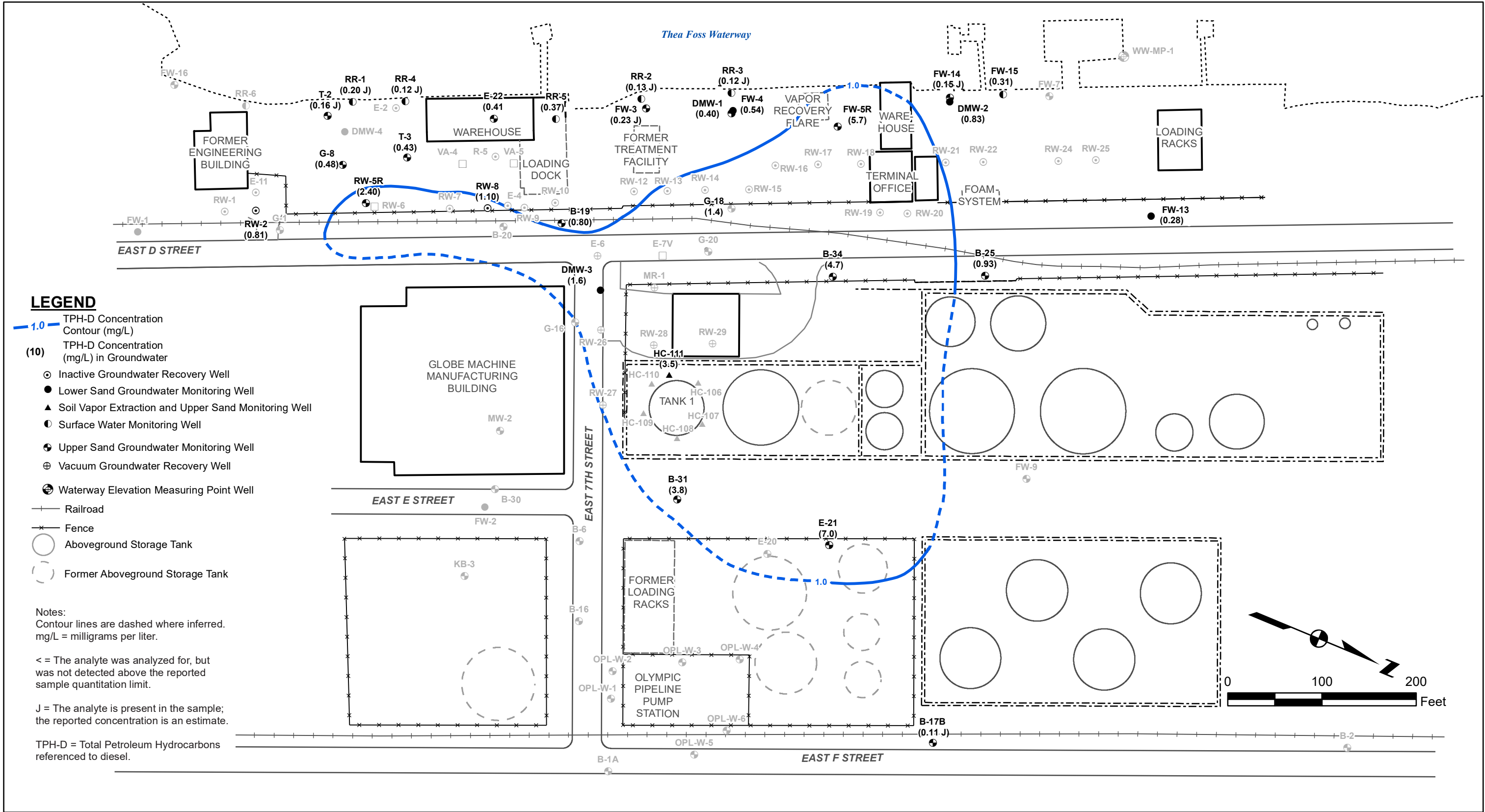
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Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

TPH-D CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), APRIL 2023

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Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

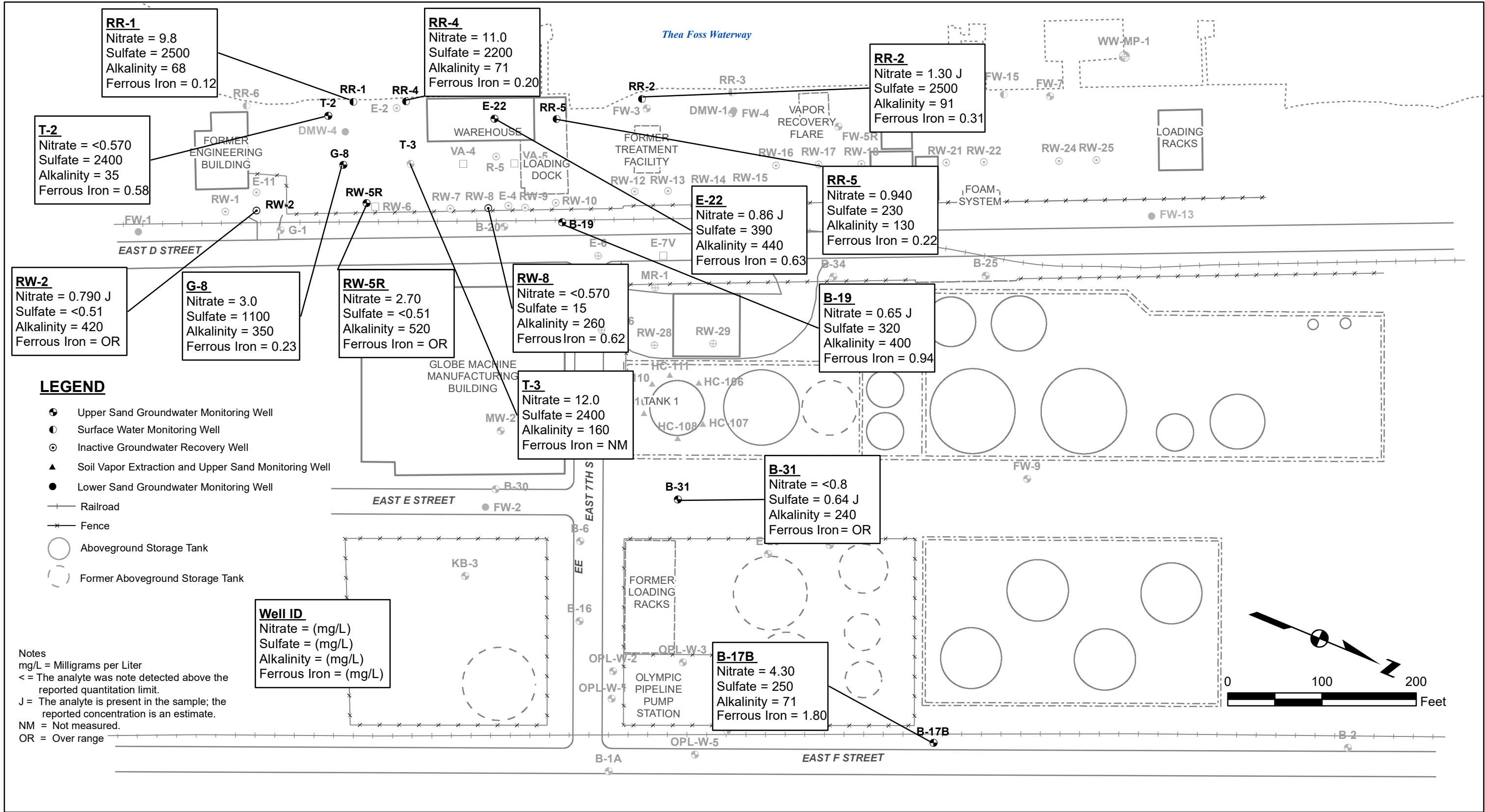
TPH-D CONCENTRATIONS IN GROUNDWATER
(UPPER SAND UNIT), OCTOBER 2023

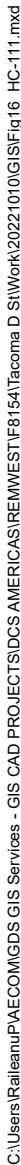
D STREET PETROLEUM SITE
TACOMA, WASHINGTON



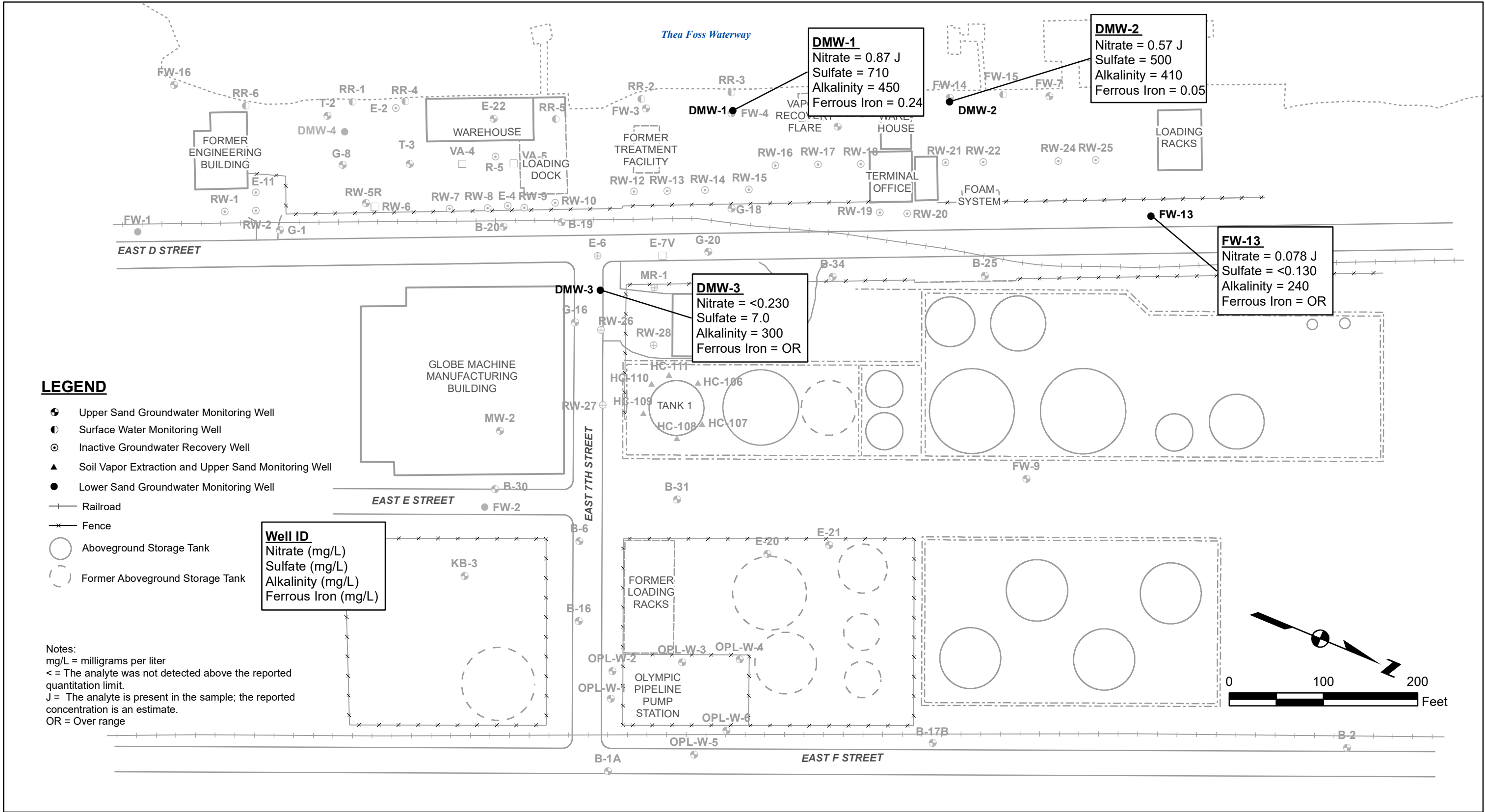
FIGURE 8

C:\Users\Railteam\PAE\COM\GDS GIS Services - GIS CAD PROJECTS\DCS AMERICAS\REM\WEST\F81541\Tacoma D St\Work\20221010\GIS\Fig15_RW-5R Plume.mxd





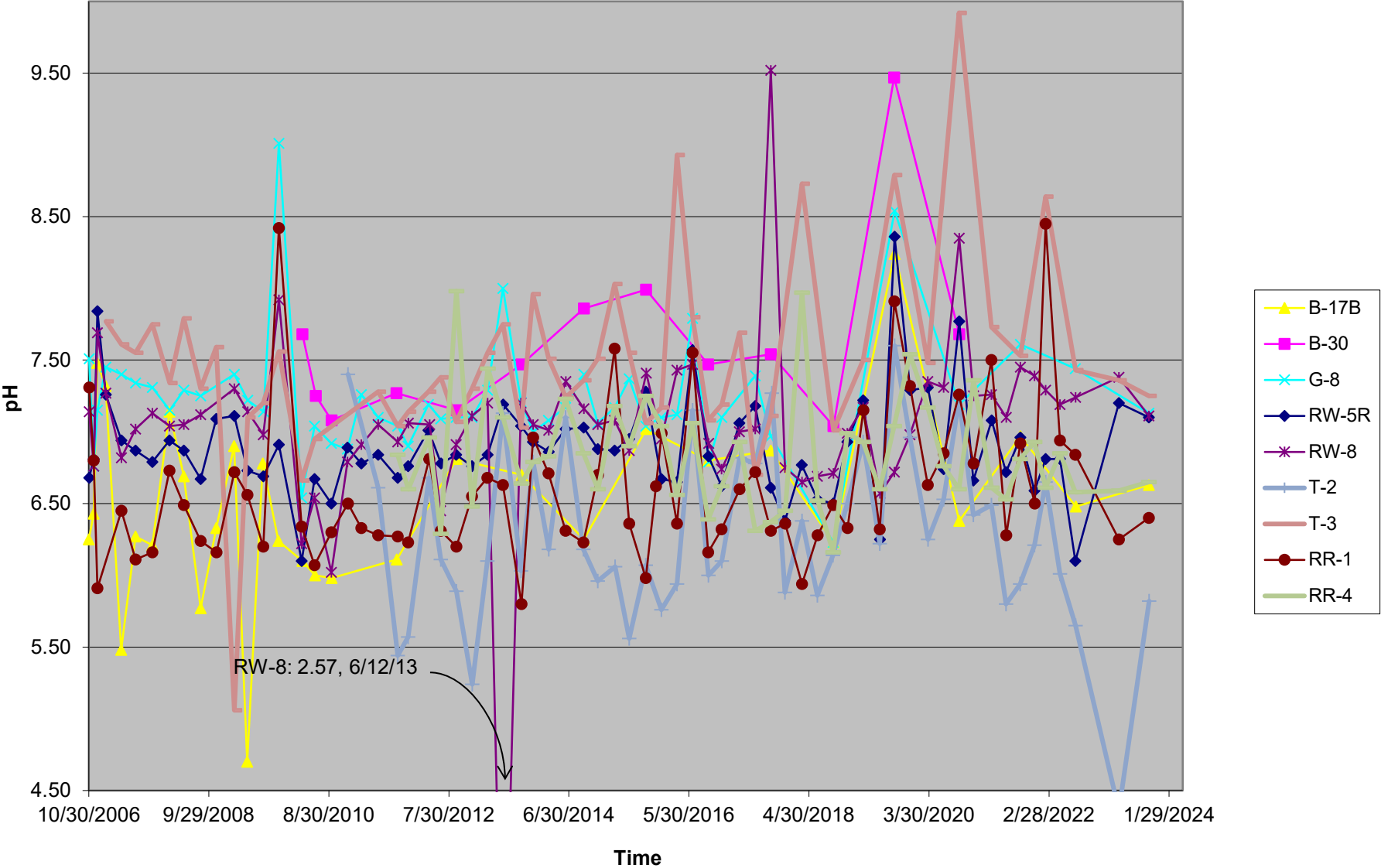
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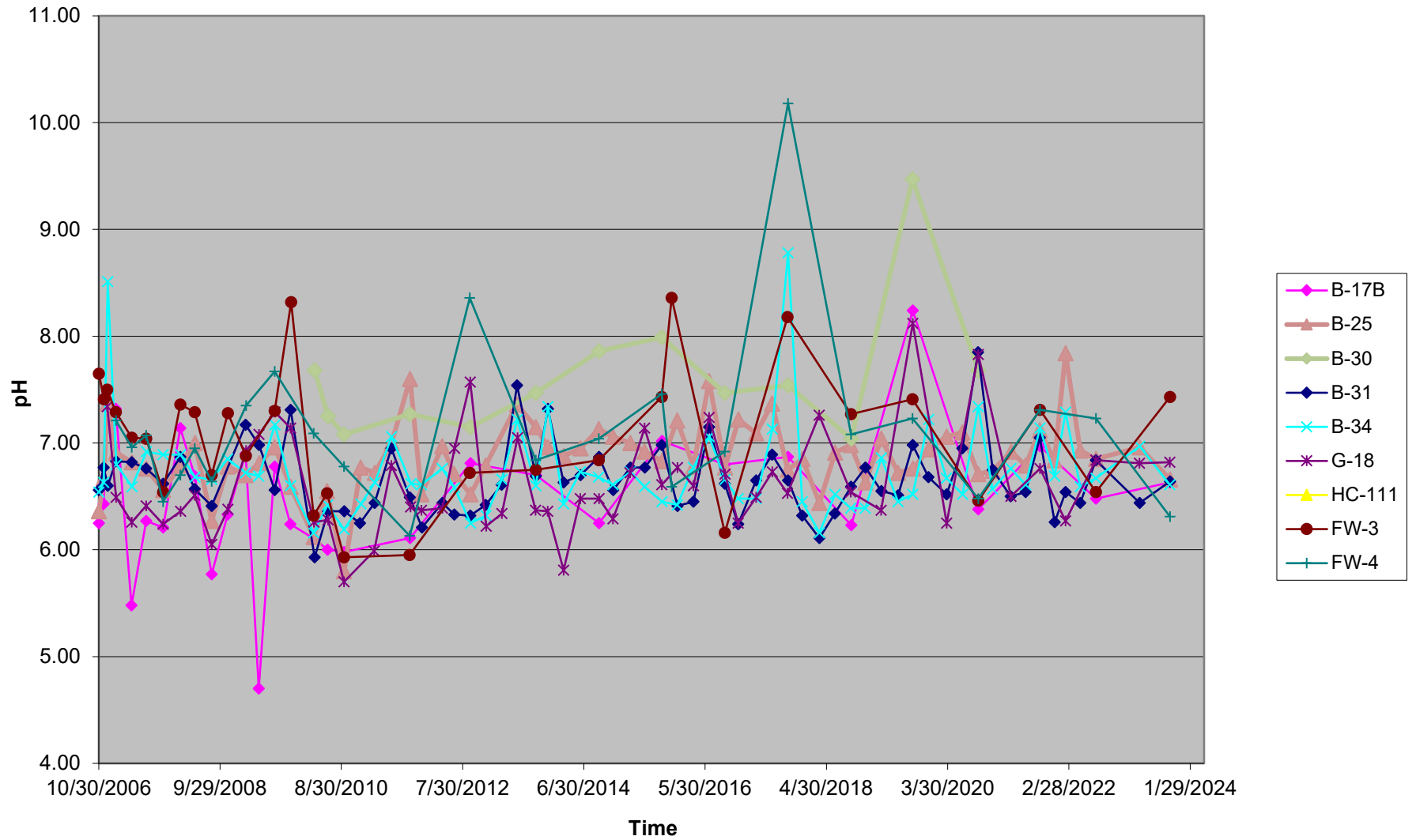
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Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

Graphs

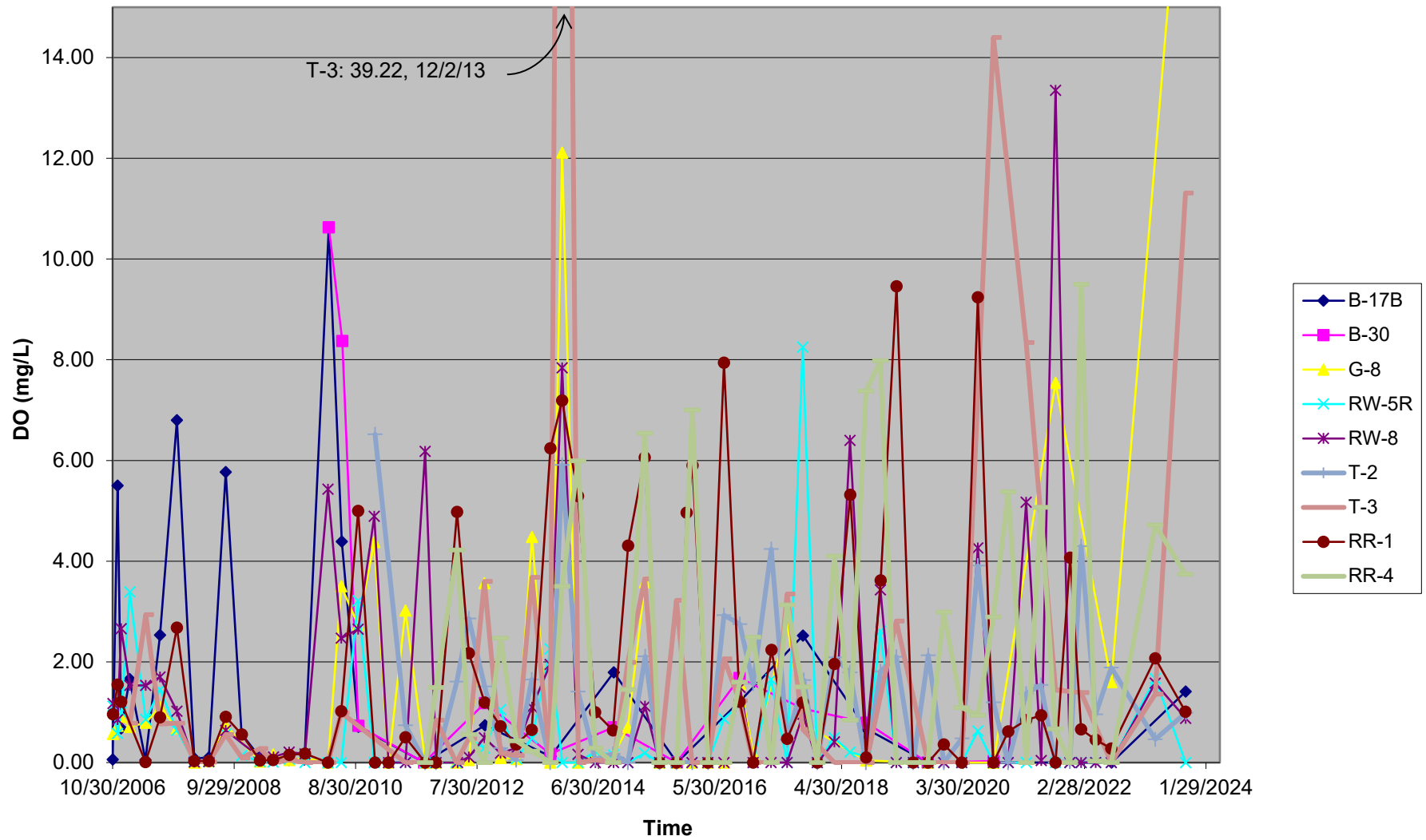
Graph 1 pH Time Series - RW-5R Plume



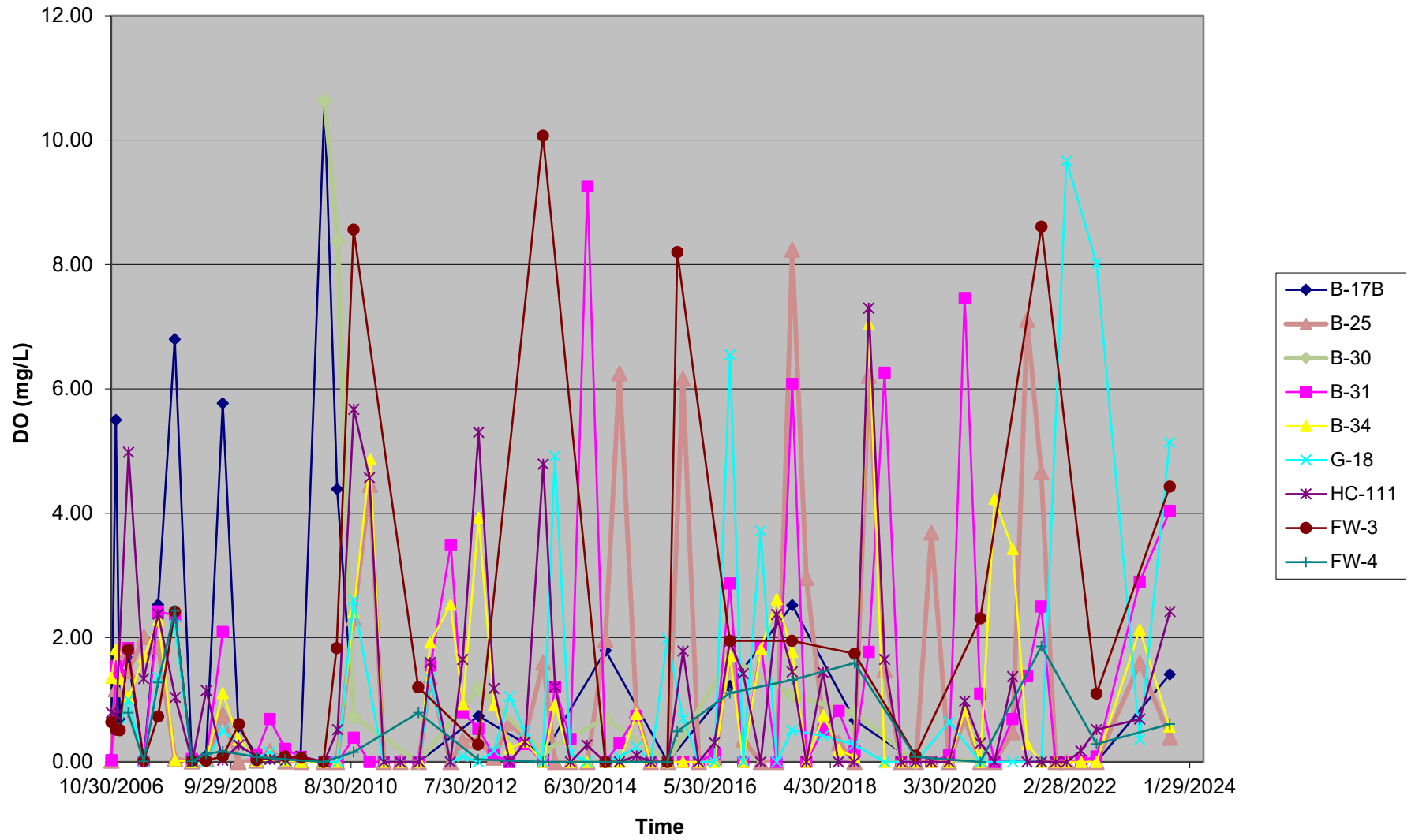
Graph 2 pH Time Series - HC-111 Plume



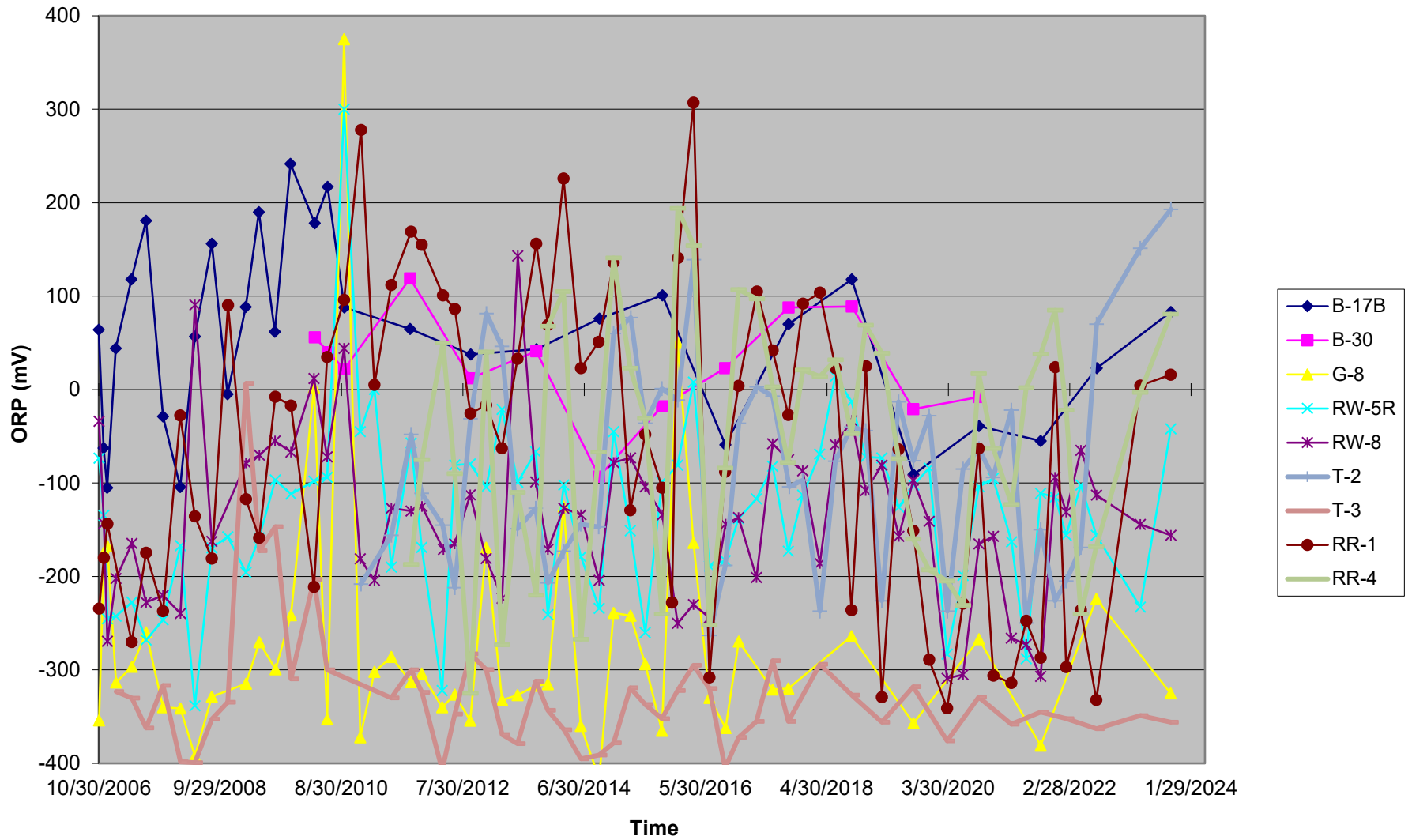
Graph 3 Dissolved Oxygen Time Series - RW-5R Plume



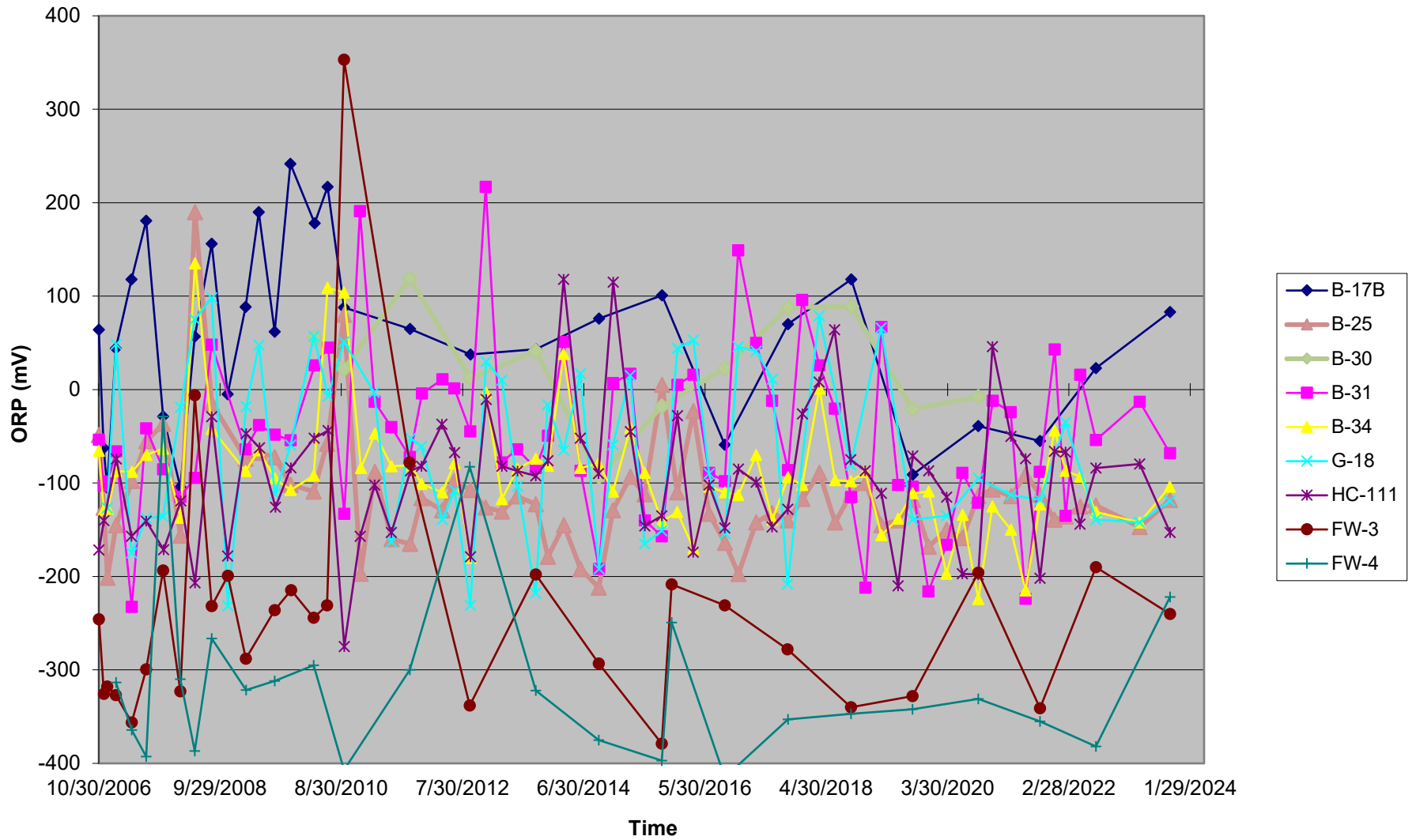
Graph 4 Dissolved Oxygen Time Series - HC-111 Plume



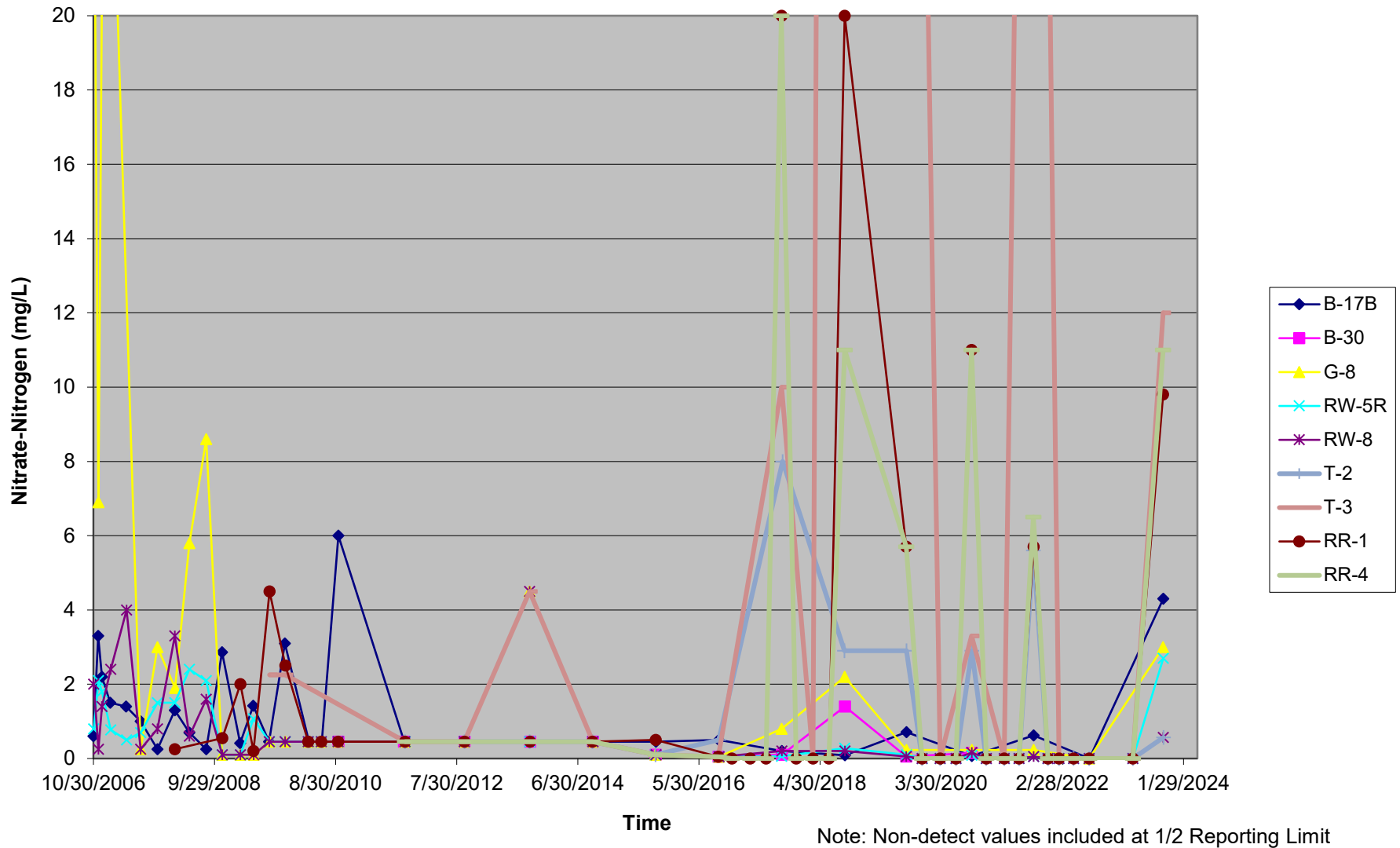
Graph 5 ORP Time Series - RW-5R Plume



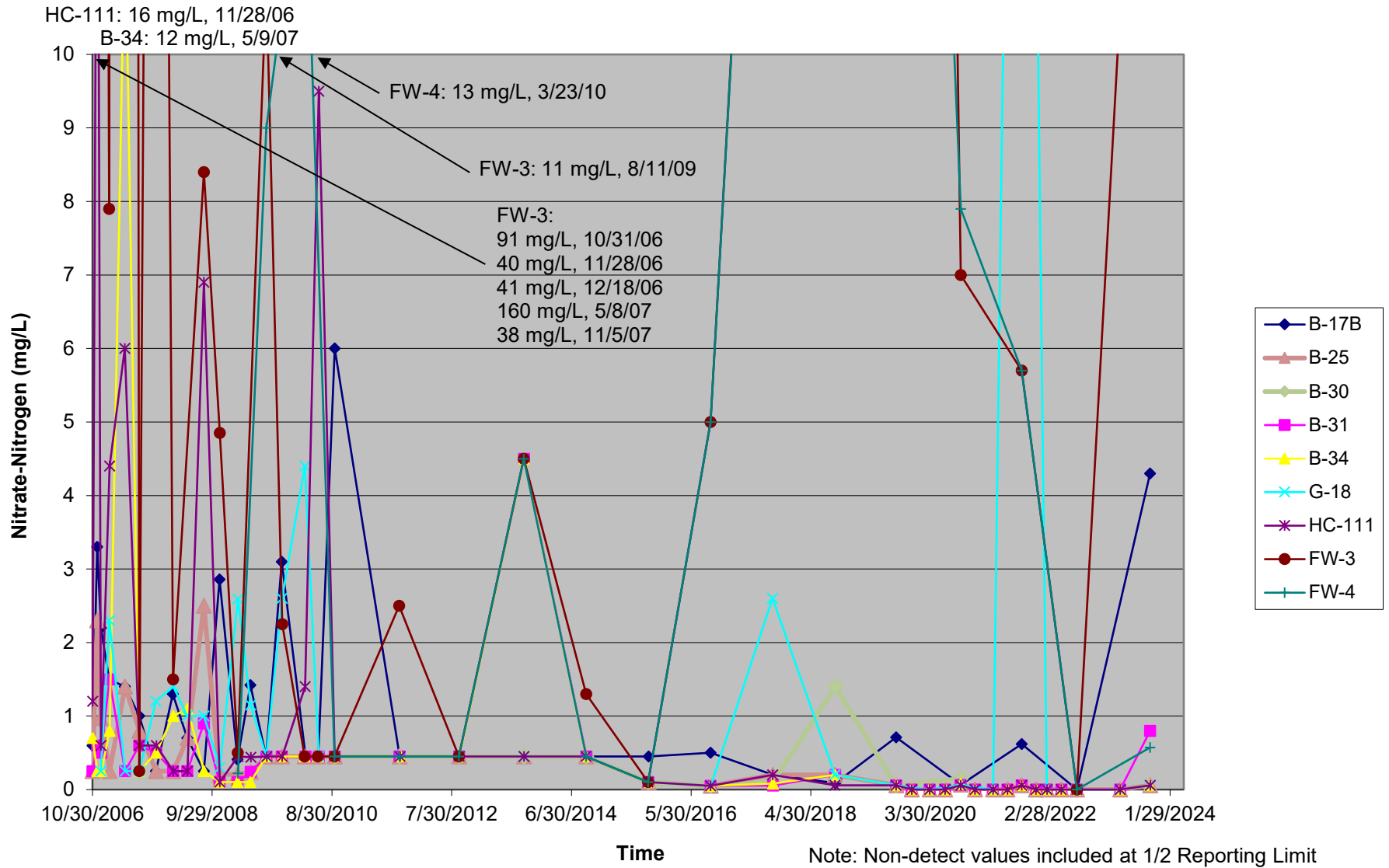
Graph 6 ORP Time Series - HC-111 Plume



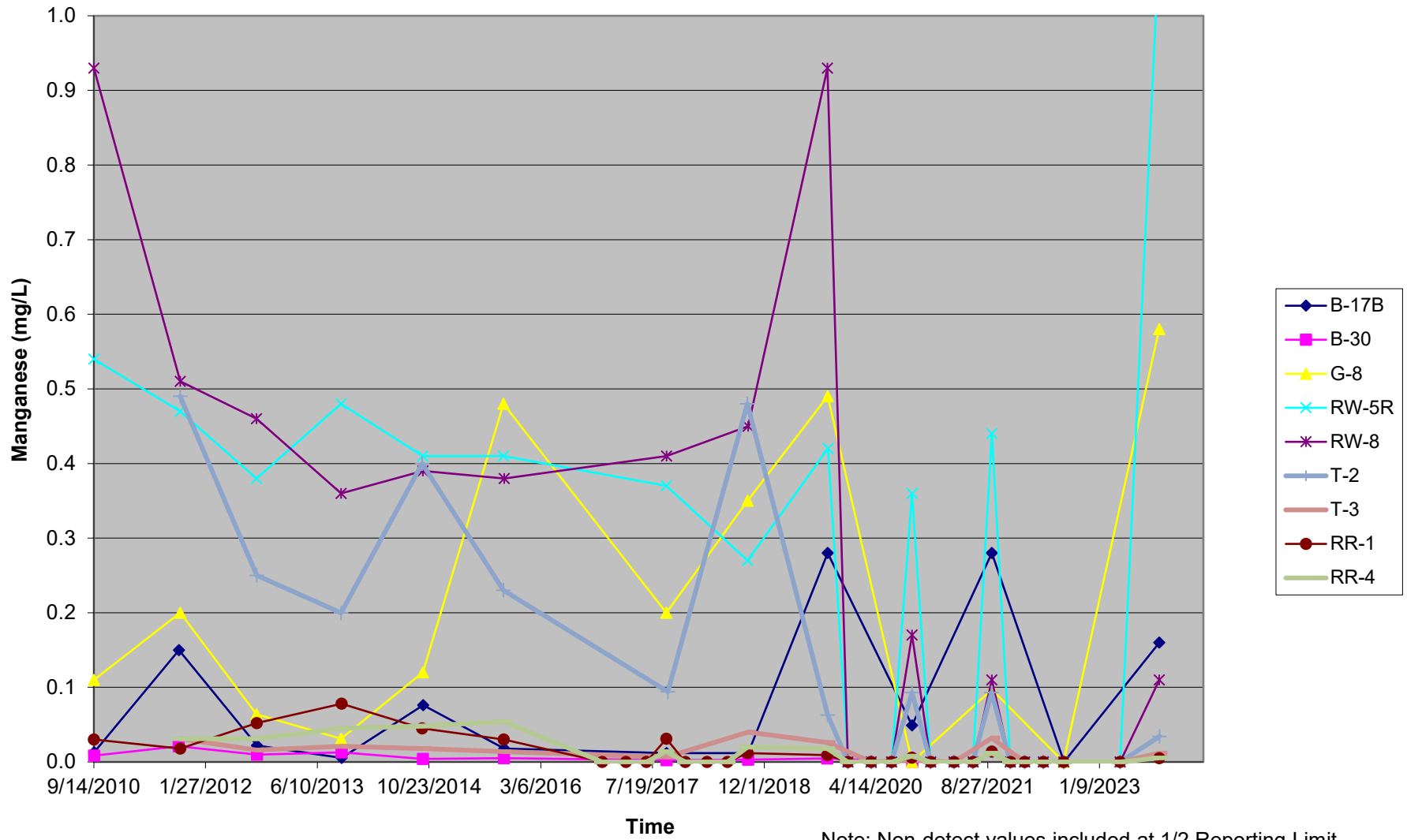
Graph 7 Nitrate-Nitrogen Time Series - RW-5R Plume



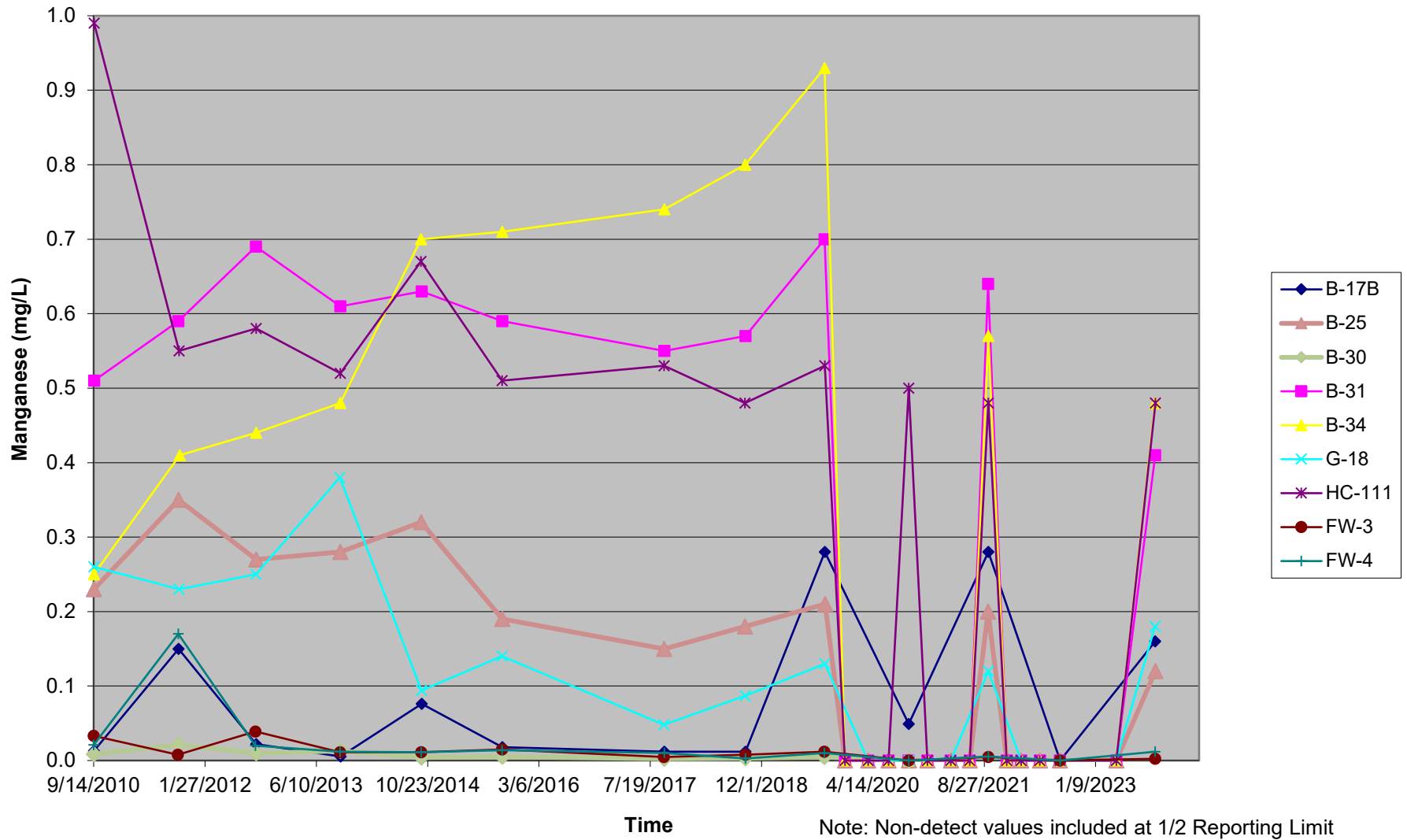
Graph 8 Nitrate-Nitrogen Time Series - HC-111 Plume



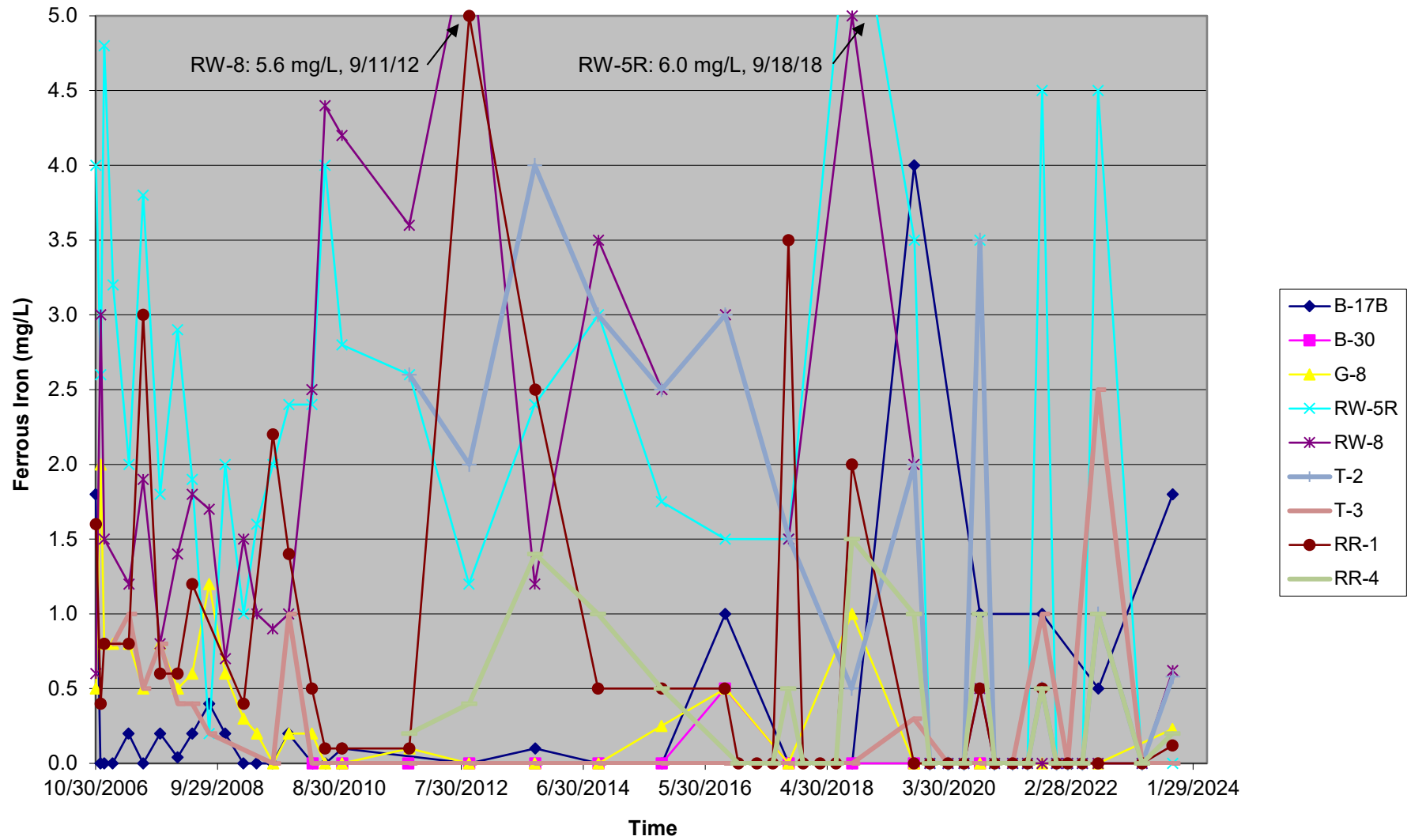
Graph 9 Manganese Time Series - RW-5R Plume



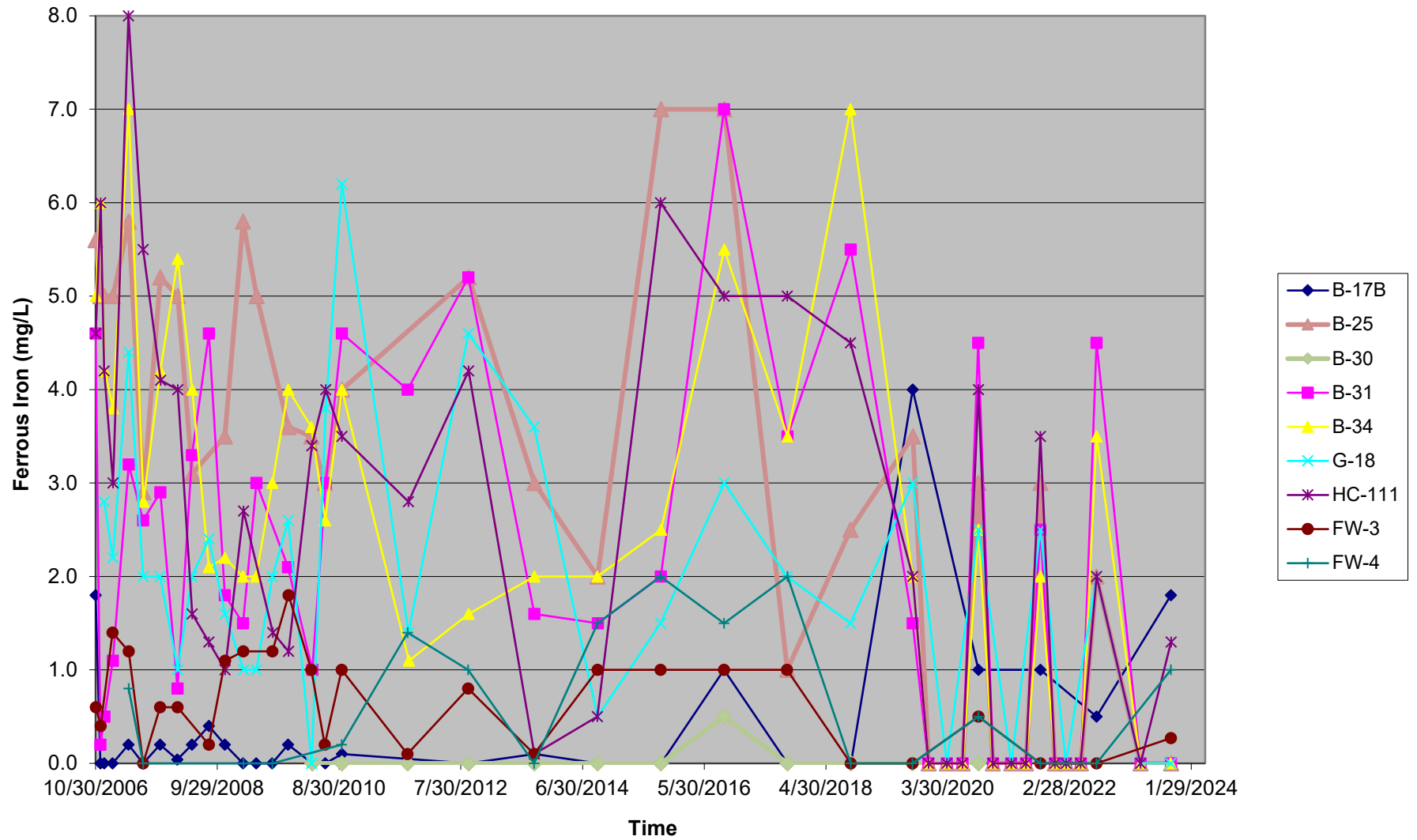
Graph 10 Manganese Time Series - HC-111 Plume



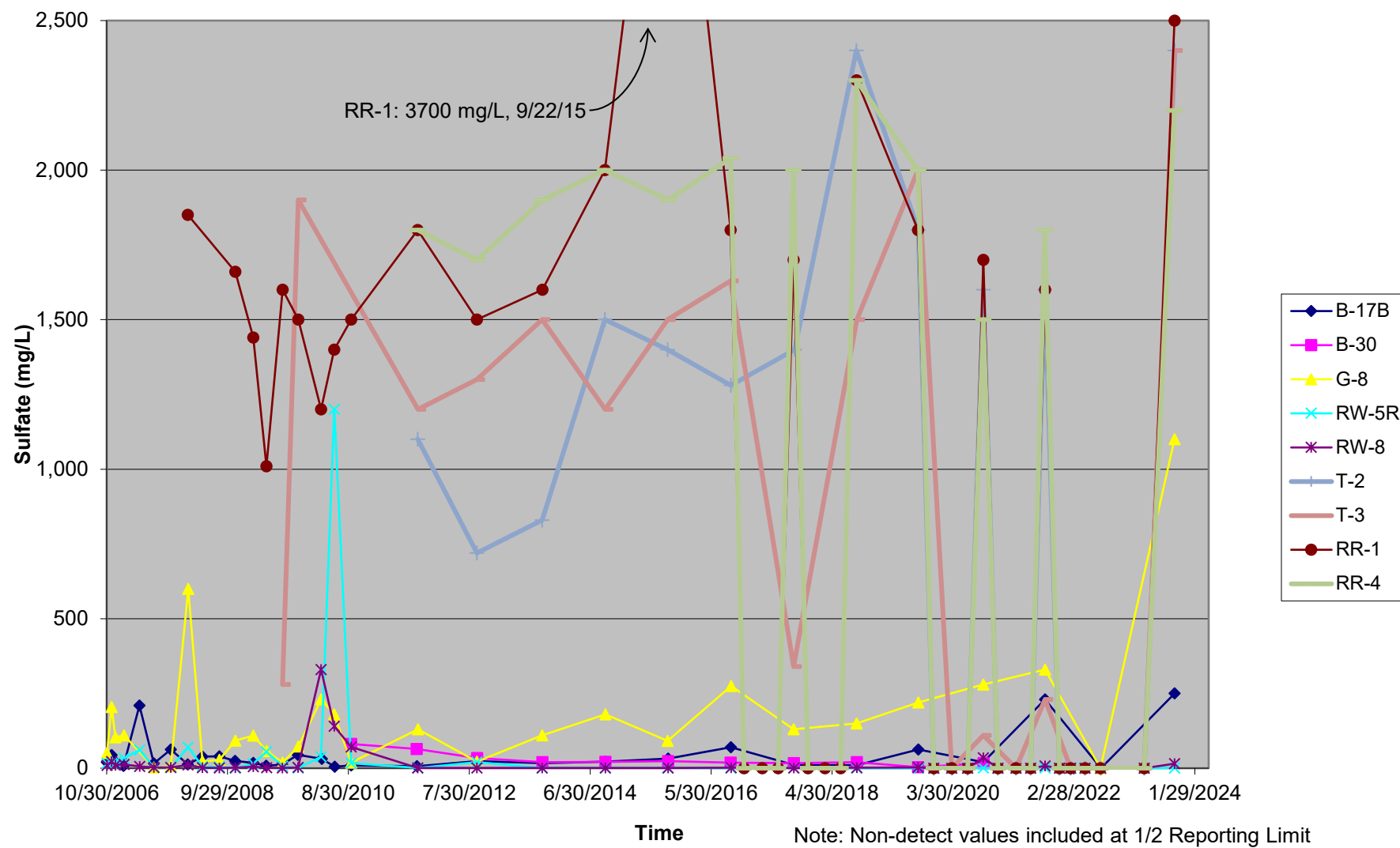
Graph 11 Ferrous Iron Time Series - RW-5R Plume



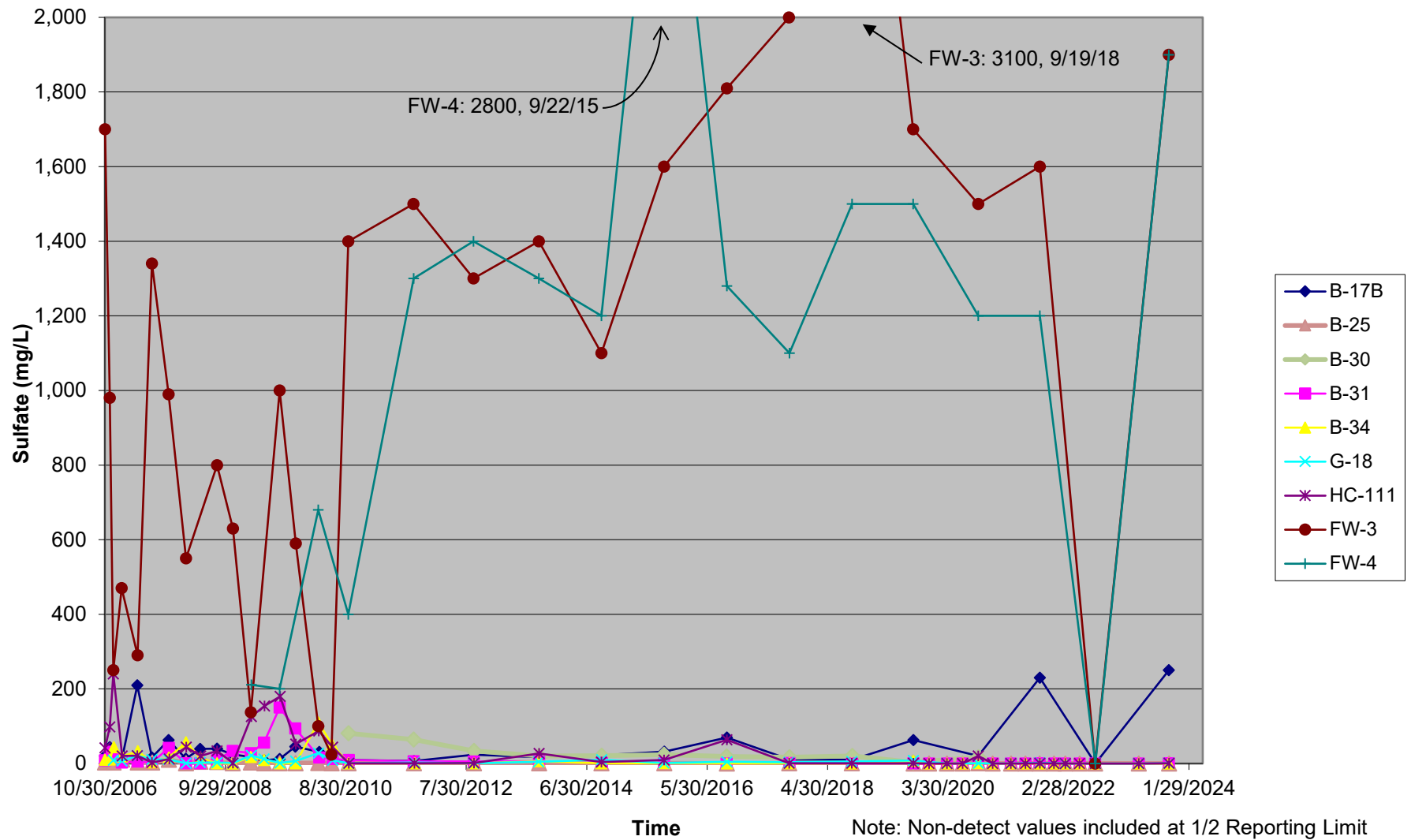
Graph 12 Ferrous Iron Time Series - HC-111 Plume



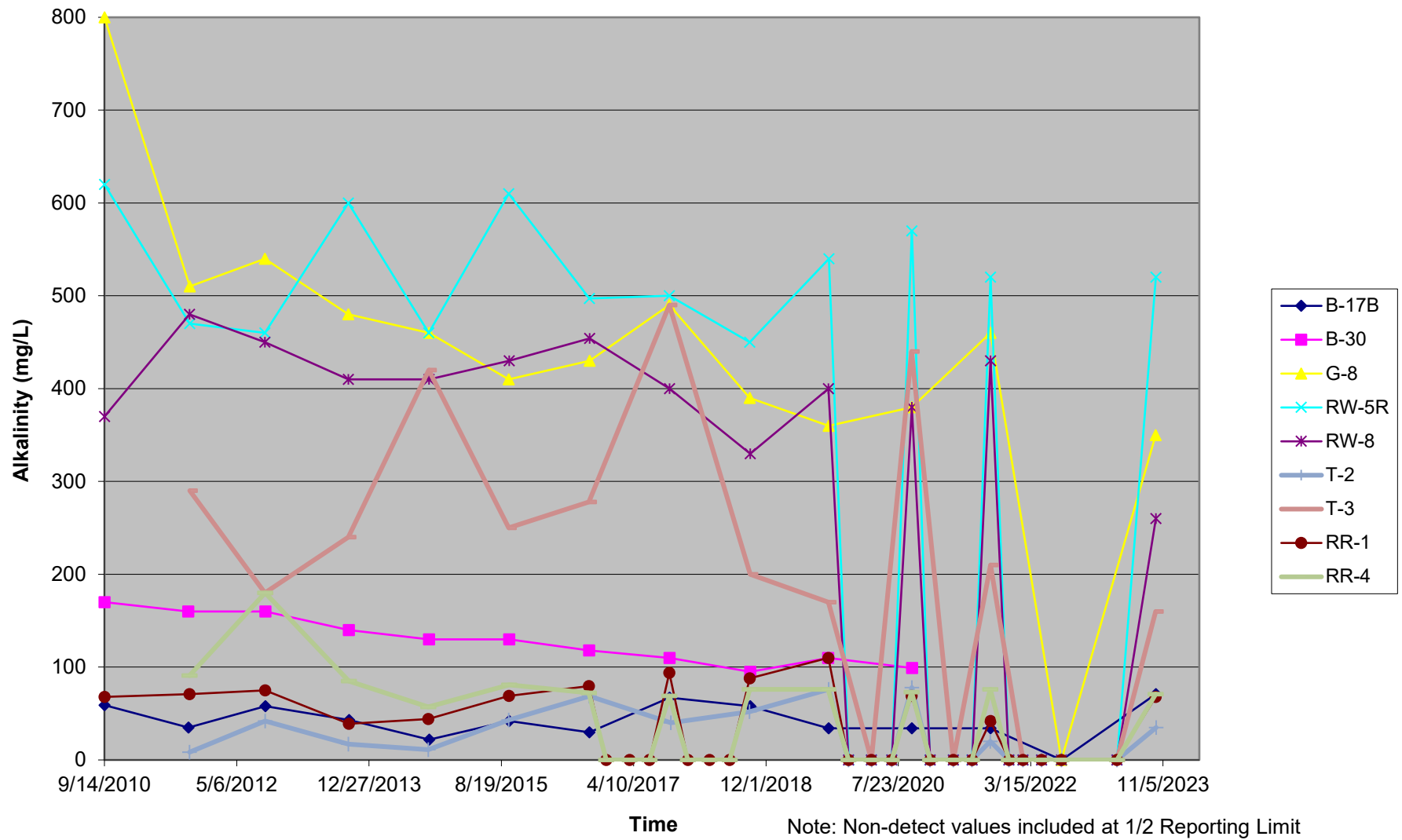
Graph 13 Sulfate Time Series - RW-5R Plume



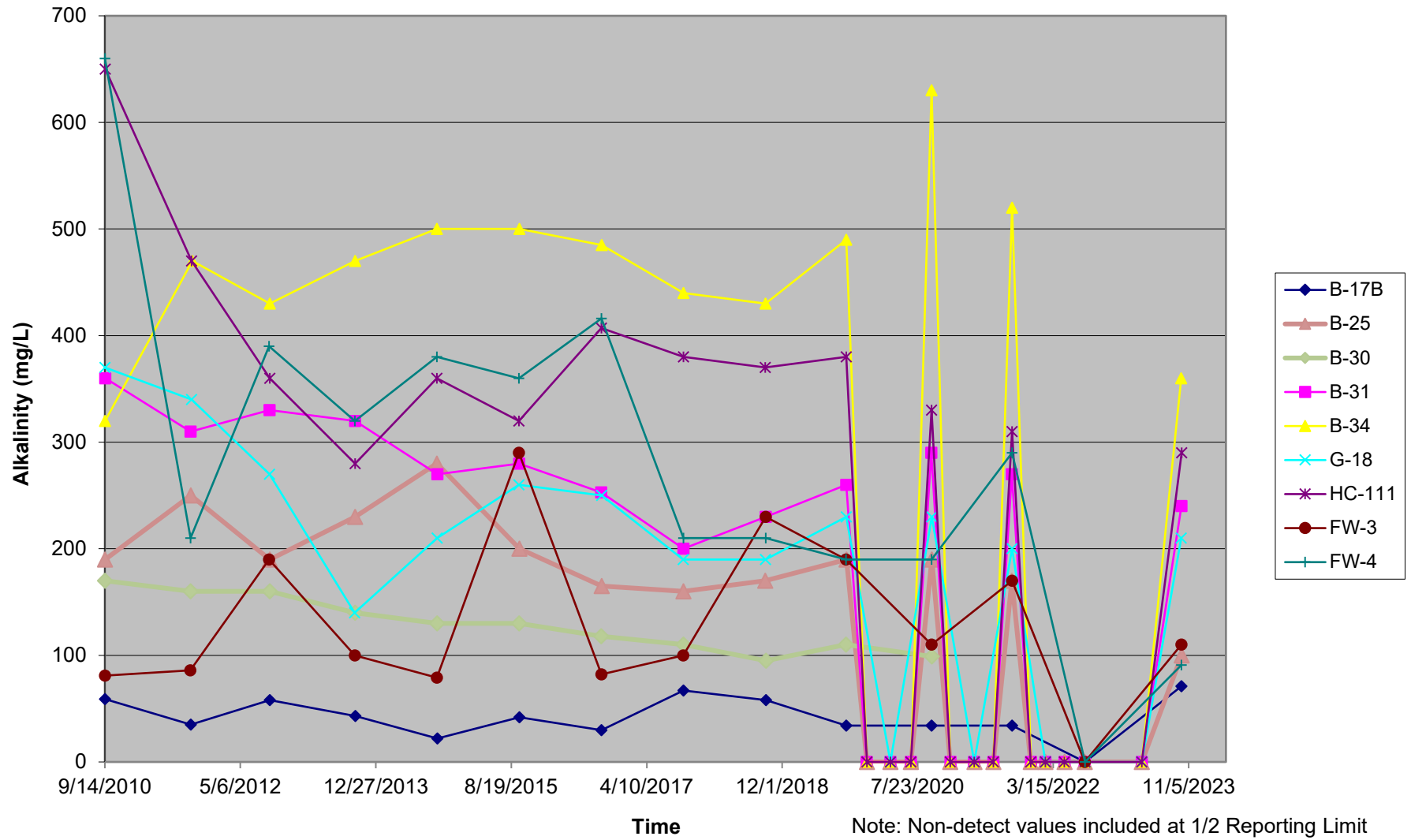
Graph 14 Sulfate Time Series - HC-111 Plume



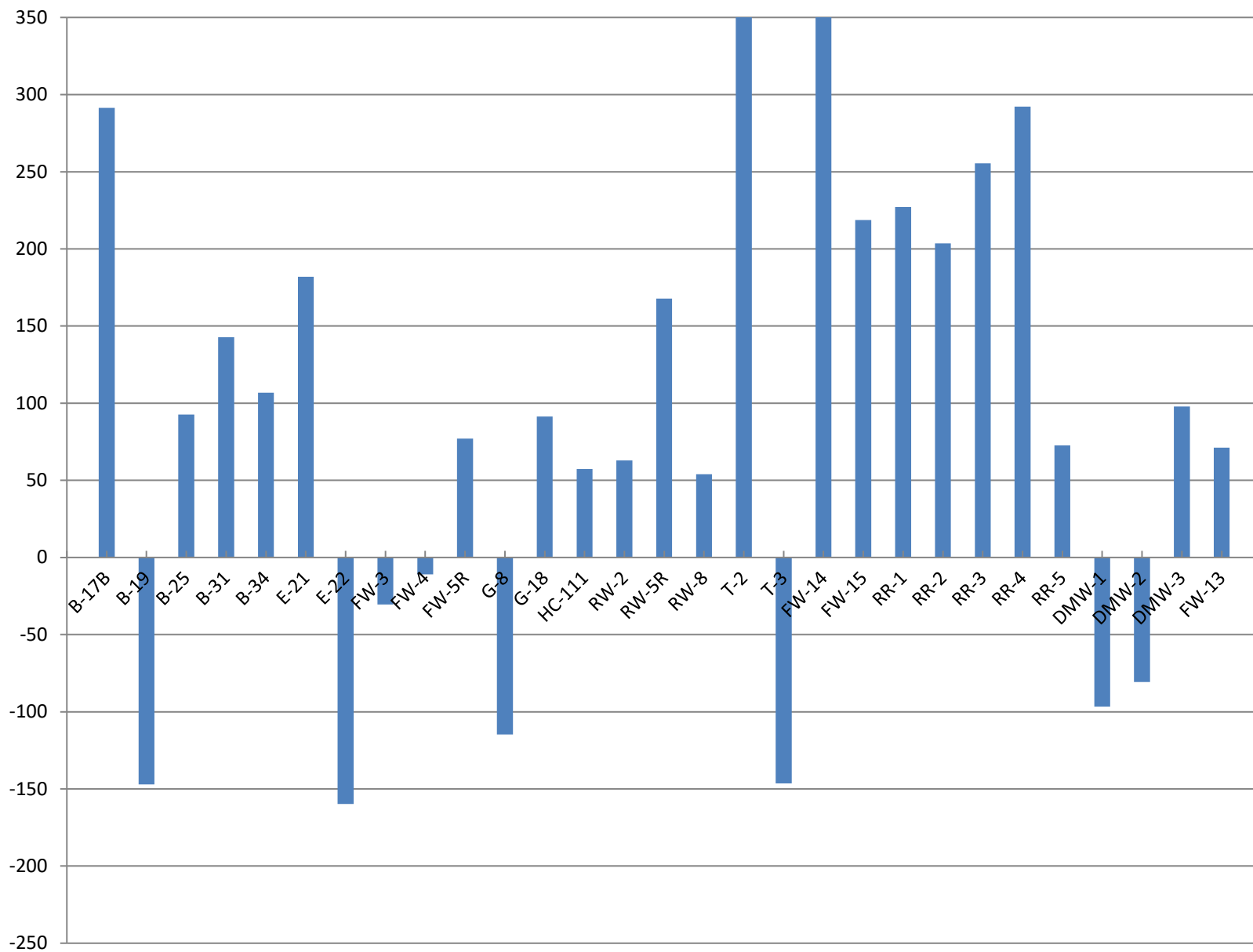
Graph 15 Alkalinity Time Series - RW-5R Plume



Graph 16 Alkalinity Time Series - HC-111 Plume



Graph 17 Summary of Redox Values (E_H , in mV), October 2023



Appendix A
Summary of Historical Groundwater Analytical Results

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
Upper Sand Unit										
B-1A	1/29/2003	NS	5.10 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	4/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	8/25/2003	0.100 U	5.62 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
B-1A	10/30/2003	0.0800 U	5.00 U	NA	-	0.000892	0.000500 U	0.000500 U	0.00150 U	-
B-1A	1/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	5/5/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	8/10/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	10/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	2/8/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	5/18/2005	NS	NS	NS	-	NS	NS	NS	NS	-
B-1A	8/2/2005	0.0500 U	5.00 U	0.271	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
B-1A	11/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
B-1A	2/7/2006	0.0500 U	4.72 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
B-1A	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
B-1A	8/2/2006	0.100 U	5.00 U	0.250 U	-	0.000500 U	0.00200 U	0.00100 U	-0.99850 U	-
B-1A	12/19/2006	NS	NS	NS	-	NS	NS	NS	NS	-
B-1A	2/6/2007	0.0500 U	4.72 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
B-1A	5/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
B-1A	7/31/2007	0.0500 U	4.72 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
B-1A	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
B-1A	2/12/2008	0.0500 U	0.472 U	0.236	0.472 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
B-1A	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
B-1A	8/12/2008	0.0500 U	5.21 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
B-1A	11/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
B-1A	2/24/2009	0.0500 U	NS	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-1A	8/10/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-1A	03/30/2010	0.0500 U	5.00 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-2	3/21/2005	0.0500 U	NA	0.275	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	5/10/2005	0.0500 U	NA	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	8/2/2005	0.0500 U	NA	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	11/8/2005	0.0500 U	NA	0.245 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	2/7/2006	0.0500 U	NA	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	5/2/2006	0.0500 U	NA	0.243 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	8/2/2006	0.100 U	NA	0.250 U	-	0.000500 U	0.00200 U	0.00100 U	0.0150 U	-
B-2	12/18/2006	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	2/5/2007	0.0500 U	NA	0.243 U	0.485 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	5/7/2007	0.0500 U	NA	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	7/31/2007	0.0500 U	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	11/5/2007	0.0500 U	NA	0.236 U	0.658 J	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	2/13/2008	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	5/8/2008	0.0500 U	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	8/12/2008	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	11/11/2008	0.0500 U	NA	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	2/24/2009	0.0500 U	NA	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	5/11/2009	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-2	8/10/2009	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-2	11/10/2009	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
B-2	03/29/2010	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-2	06/11/2010	0.0500 U	NA	0.120 U	0.390	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-6	1/29/2003	NS	4.72 U	NA	-	0.115	0.0151	0.410	0.0900 J	-
B-6	4/29/2003	9.00 J	5.00 U	NA	-	0.115 J	0.0248 J	0.649 J	0.0646 J	-
B-6	8/25/2003	5.19	12.6	NA	-	0.142	0.0171	0.320	0.0176	-
B-6	10/30/2003	8.17	10.5	NA	-	0.242	0.0965	0.280	0.154	-
B-6	1/27/2004	10.5	5.00 U	NA	-	0.0554	0.00781	0.309	0.0741	-
B-6	5/5/2004	10.0	5.00 U	NA	-	0.0726	0.0121	0.504	0.179	-
B-6	8/9/2004	9.07 J	5.00 U	NA	-	0.0691 J	0.0101 J	0.435 J	0.0863 J	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-6	10/27/2004	6.77 J	5.00 U	NA	-	0.0697 J	0.00678 J	0.230 J	0.0387 J	-
B-6	2/10/2005	7.95 J	16.1	NA	-	0.0681 J	0.0109 J	0.230 J	0.0464 J	-
B-6	5/10/2005	10.5	6.30	NA	-	0.0714	0.0114	0.234	0.0365	-
B-6	8/4/2005	6.11	5.77	10.3	-	0.0692 J	0.0117 J	0.191 J	0.0230 J	-
B-6	11/8/2005	6.22	4.81 U	10.9	-	0.0620	0.00732	0.0914	0.0192	-
B-6	2/9/2006	8.97	5.71	22.8	-	0.361	0.00584	0.0451	0.0299	-
B-6	5/2/2006	1.34	4.72 U	0.347	-	0.00390	0.000627	0.0185	0.00525	-
B-6	8/2/2006	0.402	5.00 U	0.843	-	0.00595	0.00200 U	0.00847	0.00150 U	-
B-6	12/20/2006	0.546	4.76 U	7.63	0.476 U	0.00155	0.000500 U	0.00287	0.00495	-
B-6	2/6/2007	1.50	5.28	1.02	0.476 U	0.000711	0.00108	0.0273	0.00835	-
B-6	5/8/2007	0.251	4.81 U	2.11	0.522	0.00118	0.000500 U	0.00810	0.00138	-
B-6	7/31/2007	0.0662	5.32 U	1.80	0.810	0.00111	0.000500 U	0.000537	0.00100 U	-
B-6	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
B-6	2/13/2008	0.0756	4.72 U	0.236 U	0.472 U	0.00161	0.000500 U	0.000500 U	0.00100 U	-
B-6	5/5/2008	0.0766	4.72 U	0.236 U	0.472 U	0.00144	0.000500 U	0.000500 U	0.00100 U	-
B-6	8/12/2008	0.0500	5.21 U	1.97	1.02	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-6	11/11/2008	0.845	4.90 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-6	2/24/2009	0.134	4.72 U	0.236 U	0.472 U	0.00281 U	0.000500 U	0.000500 U	0.00100 U	-
B-6	5/12/2009	0.0699	4.81 U	0.248 U	0.495 U	0.00103	0.000500 U	0.000500 U	0.00100 U	-
B-6	8/11/2009	0.0800	5.00 U	0.120 U	0.360	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-6	11/10/2009	0.140	5.00 U	0.610	0.240 U	0.00200	0.00100 U	0.00100 U	0.00100 U	-
B-6	03/29/2010	0.0500 U	5.00 U	2.90	1.20	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-6	06/11/2010	0.200	NA	11.0 Y	1.50	0.00100 U	0.00100 U	0.00110	0.00200 U	-
B-12	11/6/2007	1.77 J	NA	0.319	0.510 U	0.00159 J	0.000500 U	0.0231 J	0.00100 U	-
B-12	2/13/2008	0.989 J	NA	0.236 U	0.472 U	0.00121	0.000500 U	0.0119	0.00100 U	-
B-12	5/7/2008	0.950 J	NA	0.378	0.472 U	0.00109 J	0.000500 U	0.00922 J	0.00100 U	-
B-12	8/13/2008	1.70 J	NA	0.306	0.472 U	0.00193	0.000500 U	0.00330 J	0.00100 U	-
B-12	11/11/2008	1.72 J	NA	0.236 U	0.472 U	0.00159 J	0.000500 U	0.00510 J	0.00100 U	-
B-12	2/25/2009	4.37 J	NA	0.391	0.472 U	0.00207 J	0.000559 J	0.0407 J	0.00806 J	-
B-12	5/14/2009	3.54 J	NA	0.618	0.485 U	0.00178 J	0.00192 J	0.0385 J	0.00577 J	-
B-12	8/12/2009	4.70 J	NA	1.50	0.240 U	0.00100 U	0.00100 U	0.0120	0.00360	-
B-12	11/10/2009	3.70	NA	1.10	0.250 U	0.00110 U	0.00100 U	0.00840	0.00280	-
B-12	03/25/2010	0.910	NA	0.440	0.250 U	0.00100 U	0.00100 U	0.00410	0.00200 U	-
B-12	06/15/2010	1.90	NA	0.580 Y	0.340	0.00100 U	0.00100 U	0.00200	0.00200 U	-
B-16	1/29/2003	NS	4.81	NA	-	6.47	0.0371	0.0180	0.0901 J	-
B-16	4/29/2003	16.4	4.76 U	NA	-	7.81	0.105	0.117	0.134	-
B-16	8/25/2003	8.90	4.85 U	NA	-	0.760	0.0396	0.0469	0.0758	-
B-16	10/30/2003	2.20	5.00 U	NA	-	7.41	0.0648	0.0479	0.159	-
B-16	1/27/2004	28.9	5.00	NA	-	14.1	0.116	0.169	0.175	-
B-16	5/5/2004	13.8	5.00 U	NA	-	7.41	0.0776	0.0885	0.0594	-
B-16	8/10/2004	11.8	5.00 U	NA	-	2.76	0.0272	0.0197	0.0428	-
B-16	10/27/2004	13.7	5.00 U	NA	-	5.74	0.0325	0.0176	0.0609	-
B-16	2/10/2005	19.4	5.00 U	NA	-	11.3	0.0461	0.0350	0.0432	-
B-16	5/10/2005	13.3	5.00 U	NA	-	4.75	0.0250 U	0.0250 U	0.0500 U	-
B-16	8/4/2005	6.81	5.00 U	0.250 U	-	3.62	0.0345 J	0.0142 J	0.0500 J	-
B-16	11/8/2005	12.4	5.26 U	0.243 U	-	4.97	0.0178	0.0107	0.0337	-
B-16	2/9/2006	18.8	4.81 U	0.273	-	8.76	0.0582	0.150	0.100 U	-
B-16	5/2/2006	2.99	4.81 U	0.245 U	-	0.762	0.0106	0.0477	0.0233	-
B-16	8/2/2006	3.14	U	0.273	-	1.18	0.0200 U	0.0110	0.0150 U	-
B-16	12/20/2006	1.08	5.00 U	0.253 U	0.505 U	0.259 J	0.00156	0.00118	0.00573	-
B-16	2/6/2007	0.323	4.72 U	0.236 U	0.472 U	0.0422	0.000500 U	0.000500 U	0.00103	-
B-16	5/9/2007	0.205	4.85 U	0.236 U	0.472 U	0.0147	0.000500 U	0.000500 U	0.00100 U	-
B-16	7/31/2007	0.171	4.95 U	0.250 U	0.500 U	0.00935	0.000500 U	0.000500 U	0.00100 U	-
B-16	11/6/2007	0.129	5.00 U	0.250 U	0.500 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-16	2/13/2008	0.0500 U	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-16	5/5/2008	0.465	4.76 U	0.238 U	0.476 U	0.0337	0.000500 U	0.00104 U	0.00186	-
B-16	8/11/2008	0.0500 U	5.21 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-16	11/11/2008	0.0500 U	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-

Appendix A
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D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-16	2/24/2009	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-16	5/12/2009	0.0500 U	4.81 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-16	8/10/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-16	11/10/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
B-16	03/30/2010	0.0500 U	5.00 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-16	06/15/2010	0.0500 U	5.40 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-17B	8/24/1992	0.0500 U	NA	NA	-	0.00330	0.000500 U	0.000500 U	0.00100 U	-
B-17B	3/23/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	6/13/1993	0.0500 U	NA	NA	-	0.200	0.00270	0.000500 U	-0.99900 U	-
B-17B	9/16/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	12/15/1993	0.0500 U	NA	NA	-	0.00140	0.000500 U	0.000500 U	-0.99900 U	-
B-17B	2/1/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	6/21/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	8/18/1994	0.0500 U	NA	NA	-	0.00220	0.000500 U	0.000500 U	-0.99900 U	-
B-17B	12/7/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	2/21/1995	0.100	NA	NA	-	0.170	0.00210	0.00370	-0.99420	-
B-17B	6/21/1995	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	9/18/1995	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	12/12/1995	0.180	NA	NA	-	0.370	0.00200	0.000500 U	0.00140	-
B-17B	3/5/1996	0.0500 U	NA	NA	-	0.230	0.00850 U	0.000770	0.00140	-
B-17B	6/5/1996	0.119	NA	NA	-	0.0727	0.00290	0.00593	0.00542	-
B-17B	8/22/1996	0.100 U	NA	NA	-	0.147	0.00466	0.00191	0.0136	-
B-17B	12/4/1996	0.500 U	NA	NA	-	0.668	0.00850	0.000500 U	0.0225	-
B-17B	2/24/1997	0.0590	NA	NA	-	0.0510	0.00210	0.00320	0.00520	-
B-17B	5/28/1997	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/8/1997	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	12/11/1997	0.0500 U	14.0 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	3/3/1998	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	6/3/1998	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	9/4/1998	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	12/3/1998	0.0500 U	14.0 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	3/1/1999	0.0720	5.00 U	NA	-	0.0270	0.00100	0.00900	0.00600	-
B-17B	6/9/1999	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	8/24/1999	0.0480 U	4.00 U	NA	-	0.000200 U	0.000300	0.000210 U	0.000600 U	-
B-17B	11/18/1999	0.0480 U	4.00 U	NA	-	0.000200 U	0.000300	0.000210 U	0.000600 U	-
B-17B	2/16/2000	0.0480 U	1.90	NA	-	0.00430	0.000210	0.000210 U	0.000600 U	-
B-17B	5/16/2000	0.110	2.80 U	NA	-	0.220	0.00200	0.0100	0.00200	-
B-17B	8/23/2000	0.250 U	5.00 U	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-
B-17B	11/20/2000	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	2/14/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	5/9/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/8/2001	0.0500 U	5.00 U	NA	-	0.000800 U	0.000500 U	0.000500	0.00100 U	-
B-17B	11/6/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500	0.00100 U	-
B-17B	2/20/2002	0.530	5.00 U	NA	-	0.260	0.00370 U	0.0300	0.0330	-
B-17B	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-17B	8/20/2002	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	11/20/2002	0.0500 U	4.70 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	1/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	4/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/25/2003	0.100 U	5.05 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
B-17B	10/30/2003	0.0800 U	5.00 U	NA	-	0.000548	0.00128	0.000500 U	0.00236	-
B-17B	1/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	5/5/2004	0.300	5.00 U	NA	-	0.135	0.00464	0.00965	0.00652	-
B-17B	8/10/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000842	0.000500 U	0.00100 U	-
B-17B	10/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	2/8/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	5/10/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/2/2005	0.0500 U	5.00 U	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	11/9/2005	0.0500 U	4.76 U	0.238 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-17B	2/7/2006	0.0500 U	4.72 U	0.236 U	-	0.00403	0.000500 U	0.000500 U	0.00100 U	-
B-17B	5/2/2006	0.0500 U	4.81 U	0.236 U	-	0.000513	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/2/2006	0.100 U	5.00 U	0.250 U	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
B-17B	12/18/2006	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	2/5/2007	0.252	4.72 U	0.236 U	0.472 U	0.0560	0.00198	0.00961	0.00973	-
B-17B	5/7/2007	0.0500 U	4.72 U	0.236 U	0.472 U	0.00262	0.000500 U	0.000500 U	0.00100 U	-
B-17B	7/31/2007	0.0500 U	4.85 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	11/5/2007	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	2/12/2008	0.0500 U	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	5/5/2008	0.0500 U	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/12/2008	0.0500 U	5.21 U	0.238 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	11/11/2008	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	2/24/2009	0.0500 U	4.72 U	0.236 U	0.472 U	0.00986	0.000500 U	0.000500 U	0.00100 U	-
B-17B	5/11/2009	0.0500 U	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	8/10/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-17B	11/10/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
B-17B	03/29/2010	0.0500 U	6.90	0.120 U	1.50	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-17B	06/11/2010	0.0630	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-17B	09/15/2010	0.0500 U	5.00 U	0.120 U	0.300	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-17B	09/30/2011	0.0800 U	5.40 U	0.101 U	0.505 U	0.00209	0.000500 U	0.000500 U	0.00100 U	-
B-17B	9/13/2012	0.0500 U	NA	0.0890 J	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-17B	9/27/2013	0.0500 U	NA	0.120 U	0.240 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
B-17B	9/26/2014	0.05 U	NA	0.13 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	-
B-17B	9/24/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
B-17B	9/21/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 UJ	0.0010 UJ	0.0010 UJ	0.0030 UJ	-
B-17B	9/20/2017	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
B-17B	9/20/2018	0.150 U	NA	0.23 U	0.38 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
B-17B	9/12/2019	0.054 J	NA	0.27 U	0.13 U	0.00014 U	0.0001 U	0.0001 U	0.00031 U	-
B-17B	9/22/2020	0.070 U	NA	0.11 U	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
B-17B	9/14/2021	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
B-17B	8/3/2022	0.032 J	NA	0.11 U	0.12 U	0.000093 UJ	0.00031 UJ	0.00020 UJ	0.00044 UJ	-
B-17B	10/4/2023	0.150 U	NA	0.11 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
B-19	6/13/1993	140	NA	NA	-	39.0	25.0	2.80	14.0	-
B-19	9/16/1993	110	NA	NA	-	36.0	26.0	1.70	16.0	-
B-19	12/15/1993	110	NA	NA	-	30.0	25.0	2.10	13.0	-
B-19	2/1/1994	84.0	NA	NA	-	30.0	18.0	2.80	14.0	-
B-19	6/21/1994	42.0	NA	NA	-	16.0	2.60	2.00	6.90	-
B-19	8/18/1994	41.0	NA	NA	-	20.0	2.90	1.70	6.80	-
B-19	12/7/1994	48.0	NA	NA	-	13.0	7.00	1.40	6.30	-
B-19	2/21/1995	47.0	NA	NA	-	11.0	4.90	1.40	7.20	-
B-19	6/21/1995	44.0	NA	NA	-	14.0	2.60	1.90	1.70	-
B-19	9/18/1995	43.0	NA	NA	-	14.0	2.60	1.70	7.70	-
B-19	12/12/1995	56.0	NA	NA	-	9.20	8.20	0.160	9.70	-
B-19	3/6/1996	59.0	NA	NA	-	4.80	5.40	1.80	11.0	-
B-19	6/5/1996	35.2	NA	NA	-	3.42	1.20	1.20	5.09	-
B-19	8/22/1996	21.5	NA	NA	-	4.29	0.0880	1.31	3.52	-
B-19	12/4/1996	NS	NS	NS	-	NS	NS	NS	NS	-
B-19	2/24/1997	17.0	NA	NA	-	0.905	0.173	0.894	2.22	-
B-19	5/28/1997	23.2	NA	NA	-	2.97	0.182	1.34	3.92	-
B-19	8/8/1997	18.6	NA	NA	-	2.10	0.0900	0.900	2.41	-
B-19	12/10/1997	39.6	14.0 U	NA	-	1.49	0.150	1.92	6.66	-
B-19	3/3/1998	26.7	5.00 U	NA	-	0.760	0.0800	1.38	4.36	-
B-19	6/3/1998	17.9	27.2	NA	-	1.27	0.0723	1.26	2.59	-
B-19	8/25/1998	13.9	5.00 U	NA	-	1.49	0.0460	1.03	1.03	-
B-19	12/2/1998	18.7	14.0 U	NA	-	0.377	0.0643	1.41	4.15	-
B-19	3/1/1999	21.4	5.00 U	NA	-	0.460	0.0940	1.85	4.90	-
B-19	6/9/1999	NS	NS	NS	-	NS	NS	NS	NS	-
B-19	8/24/1999	NS	NS	NS	-	NS	NS	NS	NS	-

Appendix A
Summary of Historical Groundwater Analytical Results
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-19	11/19/1999	NS	NS	NS	-	NS	NS	NS	NS	-
B-19	2/16/2000	24.0	10.6	NA	-	0.0100 U	0.0540	1.10	4.70	-
B-19	5/17/2000	29.0	2.80 U	NA	-	0.0410	0.0530	1.40	6.20	-
B-19	8/24/2000	7.10	8.40 U	NA	-	0.360	0.0290	0.410	0.340	-
B-19	11/21/2000	6.02	5.00 U	NA	-	0.770	0.0260	0.600	0.0840	-
B-19	2/14/2001	8.35	5.00 U	NA	-	0.220	0.0120	1.09	1.04	-
B-19	5/9/2001	7.39	5.00 U	NA	-	0.430	0.0290	0.950	0.190	-
B-19	8/8/2001	5.17	5.00 U	NA	-	0.420	0.0300	0.480	0.0800	-
B-19	11/5/2001	5.03	5.00 U	NA	-	0.740	0.0150	0.480	0.0470	-
B-19	2/20/2002	11.7	5.00 U	NA	-	0.0450	0.0160	1.02	2.11	-
B-19	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-19	8/20/2002	8.34 J	5.00 U	NA	-	0.0379 J	0.0151 J	0.689 J	0.872 J	-
B-19	11/20/2002	7.72	4.90 U	NA	-	0.0424	0.0196	0.655	0.890	-
B-19	1/29/2003	1.16	5.00 U	NA	-	0.00371	0.00166	0.0852	0.0806	-
B-19	4/30/2003	6.52 J	4.95 U	NA	-	0.0123 J	0.00832 J	0.632 J	0.903 J	-
B-19	8/26/2003	2.06	5.15 U	NA	-	0.0813	0.0123	0.219	0.156	-
B-19	10/30/2003	2.52	5.00 U	NA	-	0.0339	0.0100 U	0.193	0.0629	-
B-19	1/27/2004	0.816	5.00 U	NA	-	0.00265	0.00216	0.0929	0.0588	-
B-19	5/5/2004	1.87	5.00 U	NA	-	0.0181	0.00572	0.0524	0.0129	-
B-19	8/11/2004	2.80	5.00 U	NA	-	0.0350	0.0132	0.0714	0.0151	-
B-19	10/29/2004	4.02 J	5.00 U	NA	-	0.0213 J	0.00491 J	0.329 J	0.0496 J	-
B-19	2/10/2005	3.67	5.00 U	NA	-	0.00939	0.00628	0.340	0.0408	-
B-19	5/10/2005	5.31	5.00 U	NA	-	0.0123	0.00290	0.314	0.0223	-
B-19	8/4/2005	3.32 J	5.60	0.507	-	0.0259 J	0.00685 J	0.0705 J	0.0139 J	-
B-19	11/10/2005	3.13	5.00 U	1.79	-	0.0392	0.0116	0.0754	0.0101	-
B-19	2/8/2006	0.892	4.81 U	0.236 U	-	0.00177	0.00203	0.0760	0.0157	-
B-19	5/3/2006	2.38	4.72 U	0.248 U	-	0.00318	0.00599	0.210	0.0196	-
B-19	8/1/2006	2.47	5.00 U	0.255	-	0.0557	0.0141	0.117	0.0362	-
B-19	12/21/2006	2.59	4.76 U	0.240 U	0.481 U	0.00404	0.00332	0.215	0.0431	-
B-19	2/7/2007	8.67 J	4.81 U	0.240 U	0.481 U	0.00516	0.00260	0.164	0.0211	-
B-19	5/9/2007	3.83 J	4.81 U	0.424	0.472 U	0.0187	0.00750	0.140	0.0252	-
B-19	8/2/2007	3.60	4.95 U	0.530	0.481 U	0.00765	0.00315	0.247	0.0131	-
B-19	11/7/2007	2.67	4.95 U	0.600	0.505 U	0.0207	0.00682	0.0422	0.0139	-
B-19	2/14/2008	2.96	0.472 U	0.282	0.472 U	0.00634	0.00199	0.197	0.0211	-
B-19	5/5/2008	3.26	4.76 U	1.41	0.481 U	0.0106	0.00330	0.109	0.137	-
B-19	8/14/2008	2.35	5.21 U	1.01	0.495 U	0.0129	0.00365	0.0723	0.00950	-
B-19	11/12/2008	2.79	4.81 U	0.620	0.481 U	0.00516	0.00250 U	0.189	0.00781	-
B-19	2/27/2009	1.80	4.81 U	0.364	0.481 U	0.00581	0.00115	0.192	0.00278	-
B-19	5/13/2009	3.02	4.72 U	0.603	0.476 U	0.0128	0.00250 U	0.320	0.00122	-
B-19	8/12/2009	3.00	5.00 U	0.980	0.240 U	0.00610	0.00170	0.120	0.0112	-
B-19	11/10/2009	2.70	5.00 U	1.20	0.240 U	0.00270	0.00100 U	0.120	0.00590	-
B-19	03/29/2010	1.50 J	5.00 U	0.610	0.250	0.00170	0.00100 U	0.0880	0.00200 U	-
B-19	06/09/2010	2.30	4.90 U	1.70 Y	0.270	0.00180	0.00150	0.0980	0.00270	-
B-19	6/15/2011	1.30	4.80 U	0.870	0.240 U	0.00100 U	0.00100 U	0.00670	0.00200 U	-
B-19	10/04/2011	1.75	5.00 U	1.20	0.250 U	0.00130	0.00100 U	0.0109	0.00338	-
B-19	12/5/2011	1.60	4.90 U	0.860	0.240 U	0.00100 U	0.00100 U	0.0230	0.00420	-
B-19	4/4/2012	1.30	5.10 U	1.30	0.600	0.00100 U	0.00100 U	0.0130	0.00280	-
B-19	6/13/2012	0.150 J	NA	0.800 J	0.240 UJ	0.0140 J	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
B-19	9/12/2012	2.30	NA	1.30	0.240 U	0.00240	0.00100	0.00870	0.00402	-
B-19	3/13/2013	0.960	NA	0.960	0.310	0.00100 U	0.00100 U	0.00730	0.00200 U	-
B-19	6/11/2013	1.10	NA	0.750	0.140	0.00100 U	0.00100 U	0.00740	0.00200 U	-
B-19	9/24/2013	1.80	NA	1.20	0.240 U	0.00150	0.00100	0.00870	0.00200 U	-
B-19	12/3/2013	1.1	NA	0.59	0.24 U	0.0014	0.001 U	0.0088	0.002 U	-
B-19	3/5/2014	1.8	NA	0.82	0.24 U	0.0015	0.001 U	0.0084	0.002 U	-
B-19	6/9/2014	1.5	NA	0.85	0.25 U	0.001 U	0.001 U	0.0028	0.002 U	-
B-19	9/25/2014	1.4 J	NA	1.1	0.59	0.001 U	0.001 U	0.004	0.002 U	-
B-19	12/15/2014	1.7 J	NA	1.3	0.43	0.0010 U	0.0010 U	0.0077	0.0020 U	-
B-19	3/26/2015	1.5	NA	0.69	0.24 U	0.0020 U	0.0020 U	0.0036	0.0030 U	-
B-19	6/16/2015	1.3 J	NA	0.84	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-19	9/24/2015	2.2 J	NA	1.8	0.26 U	0.0022	0.0020 U	0.0037	0.0030 U	-
B-19	12/21/2015	1.9	NA	1.5	0.61	0.0011 J	0.0010 U	0.0035	0.0030 U	-
B-19	3/23/2016	0.830	NA	0.665	0.38 U	0.00040 J	0.00052 J	0.0026	0.00079 J	-
B-19	6/22/2016	0.958 J	NA	1.59	1.01	0.00040 J	0.00048 J	0.0019	0.00081 J	-
B-19	9/22/2016	1.79	NA	1.01 J	0.154	0.0013	0.0012	0.0035	0.0015 J	-
B-19	12/7/2016	1.500	NA	1.10	0.13 J	0.00035	0.00040 J	0.0020	0.00091 J	-
B-19	3/20/2017	1.200	NA	0.89	0.15 J	0.00021 J	0.00037 J	0.0014	0.00062 J	-
B-19	6/20/2017	0.910	NA	0.79 J	0.16 J	0.00025 J	0.00052 J	0.0014	0.0013 J	-
B-19	9/21/2017	1.40	NA	1.3	0.18 J	0.00094	0.0011	0.0017	0.0023 J	-
B-19	3/20/2018	1.10	NA	1	0.19 J	0.00012 J	0.0010 U	0.0004 J	0.0030 U	-
B-19	9/20/2018	1.30	NA	1.4	0.67	0.00190	0.0011	0.0020	0.0021 J	-
B-19	3/12/2019	0.63	NA	0.85	0.35 J	0.00042	0.0006 J	0.0004 J	0.0006 J	-
B-19	9/11/2019	0.68 J	NA	0.89	0.13 U	0.00330	0.0019	0.0009 J	0.0013 J	-
B-19	9/22/2020	1.20	NA	0.93	0.18 J	0.0015	0.0013	0.020	0.00360	-
B-19	3/30/2021	0.33	NA	0.46	0.15 J	0.0001 U	0.0003 U	0.001 J	0.00044 U	-
B-19	9/14/2021	1.30	NA	0.96	0.12 U	0.0033	0.0015	0.036	0.00380	-
B-19	8/2/2022	0.56	NA	0.60	0.14 J	0.0001 U	0.0004 J	0.004	0.00074 J	-
B-19	10/4/2023	0.97	NA	0.8	0.41 U	0.0021	0.00082 J	0.0054	0.00044 U	-
B-20	12/12/1995	4.00 U	NA	NA	-	15.0	0.0800 U	0.120	0.160 U	-
B-20	3/6/1996	7.10	NA	NA	-	20.0	0.0140	0.230	0.0640	-
B-20	6/5/1996	5.00 U	NA	NA	-	6.75	0.0500 U	0.113	0.100 U	-
B-20	8/22/1996	3.18	NA	NA	-	2.58	0.0250 U	0.0332	0.0500 U	-
B-20	12/4/1996	3.36	NA	NA	-	6.17	0.0298	0.0449	0.0644	-
B-20	2/24/1997	5.01	NA	NA	-	7.21	0.00780	0.144	0.0640	-
B-20	5/28/1997	8.53	NA	NA	-	8.24	0.0500 U	0.210	0.133	-
B-20	8/11/1997	5.70	NA	NA	-	11.4	0.00900	0.110	0.0300	-
B-20	12/10/1997	4.99	14.0 U	NA	-	7.09	0.0500 U	0.0850	0.100 U	-
B-20	3/3/1998	3.07	5.00 U	NA	-	3.53	0.0250 U	0.0490	0.0500 U	-
B-20	6/3/1998	4.36	23.1	NA	-	2.85	0.0250 U	0.0430	0.0500 U	-
B-20	8/25/1998	NS	NS	NS	-	NS	NS	NS	NS	-
B-20	12/3/1998	2.50 U	14.0 U	NA	-	1.06	0.0250 U	0.0250 U	0.0500 U	-
B-20	3/1/1999	5.65	11.5	NA	-	4.65	0.0500 U	0.170	0.100 U	-
B-20	6/9/1999	2.00	4.00 U	NA	-	0.860	0.00600	0.0260	0.0500	-
B-20	8/24/1999	1.80	8.20	NA	-	0.780	0.00400	0.0100	0.00700	-
B-20	11/18/1999	NS	NS	NS	-	NS	NS	NS	NS	-
B-20	2/16/2000	1.30	9.60	NA	-	0.170	0.00410	0.00790	-0.99500 U	-
B-20	5/16/2000	NS	NS	NS	-	NS	NS	NS	NS	-
B-20	8/24/2000	2.00	8.40 U	NA	-	1.60	0.00470	0.0170	0.00600	-
B-20	11/21/2000	3.74	5.00 U	NA	-	1.41	0.0250 U	0.0380	0.0500 U	-
B-20	2/14/2001	5.71	5.00 U	NA	-	1.69	0.0250 U	0.0830	0.0500 U	-
B-20	5/9/2001	6.50	5.00 U	NA	-	1.35	0.0250 U	0.0860	0.0500 U	-
B-20	8/8/2001	3.15	5.00 U	NA	-	0.760	0.00400	0.0320	0.00400	-
B-20	11/5/2001	6.20	5.00 U	NA	-	1.45	0.0110	0.0960	0.00800	-
B-20	2/20/2002	4.54	5.00 U	NA	-	0.920	0.0100	0.0620	0.0110	-
B-20	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-20	8/20/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-20	11/20/2002	6.27	6.57	NA	-	1.32	0.0250 U	0.0936	0.0500 U	-
B-20	1/29/2003	6.91	4.81 U	NA	-	1.41	0.0100 U	0.185	0.0200	-
B-20	4/30/2003	5.49 J	5.00 U	NA	-	1.45	0.0117 J	0.156 J	0.0155 J	-
B-20	8/25/2003	NS	NS	NS	-	NS	NS	NS	NS	-
B-20	10/31/2003	2.17	9.60	NA	-	0.589	0.00614	0.0326	0.0275	-
B-20	1/27/2004	7.37	5.00 U	NA	-	1.20	0.0140	0.0743	0.0263	-
B-20	5/6/2004	0.138	NA	NA	-	0.00145	0.000802	0.000500 U	0.00196	-
B-20	8/11/2004	2.52	7.30	NA	-	0.716	0.00313	0.00757	0.00545	-
B-20	10/29/2004	2.09 J	5.00 U	NA	-	0.0807 J	0.00168 J	0.00637 J	0.00538 J	-
B-20	2/10/2005	6.20	8.88	NA	-	0.834	0.0148	0.0539	0.0161	-
B-20	5/11/2005	5.07	5.30	NA	-	0.651	0.0114	0.0318	0.0126	-
B-20	8/4/2005	4.41 J	7.35	7.89	-	0.692	0.00555 J	0.0177 J	0.00914 J	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-20	11/10/2005	5.39	5.21 U	4.82	-	0.394	0.00524	0.0246	0.00951	-
B-20	2/8/2006	5.85	4.90 U	1.79	-	0.424	0.00849	0.0544	0.00957	-
B-20	5/3/2006	4.29 J	4.81 U	1.10	-	0.299	0.00561 J	0.0226 J	0.00784 J	-
B-20	8/1/2006	0.880	5.00 U	0.407	-	0.0188	0.00200 U	0.00305	0.00404	-
B-20	12/19/2006	2.99 J	4.81 U	0.683	0.481 U	0.0823 J	0.00813 J	0.0490 J	0.00599 J	-
B-20	2/8/2007	3.30 J	4.72	0.729	0.472 U	0.0995	0.00992	0.0374	0.0122	-
B-20	5/10/2007	2.54	4.76 U	0.730	0.472 U	0.196	0.00566	0.0140	0.00780	-
B-20	8/2/2007	2.65	4.72 U	1.57	0.521 U	0.159	0.00508	0.0212	0.00748	-
B-20	11/7/2007	2.10	5.68 U	0.893	1.04	0.0751	0.00326	0.00870	0.00530	-
B-20	2/14/2008	2.28	4.72 U	0.349	0.481 U	0.0674	0.00538	0.0150	0.00597	-
B-20	5/5/2008	1.88	4.76 U	1.41	0.472 U	0.0360	0.00285	0.00806	0.00806	-
B-20	8/14/2008	0.946	5.21 U	NS	2.45 U	0.0407	0.00312	0.00561	0.00554	-
B-20	11/12/2008	3.35	4.81 U	2.95	0.613	0.0689	0.00614	0.0143	0.0123	-
B-20	2/25/2009	2.73 J	5.05	1.84	0.472 U	0.0205 J	0.00141 J	0.0254 J	0.0166 J	-
B-20	5/13/2009	2.83 J	4.81 U	4.30	0.915	0.0170 J	0.00158 J	0.164 J	0.0597 J	-
B-20	8/13/2009	3.70	5.00 U	1.40	0.250 U	0.00940	0.00260	0.00880	0.0162	-
B-20	11/10/2009	3.50	5.00 U	2.20	0.240 U	0.0180	0.00290	0.00590	0.0111	-
B-20	03/29/2010	0.330	63.0	2.00	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-20	06/09/2010	1.50	5.10	2.20 Y	0.580	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-25	8/24/1992	53.0	NA	NA	-	0.370	0.0670	2.10	9.80	-
B-25	3/23/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-25	6/13/1993	60.0	NA	NA	-	0.290	0.0780	1.60	9.00	-
B-25	9/16/1993	25.0	NA	NA	-	0.500	0.0390	0.840	3.70	-
B-25	12/15/1993	17.0	NA	NA	-	0.750	0.0350	0.480	1.60	-
B-25	2/1/1994	25.0	NA	NA	-	0.400	0.0800	1.10	5.00	-
B-25	6/21/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-25	8/18/1994	23.0	NA	NA	-	1.40	0.0420	0.870	3.10	-
B-25	12/7/1994	10.0	NA	NA	-	0.890	U	0.320	1.10	-
B-25	2/21/1995	25.0	NA	NA	-	0.480	0.0160	0.420	3.10	-
B-25	6/21/1995	NS	NS	NS	-	NS	NS	NS	NS	-
B-25	9/18/1995	29.0	NA	NA	-	0.840	0.0210	1.20	3.10	-
B-25	12/12/1995	30.0	NA	NA	-	0.520	0.0170	0.460	2.80	-
B-25	3/6/1996	51.0	NA	NA	-	0.330	0.0130	0.980	5.80	-
B-25	6/5/1996	19.0	NA	NA	-	0.540	0.0178	0.430	1.49	-
B-25	8/22/1996	24.8	NA	NA	-	0.660	0.0500 U	0.805	2.56	-
B-25	12/4/1996	14.8	NA	NA	-	0.380	0.0159	0.288	0.843	-
B-25	2/24/1997	27.0	NA	NA	-	0.200	0.0130	0.580	2.28	-
B-25	5/28/1997	15.3	NA	NA	-	0.299	0.0254	0.437	1.55	-
B-25	8/8/1997	22.8	NA	NA	-	0.200	0.0190	0.610	2.29	-
B-25	12/10/1997	14.4	14.0 U	NA	-	0.170	0.0130	0.330	1.33	-
B-25	3/3/1998	8.77	5.00 U	NA	-	0.200	0.0160	0.160	0.670	-
B-25	6/3/1998	16.8	5.00 U	NA	-	0.162	0.0130 U	0.451	1.74	-
B-25	8/25/1998	15.5	5.00 U	NA	-	0.150	0.0140	0.450	1.78	-
B-25	12/2/1998	10.1	14.0 U	NA	-	1.96	0.0167	0.205	0.897	-
B-25	3/1/1999	7.49	5.00 U	NA	-	0.450	0.0150	0.120	0.430	-
B-25	6/9/1999	16.0	4.00 U	NA	-	0.240	0.0170	0.250	0.960	-
B-25	8/24/1999	14.0	4.10	NA	-	0.260	0.0180	0.190	0.640	-
B-25	11/19/1999	6.80	4.00 U	NA	-	2.20	0.0220	0.0940	0.280	-
B-25	2/16/2000	5.50	12.8	NA	-	0.490	0.0120	0.0540	0.160	-
B-25	5/17/2000	7.80	2.80 U	NA	-	0.540	0.0170	0.0900	0.320	-
B-25	8/24/2000	7.60	8.40 U	NA	-	0.540	0.0140	0.0800	0.260	-
B-25	11/21/2000	10.1	5.00 U	NA	-	1.90	0.0250 U	0.0790	0.220	-
B-25	2/14/2001	10.1	5.00 U	NA	-	0.970	0.0130 U	0.110	0.300	-
B-25	5/9/2001	7.44	5.00 U	NA	-	0.520	0.0110	0.0510	0.150	-
B-25	8/8/2001	7.71	5.00 U	NA	-	0.400	0.00900	0.0460	0.120	-
B-25	11/5/2001	6.78	5.00 U	NA	-	0.530	0.00900	0.0390	0.0950	-
B-25	2/20/2002	5.20	5.00 U	NA	-	0.570	0.01700	0.0320	0.0660	-
B-25	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-

Appendix A
Summary of Historical Groundwater Analytical Results
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-25	8/20/2002	10.3 J	5.00 U	NA	-	0.280 J	0.00692 J	0.0426 J	0.0981 J	-
B-25	11/19/2002	7.97	5.00 U	NA	-	0.220	0.00446	0.0372	0.0764	-
B-25	1/29/2003	8.01 J	4.85 U	NA	-	0.384	0.00843	0.0276	0.0656	-
B-25	4/30/2003	6.00 J	4.90 U	NA	-	0.286 J	0.0110 J	0.0255 J	0.0480 J	-
B-25	8/26/2003	6.52	5.00 U	NA	-	0.144	0.00347	0.0395	0.0692	-
B-25	11/4/2003	10.7	4.72 U	NA	-	0.149	0.00500 U	0.0278	0.0571	-
B-25	1/27/2004	6.34	5.00 U	NA	-	0.185	0.00370	0.0114	0.0232	-
B-25	5/6/2004	5.80	5.00 U	NA	-	0.210	0.00784	0.0143	0.0245	-
B-25	8/11/2004	8.32	5.00 U	NA	-	0.0730	0.00277	0.0209	0.0391	-
B-25	10/28/2004	9.80 J	5.00 U	NA	-	0.111 J	0.00318 J	0.0141 J	0.0253 J	-
B-25	2/10/2005	6.60	5.00 U	NA	-	0.159	0.00286	0.00934	0.0205	-
B-25	5/10/2005	6.50	5.00 U	NA	-	0.108	0.00490	0.00779	0.0135	-
B-25	8/4/2005	6.21	5.00 U	0.544	-	0.0750	0.00340	0.00957	0.0169	-
B-25	11/8/2005	7.29	4.85 U	0.486	-	0.105	0.00246	0.00688	0.0128	-
B-25	2/8/2006	3.80	4.76 U	0.314	-	0.0416	0.000966	0.00287	0.00650	-
B-25	5/3/2006	10.0	4.72 U	0.618	-	0.0652	0.00250 U	0.00655	0.0130	-
B-25	8/2/2006	7.95	5.00 U	2.02	-	0.105	0.0100 U	0.00798	0.00750 U	-
B-25	12/19/2006	6.54	4.72 U	0.346	0.481 U	0.101 J	0.00313	0.00390	0.00706	-
B-25	2/7/2007	2.23 J	4.72 U	0.379	0.472 U	0.0660 J	0.00302	0.00538 J	0.0102 J	-
B-25	5/9/2007	7.16 J	4.72 U	0.687	0.472 U	0.146 J	0.00590	0.0169 J	0.0195	-
B-25	8/1/2007	3.86 J	5.00 U	0.836	0.485 U	0.0156 J	0.00200 J	0.000777 J	0.00204 J	-
B-25	11/6/2007	12.4 J	4.81 U	0.856	0.481 U	0.0900 J	0.0311 J	0.0139 J	0.0458 J	-
B-25	2/14/2008	7.23	4.72 U	0.349	0.472 U	0.0451	0.00265	0.00250 U	0.00740	-
B-25	5/5/2008	5.66	4.72 U	0.784	0.472 U	0.0758	0.00420	0.00250 U	0.00986	-
B-25	8/13/2008	7.62	5.21 U	0.621	0.476 U	0.0380	0.00250 U	0.00333	0.00894	-
B-25	11/11/2008	7.31	4.90 U	0.687	0.481 U	0.0719	0.00316	0.00425	0.00820	-
B-25	2/24/2009	6.84	4.72 U	0.496	0.472 U	0.0384 J	0.00250 U	0.00250 U	0.00574	-
B-25	5/13/2009	6.14	4.72 U	0.563	0.481 U	0.0406	0.00250 U	0.00273	0.00552	-
B-25	8/11/2009	8.20	5.00 U	2.40	0.250 U	0.110	0.00190	0.00310	0.00460	-
B-25	11/11/2009	6.10	5.00 U	1.80	0.240 U	0.0720 J	0.00220	0.00190	0.00450	-
B-25	03/23/2010	8.80	5.00 U	3.20	0.250 U	0.00620	0.00100 U	0.00100 U	0.00240	-
B-25	06/09/2010	8.20	5.00 U	2.90 Y	0.240 U	0.0240	0.00100 U	0.00110	0.00220	-
B-25	09/15/2010	6.40	4.80 U	3.50 Y	0.310	0.0800	0.00200	0.00420	0.00320	-
B-25	12/20/2010	3.00	4.80 U	1.20	0.320	0.440	0.00530	0.00290	0.0120	-
B-25	3/11/2011	3.30	5.10 U	0.500	0.250 U	0.110	0.00400	0.00230	0.00940	-
B-25	6/16/2011	4.20	5.10 U	1.20	0.250 U	0.130	0.00500	0.00270	0.0110	-
B-25	09/30/2011	2.68	5.30 U	1.02	0.500 U	0.331	0.00825	0.00250 U	0.0163	-
B-25	12/6/2011	2.80	5.20 U	1.00	0.250 U	0.0810	0.00670	0.00380	0.0120	-
B-25	4/3/2012	2.30	5.30 U	1.50	0.240 U	0.500	0.00350	0.00290	0.00580	-
B-25	6/12/2012	2.90	NA	1.00	0.240 U	0.210	0.00500	0.00300	0.0110	-
B-25	9/13/2012	4.00	NA	1.10	0.240 U	0.200	0.00520	0.00230	0.0110	-
B-25	12/11/2012	2.10	NA	0.910	0.240 U	1.50	0.0110	0.00760	0.0150	-
B-25	3/14/2013	1.60	NA	0.760	0.260 U	0.540	0.00700	0.00250	0.0170	-
B-25	6/10/2013	2.00	NA	0.610	0.0500 U	0.410	0.00600	0.00170	0.0100	-
B-25	9/26/2013	3.50	NA	0.420	0.240 U	0.400	0.00660	0.00500 U	0.0110	-
B-25	12/5/2013	2.1	NA	0.46	0.24 U	0.42	0.0091	0.0033	0.0203	-
B-25	3/6/2014	2.6	NA	0.57	0.24 U	0.8	0.0064	0.0059	0.012	-
B-25	6/11/2014	2.5 J	NA	0.96 J	0.24 U	- R	- R	- R	-	-
B-25	9/24/2014	2.0 J	NA	1.4	0.24 U	0.45	0.0074	0.0019	0.0182	-
B-25	12/15/2014	1.9 J	NA	0.74	0.24 U	0.33	0.010 U	0.010 U	0.020 U	-
B-25	3/25/2015	2.2	NA	0.75	0.24 U	0.090	0.0054	0.0030 U	0.014	-
B-25	6/15/2015	2.8 J	NA	0.69	0.25 U	0.15	0.0080 U	0.012 U	0.012 U	-
B-25	9/24/2015	2.1 J	NA	0.87	0.26 U	- R	0.0040	0.0030 U	0.0074	-
B-25	12/21/2015	2.6	NA	0.97	0.39 U	0.530 J	0.0055	0.0032	0.0092	-
B-25	3/23/2016	1.05	NA	0.283	0.19 U	0.0711 J	0.0016 J	0.00084 J	0.0020 J	-
B-25	6/22/2016	2.68 J	NA	0.336 J	0.250 J	0.175 J	0.0036	0.0035	0.0075	-
B-25	9/22/2016	2.70	NA	0.478	0.0713 J	0.150 J	0.0027	0.00074 J	0.0033	-
B-25	12/8/2016	1.700	NA	0.59 J	0.12 U	0.130	0.0031 J	0.010 U	0.0055 J	-
B-25	3/21/2017	2.300	NA	0.94	0.40 U	0.310	0.0010 U	0.0010 U	0.0030 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-25	6/20/2017	2.20	NA	0.81	0.42 U	0.092	0.0029	0.0010	0.0089	-
B-25	9/19/2017	1.80	NA	0.69	0.44 U	0.067	0.00220	0.00072 J	0.0042	-
B-25	12/12/2017	2.50	NA	0.95	0.40 U	0.460	0.00350	0.00220	0.0068	-
B-25	3/21/2018	3.10	NA	1.20	0.14 J	0.450	0.00250	0.00310	0.0051	-
B-25	6/19/2018	2.00	NA	0.86	0.41 U	0.089	0.00200	0.00079 J	0.0044	-
B-25	9/17/2018	2.00	NA	1.10	0.24 J	0.220	0.00140	0.00079 J	0.0022 J	-
B-25	12/11/2018	4.00	NA	2.50	0.58	0.970	0.00530	0.00310	0.0071	-
B-25	3/14/2019	2.30	NA	0.72	0.11 J	0.120	0.00340 J	0.00200 U	0.0059 J	-
B-25	6/18/2019	1.40	NA	0.88	0.11 U	0.036	0.00140	0.00050 J	0.0023 J	-
B-25	9/12/2019	1.40	NA	0.78	0.12 U	0.092	0.00130	0.00048 J	0.0018 J	-
B-25	12/11/2019	2.10	NA	0.95	0.13 J	0.340	0.0027	0.00120	0.00410	-
B-25	3/24/2020	1.60	NA	0.92	0.17 J	45	0.0013	0.00055 J	0.00270 J	-
B-25	6/24/2020	1.30 J	NA	0.53	0.13 U	0.086	0.0013	0.00044 J	0.0025 J	-
B-25	9/23/2020	1.80	NA	0.53	0.13 U	0.140	0.0012	0.00038 J	0.00140 J	-
B-25	12/14/2020	2.30	NA	0.93	0.12 J	0.360	0.0028	0.00190	0.00430	-
B-25	3/31/2021	1.30	NA	0.60	0.11 U	0.033	0.0003 U	0.00020 U	0.00140 J	-
B-25	6/23/2021	1.80	NA	0.61	0.12 U	0.097	0.0008 J	0.00030 J	0.00110 J	-
B-25	9/13/2021	2.30	NA	0.78	0.13 U	0.230	0.0016	0.00081 J	0.00220 J	-
B-25	12/6/2021	1.80	NA	0.84	0.29 J	0.110	0.0014	0.00069 J	0.00200 J	-
B-25	2/9/2022	1.30	NA	0.47	0.12 U	0.020	0.0005 J	0.00020 U	0.00052 J	-
B-25	5/4/2022	1.80	NA	0.57	0.17 J	0.079	0.0010	0.00032 J	0.00170 J	-
B-25	8/2/2022	1.60	NA	0.51	0.12 J	0.042	0.0006 J	0.00020 U	0.00059 J	-
B-25	4/12/2023	1.80	NA	0.66	0.11 U	0.036	0.00091 J	0.00036 J	0.00120 J	-
B-25	10/5/2023	3.20	NA	0.93	0.12 U	0.0044	0.00085 J	0.00033 J	0.00099 J	-
B-30	9/16/1993	0.000500 U	NA	NA	-	0.000650	0.000500 U	0.000500 U	0.000500 U	-
B-30	12/15/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-30	2/1/1994	0.000500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.000500 U	-
B-30	6/21/1994	0.000500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.000500 U	-
B-30	8/18/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-30	12/7/1994	0.000500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.000500 U	-
B-30	2/21/1995	0.000500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.000500 U	-
B-30	6/21/1995	0.000500 U	NA	NA	-	0.000500 U	0.000520	0.000500 U	0.000500 U	-
B-30	8/20/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-30	11/19/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-30	1/29/2003	NS	4.81 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	4/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	8/25/2003	0.100 U	1.04 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
B-30	10/30/2003	0.0800 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00150 U	-
B-30	1/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	5/5/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	8/10/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	10/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	2/8/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	5/10/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	8/2/2005	0.0500 U	5.00 U	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	11/8/2005	0.0500 U	4.76 U	0.240 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	2/7/2006	0.0500 U	4.72 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	5/3/2006	0.0500 U	4.76 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	8/3/2006	0.0500 U	4.76 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	12/20/2006	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	2/6/2007	0.0500 U	4.81 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	5/8/2007	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	7/31/2007	0.0500 U	4.95 U	0.255 U	0.510 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	11/6/2007	0.0500 U	5.00 U	0.253 U	0.505 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	2/12/2008	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	5/5/2008	0.0500 U	4.72 U	0.243 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	8/12/2008	0.0500 U	5.21 U	0.248 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-30	11/10/2008	0.0500 U	4.85 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	2/24/2009	0.0500 U	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	5/12/2009	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	8/11/2009	0.0500 U	5.00 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-30	11/10/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
B-30	03/29/2010	0.0500 U	5.00 U	0.120 U	0.250	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-30	06/15/2010	0.0500 U	5.10 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-30	09/15/2010	0.0500 U	5.00 U	0.130 U	0.260 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-30	09/29/2011	0.0800 UJ	5.30 UJ	0.120 UJ	0.240 UJ	0.000200 UJ	0.000500 UJ	0.000500 UJ	0.00100 UJ	-
B-30	9/13/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-30	9/26/2013	0.0500 U	NA	0.120 U	0.240 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
B-30	9/25/2014	0.05 U	NA	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	-
B-30	9/23/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
B-30	9/20/2016	0.10 U	NA	0.094 U	0.094 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
B-30	9/20/2017	0.150 U	NA	0.26 U	0.44 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
B-30	9/20/2018	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
B-30	9/9/2019	0.048 U	NA	0.26 U	0.13 U	0.00014 U	0.00013 U	0.00014 U	0.00031 U	-
B-30	9/23/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
B-31	8/24/1992	0.880	NA	NA	-	0.120	0.0200	0.00610	0.0350	-
B-31	3/23/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-31	6/13/1993	0.0740	NA	NA	-	0.00800	0.00110	0.000100 U	-0.99760	-
B-31	9/16/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-31	12/15/1993	1.20	NA	NA	-	0.180	0.0180	0.00990	-0.9730	-
B-31	2/1/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-31	6/21/1994	5.00 U	NA	NA	-	0.00200	0.000100 U	0.000100 U	-0.999900 U	-
B-31	8/18/1994	NS	NS	NS	-	NS	NS	NS	NS	-
B-31	12/7/1994	0.650	NA	NA	-	0.0480	0.00720	0.0360	0.0490	-
B-31	2/21/1995	0.0510	NA	NA	-	0.00450	U	0.000910	0.00110	-
B-31	6/21/1995	0.370	NA	NA	-	0.0100	0.00550	0.00220	0.00820	-
B-31	9/18/1995	1.30	NA	NA	-	0.0870	0.0110	0.00550	0.0220	-
B-31	12/12/1995	0.220	NA	NA	-	0.0140	0.00610	0.00330	0.0180	-
B-31	3/6/1996	3.90	NA	NA	-	0.150	0.0150	0.130	0.0230	-
B-31	6/5/1996	2.82	NA	NA	-	0.100	0.00621	0.0581	0.0248	-
B-31	8/21/1996	1.39	NA	NA	-	0.179	0.0127	0.0123	0.0506	-
B-31	12/3/1996	1.73	NA	NA	-	0.161	0.0133	0.0258	0.0539	-
B-31	2/20/1997	1.76	NA	NA	-	0.124	0.00670	0.0877	0.0124	-
B-31	5/28/1997	3.01	NA	NA	-	0.0780	0.00450	0.0905	0.00680	-
B-31	8/11/1997	1.91	NA	NA	-	0.140	0.0170	0.0160	0.0490	-
B-31	12/11/1997	0.490	14.0 U	NA	-	0.0610	0.00900	0.0120	0.0180	-
B-31	3/4/1998	1.31	5.00 U	NA	-	0.0670	0.00400	0.0300	0.0130	-
B-31	6/2/1998	1.90	5.00 U	NA	-	0.0745	0.0170	0.0157	0.0358	-
B-31	9/4/1998	1.20	5.00 U	NA	-	0.0400	0.00300	0.0150	0.0720	-
B-31	12/3/1998	0.279	14.0 U	NA	-	0.0245	0.00272	0.00205	0.0123	-
B-31	3/1/1999	2.51	5.00 U	NA	-	0.0920	0.0320	0.187	0.0250	-
B-31	6/9/1999	4.30	5.60	NA	-	0.130	0.100	0.0890	0.160	-
B-31	8/24/1999	2.70	4.00 U	NA	-	0.100	0.0290	0.0210	0.0580	-
B-31	11/18/1999	3.30	4.00	NA	-	0.200	0.0350	0.0440	0.0950	-
B-31	2/16/2000	1.10	7.30	NA	-	0.0410	0.00680	0.0430	0.00810	-
B-31	5/16/2000	1.20	2.80 U	NA	-	0.0450	0.0190	0.0190	0.0270	-
B-31	8/23/2000	0.940	8.40 U	NA	-	0.0550	0.0150	0.0110	0.0270	-
B-31	11/20/2000	2.73	5.00 U	NA	-	0.170	0.0330	0.0410	0.0760	-
B-31	2/15/2001	2.42	5.00 U	NA	-	0.0730	0.0350	0.0780	0.0610	-
B-31	5/9/2001	1.93	5.00 U	NA	-	0.0720	0.0480	0.0550	0.0700	-
B-31	8/8/2001	1.02	5.00 U	NA	-	0.0430	0.0220	0.0180	0.0330	-
B-31	11/5/2001	2.78	5.00 U	NA	-	0.0890	0.0290	0.0310	0.0630	-
B-31	2/20/2002	1.39	5.00 U	NA	-	0.0270	0.00400	0.0630	0.0200	-
B-31	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-

Appendix A
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-31	8/20/2002	0.847 J	5.00 U	NA	-	0.0361 J	0.0223 J	0.00715 J	0.0205 J	-
B-31	11/20/2002	0.711	6.10 U	NA	-	0.0241	0.00692	0.00320	0.0108	-
B-31	1/29/2003	0.0737	4.72 U	NA	-	0.00310 U	0.000500 U	0.000500 U	0.00187 J	-
B-31	4/29/2003	0.300	5.00 U	NA	-	0.00452	0.000712 J	0.00274	0.00283 J	-
B-31	8/25/2003	NS	NS	NS	-	NS	NS	NS	NS	-
B-31	10/31/2003	0.204	5.00 U	NA	-	0.00822	0.00440	0.0115	0.0147	-
B-31	1/27/2004	0.390	5.00 U	NA	-	0.0125	0.00208	0.00829	0.00651	-
B-31	5/6/2004	0.179	5.00 U	NA	-	0.00132	0.000500 U	0.000500 U	0.00189	-
B-31	8/11/2004	0.237	5.00 U	NA	-	0.00772	0.00190	0.000798	0.00290	-
B-31	10/29/2004	0.518	5.00 U	NA	-	0.00847	0.00578	0.00234	0.00646	-
B-31	2/8/2005	0.139	5.00 U	NA	-	0.00244	0.00159	0.00165	0.00534	-
B-31	5/10/2005	0.362	5.00 U	NA	-	0.00647	0.00436	0.00553	0.0115	-
B-31	8/2/2005	0.158 J	5.56 U	0.305 U	-	0.0104	0.00410	0.00216	0.00139 J	-
B-31	11/9/2005	1.50	5.00 U	0.371 U	-	0.0211	0.00772	0.00663	0.0122	-
B-31	2/7/2006	3.35	4.76 U	2.04	-	0.0115	0.0258	0.198	0.286	-
B-31	5/2/2006	2.35	4.81 U	2.07	-	0.00916	0.00446	0.0892	0.0238	-
B-31	8/2/2006	0.850	5.00 U	0.296	-	0.0232	0.0100 U	0.00500 U	0.00750 U	-
B-31	12/20/2006	0.900	4.76 U	0.316	0.476 U	0.00735	0.00626	0.0325	0.0198	-
B-31	2/6/2007	1.97	4.76 U	0.240 U	0.481 U	0.00766	0.00704	0.0827	0.0129	-
B-31	5/8/2007	1.89 J	4.90 U	0.238 U	0.476 U	0.00665	0.00504	0.0302	0.00652	-
B-31	7/31/2007	0.540	5.21 U	0.266 U	0.532 U	0.00379	0.00144	0.00338	0.00239	-
B-31	11/8/2007	0.550	5.49 U	0.287 U	0.575 U	0.00175	0.000650	0.000500 U	0.00220	-
B-31	2/13/2008	0.302	4.76 U	0.238 U	0.476 U	0.00326	0.00164	0.00428	0.00254	-
B-31	5/5/2008	0.0500 U	4.72 U	0.236 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
B-31	8/12/2008	0.286	5.21 U	0.236 U	0.536	0.000770	0.000500 U	0.000500 U	0.00178	-
B-31	11/11/2008	0.331	4.95 U	0.240 U	0.481 U	0.00140	0.000500 U	0.000570	0.00263	-
B-31	2/24/2009	0.346	4.72 U	0.236 U	0.472 U	0.00209	0.000803	0.00258	0.00516	-
B-31	5/12/2009	0.337	4.72 U	0.359	0.472 U	0.00116	0.000500 U	0.00398	0.00314	-
B-31	8/11/2009	0.410	5.00 U	0.250	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-31	11/10/2009	0.550	5.00 U	0.310	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
B-31	03/29/2010	0.740	11.0	14.0	0.250 U	0.00200	0.00110	0.0260	0.00150	-
B-31	06/14/2010	1.80	5.20 U	10.0 Y	0.750	0.00240	0.00110	0.0440	0.00400	-
B-31	09/16/2010	0.910	5.20 U		NA	0.00130	0.00120	0.00140	0.00110	-
B-31	12/16/2010	0.880	4.90 U	2.10	0.240	0.00170	0.00100 U	0.00720	0.00650	-
B-31	3/10/2011	1.30	4.80 U	3.70	0.250 U	0.00130	0.00100 U	0.0190	0.00490	-
B-31	6/15/2011	0.620	5.00 U	1.20	0.280	0.00100 U	0.00100 U	0.0250	0.00200 U	-
B-31	09/29/2011	0.328 J	5.40 UJ	0.450 J	0.250 UJ	0.000200 UJ	0.000500 UJ	0.000500 UJ	0.00129 J	-
B-31	12/8/2011	0.220	4.80 U	0.130 U	0.260 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-31	4/4/2012	0.500	5.20 U	5.90	0.980	0.00100 U	0.00120	0.0160	0.00200 U	-
B-31	6/12/2012	1.20	NA	0.570	0.240 U	0.00100 U	0.00100 U	0.00280	0.00110	-
B-31	9/12/2012	0.670	NA	0.840	3.30	0.000820 J	0.000880 J	0.000360 J	0.00270	-
B-31	12/10/2012	0.0500 UJ	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-31	3/13/2013	0.400	NA	4.00	0.620	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
B-31	6/10/2013	1.10	NA	8.30	1.70	0.00200	0.00330	0.0130	0.0115	-
B-31	9/26/2013	1.30	NA	0.480	0.240 U	0.00230	0.00490	0.00250 U	0.0160	-
B-31	12/5/2013	1.1	NA	0.31	0.24 U	0.0019	0.0041	0.0054	0.0133	-
B-31	3/5/2014	0.41	NA	0.84	0.24 U	0.001 U	0.001 U	0.0026	0.0099	-
B-31	6/11/2014	0.9	NA	1.9	0.31	0.001 U	0.001 U	0.0013	0.002 U	-
B-31	9/26/2014	1.5	NA	3.5	0.51	0.001 U	0.001 U	0.001 U	0.002 U	-
B-31	12/16/2014	0.39	NA	2.1	0.36	0.0010 U	0.0010 U	0.0024	0.0020 U	-
B-31	3/25/2015	0.81	NA	2.8	0.58	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
B-31	6/17/2015	0.58 J	NA	2.9	0.35	0.0020 U	0.0020 U	0.0031	0.0059	-
B-31	9/23/2015	1.5	NA	2.4	0.25 U	0.0020	0.0034	0.0043	0.0121	-
B-31	12/22/2015	0.43	NA	3.5	0.39 U	0.00065	0.0010 U	0.0073	0.0040 U	-
B-31	3/23/2016	0.694	NA	6.98	0.0019 U	0.00047 J	0.00035 J	0.0048	0.0020	-
B-31	6/22/2016	0.792 J	NA	1.20 J	0.0948 J	0.010 U	0.010 U	0.010 U	0.020 U	-
B-31	9/20/2016	1.53	NA	3.01	0.224 J	0.0022	0.0033	0.0067	0.0116	-
B-31	12/7/2016	0.086 J	NA	1.1	0.15 J	0.00034	0.0010 U	0.0010 U	0.0030 U	-
B-31	3/21/2017	0.240	NA	2.8	0.23 J	0.00019 J	0.0010 U	0.00069 J	0.0015 J	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-31	6/21/2017	0.470	NA	3.5	0.27 J	0.00026 J	0.0010 U	0.00068 J	0.00095 J	-
B-31	9/20/2017	0.530	NA	4.3	0.36 J	0.00038 J	0.00062 J	0.00079 J	0.0030	-
B-31	12/11/2017	0.110 J	NA	1.1	0.19 J	0.00016 J	0.00100 U	0.00026 J	0.0002 J	-
B-31	3/20/2018	0.380	NA	3	0.25 J	0.00020 J	0.00100 U	0.00035 J	0.0011 J	-
B-31	6/18/2018	0.670	NA	2.9	0.25 J	0.00073	0.00150	0.00520	0.0073	-
B-31	9/19/2018	1.100	NA	5.2	0.78	0.00110	0.00230	0.00400	0.0091	-
B-31	12/11/2018	0.890	NA	3.2	0.71	0.00092	0.00350	0.00660	0.0094	-
B-31	3/13/2019	0.070 U	NA	2	0.44	0.00009 U	0.00031 U	0.00020 U	0.0004 U	-
B-31	6/17/2019	0.500	NA	4.4	0.5	0.00068	0.00160	0.00300	0.0050	-
B-31	9/10/2019	0.820	NA	0.73	0.12 U	0.00340 J	0.00980	0.00950	0.0295	-
B-31	12/10/2019	2.20	NA	3.2	0.32 J	0.0018	0.0079	0.0200	0.0250	-
B-31	3/24/2020	0.390		4.0	0.29 J	0.00055	0.00086 J	0.0016	0.0039	-
B-31	6/23/2020	0.990	NA	2.9	0.27 J	0.0013	0.0039	0.0099	0.018	-
B-31	9/21/2020	1.50	NA	2.5	0.26 J	0.0014	0.0043	0.0055	0.0170	-
B-31	12/15/2020	1.00	NA	1.3	0.15 J	0.0009	0.0035	0.0130	0.0130	-
B-31	3/29/2021	0.34	NA	3.7	0.51 J	0.0001 U	0.0003 U	0.0004 J	0.0017 J	-
B-31	6/23/2021	1.30	NA	2.3	0.16 J	0.0010	0.0029	0.0048	0.0160	-
B-31	9/13/2021	1.40	NA	2.1	0.13 J	0.0016	0.0049	0.0061	0.0220	-
B-31	12/7/2021	0.28	NA	2.8	0.69	0.0001 U	0.0006 J	0.0023	0.0032	-
B-31	2/8/2022	0.72	NA	2.6	0.22 J	0.0003 J	0.0003 U	0.0007 J	0.0019 J	-
B-31	5/4/2022	0.36	NA	2.8	0.67	0.0001 U	0.0003 U	0.0002 U	0.0009 J	-
B-31	8/2/2022	1.20	NA	1.4	0.13 U	0.0009	0.0020	0.0028	0.0110	-
B-31	4/12/2023	0.09 J	NA	0.96	0.11 U	0.000093 U	0.0003 U	0.00037 J	0.00054 J	-
B-31	10/4/2023	1.30	NA	3.8	0.79 J	0.0014	0.0034	0.0080	0.0140	-
B-34	9/16/1993	NS	NS	NS	-	NS	NS	NS	NS	-
B-34	12/15/1993	3.10	NA	NA	-	9.40	0.0500 U	0.0160	0.100 U	-
B-34	2/1/1994	2.70	NA	NA	-	10.0	0.0500 U	0.260	0.100 U	-
B-34	6/21/1994	4.80	NA	NA	-	6.20	0.0360	0.290	0.0730	-
B-34	8/18/1994	5.10	NA	NA	-	4.90	0.0160	0.260	0.0280	-
B-34	12/7/1994	1.20	NA	NA	-	2.80	0.0500 U	0.0500 U	0.100 U	-
B-34	2/21/1995	0.530	NA	NA	-	0.140	0.0500 U	0.00350	0.00430	-
B-34	6/21/1995	3.10	NA	NA	-	7.40	0.0400 U	0.370	0.0400 U	-
B-34	9/18/1995	3.50	NA	NA	-	6.70	0.0200 U	0.200	0.0310	-
B-34	12/12/1995	3.00	NA	NA	-	4.60	0.0200 U	0.160	0.170	-
B-34	3/6/1996	6.60	NA	NA	-	5.50	0.0140	0.450	0.250	-
B-34	6/5/1996	3.57	NA	NA	-	3.85	0.0250 U	0.440	0.0535	-
B-34	8/21/1996	3.83	NA	NA	-	6.18	0.0183	0.376	0.0236	-
B-34	12/3/1996	2.50 U	NA	NA	-	3.70	0.0250 U	0.677	0.0500 U	-
B-34	2/20/1997	9.78	NA	NA	-	2.21	0.0100 U	0.548	0.519	-
B-34	5/28/1997	5.00 U	NA	NA	-	6.79	0.0500 U	0.380	0.100 U	-
B-34	8/11/1997	3.63	NA	NA	-	7.02	0.0180	0.350	0.0270	-
B-34	12/11/1997	3.06	14.0 U	NA	-	3.03	0.0250 U	0.0740	0.0500 U	-
B-34	3/4/1998	5.59	5.00 U	NA	-	2.44	0.0140	0.460	0.120	-
B-34	6/2/1998	5.00 U	5.00 U	NA	-	5.77	0.0500 U	0.149	0.100 U	-
B-34	9/4/1998	5.00 U	5.00 U	NA	-	4.09	0.0500 U	0.0500 U	0.100 U	-
B-34	12/3/1998	2.98	14.0 U	NA	-	3.12	0.0332	0.0934	0.0500 U	-
B-34	3/1/1999	4.25	5.00 U	NA	-	3.43	0.0250 U	0.544	0.0660	-
B-34	6/9/1999	2.80	4.00 U	NA	-	4.90	0.0180	0.120	0.0200 U	-
B-34	8/24/1999	2.50	4.00 U	NA	-	4.70	0.0240	0.0410	0.0140	-
B-34	11/18/1999	2.90	4.00 U	NA	-	4.60	0.0170	0.0720	0.0100	-
B-34	2/16/2000	2.30	5.50	NA	-	4.20	0.0150	0.120	0.0100 U	-
B-34	5/16/2000	2.20	2.80 U	NA	-	5.40	0.0190	0.0850	0.0110	-
B-34	8/23/2000	1.90	8.40 U	NA	-	5.30	0.0170	0.0320	0.0150 U	-
B-34	11/20/2000	15.0	5.00 U	NA	-	6.59	0.0100 U	0.100 U	0.200 U	-
B-34	2/15/2001	8.78	5.00 U	NA	-	3.23	0.0500 U	0.100	0.100 U	-
B-34	5/9/2001	10.5	5.00 U	NA	-	4.24	0.0500 U	0.0520	0.100 U	-
B-34	8/8/2001	10.1	5.00 U	NA	-	4.45	0.0170	0.0360	0.0200 U	-
B-34	11/5/2001	10.8	5.00 U	NA	-	4.92	0.0190	0.0550	0.0250 U	-
B-34	2/20/2002	11.0	5.00 U	NA	-	3.81	0.100 U	0.100 U	0.200 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-34	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-34	8/20/2002	NS	NS	NS	-	NS	NS	NS	NS	-
B-34	11/19/2002	6.06	5.00 U	NA	-	1.91	0.0125	0.0343	0.0250 U	-
B-34	1/29/2003	4.13	5.26 U	NA	-	0.813	0.0100	0.0735	0.0100 U	-
B-34	4/30/2003	3.67	4.72 U	NA	-	1.02	0.0129	0.0444	0.0100 U	-
B-34	8/26/2003	3.58	5.00 U	NA	-	1.48	0.00824	0.0100	0.00150 U	-
B-34	11/3/2003	3.87	4.72 U	NA	-	0.490	0.00896	0.0819	0.00748	-
B-34	1/27/2004	2.87	5.00 U	NA	-	0.309	0.00916	0.0619	0.0100 U	-
B-34	5/6/2004	2.77	5.00 U	NA	-	0.343	0.0129	0.0221	0.00600	-
B-34	8/11/2004	2.50	5.00 U	NA	-	0.250	0.00974	0.0318	0.00500 U	-
B-34	10/28/2004	3.96 J	5.00 U	NA	-	0.285 J	0.00918 J	0.0959 J	0.00706 J	-
B-34	2/8/2005	2.63 J	5.00 U	NA	-	0.215 J	0.0136 J	0.0196 J	0.00544 J	-
B-34	5/10/2005	3.73	5.00 U	NA	-	0.152	0.00934	0.0207	0.00500 U	-
B-34	8/4/2005	2.53	5.00 U	2.91	-	0.127	0.0112	0.0168	0.00500 U	-
B-34	11/8/2005	3.18	9.33	9.02	-	0.309	0.0110	0.0815	0.00999	-
B-34	2/8/2006	2.19	4.76 U	0.996	-	0.0574	0.00463	0.0962	0.00404	-
B-34	5/3/2006	3.35	4.72 U	1.31	-	0.104	0.00875	0.0255	0.00500 U	-
B-34	8/2/2006	2.75	5.00 U	1.69	-	0.156	0.0131	0.00546	0.00750 U	-
B-34	12/21/2006	2.40 J	4.76 U	1.44	0.472 U	0.0770 J	0.00496 J	0.0276 J	0.00404 J	-
B-34	2/8/2007	3.28 J	4.76 U	1.22	0.472 U	0.0816	0.00757	0.169	0.00888	-
B-34	5/9/2007	3.57 J	4.76 U	1.21	0.472 U	0.160	0.00667 J	0.192	0.00813 J	-
B-34	8/1/2007	3.50 J	4.95 U	2.49	0.490 U	0.0803 J	0.00648 J	0.0225 J	0.00400 J	-
B-34	11/6/2007	2.91	4.72 U	1.87	0.476 U	0.0593	0.00622	0.00744	0.00600	-
B-34	2/14/2008	2.58	4.72 U	1.01	0.472 U	0.0557	0.00480	0.0612	0.00582	-
B-34	5/5/2008	3.21	4.72 U	2.17	0.472 U	0.0545	0.00545	0.151	0.00907	-
B-34	8/14/2008	2.27	5.21 U	2.96	0.500 U	0.0430	0.00591	0.00708	0.00572	-
B-34	11/11/2008	3.49	4.81 U	2.06	0.476 U	0.0784	0.00714	0.00764	0.00696	-
B-34	2/24/2009	4.53 J	4.72 U	1.22	0.472 U	0.491 J	0.00644 J	0.0111 J	0.00616 J	-
B-34	5/11/2009	6.02	4.81 UJ	2.16	0.476 U	1.40	0.00793	0.0134	0.0100 U	-
B-34	8/12/2009	3.90	5.00 U	2.60	0.240 U	1.00	0.00580	0.0140	0.00200 U	-
B-34	11/11/2009	3.80	5.00 U	3.20	0.240 U	0.130	0.00680	0.0110	0.00100 U	-
B-34	03/23/2010	3.00	5.00 U	14.0	0.240 U	0.0630	0.00380	0.0100	0.00200 U	-
B-34	06/11/2010	2.90	5.10 U	4.30 Y,J	0.400	0.0340	0.00410	0.00440	0.00200 U	-
B-34	09/15/2010	2.70	5.00 U	6.10 Y	0.280	0.0390	0.00570	0.00330	0.00200 U	-
B-34	12/21/2010	1.50	5.10 U	2.00 J	1.40 J	0.590	0.00310	0.00270	0.00200 U	-
B-34	3/11/2011	2.00	5.30	4.30 J	0.240 U	0.490	0.00360	0.00510	0.00200 U	-
B-34	6/16/2011	1.70	5.30 U	3.00	0.310	0.720	0.00450	0.00640	0.00200 U	-
B-34	10/06/2011	2.82	5.30 U	2.02	0.495 U	0.497	0.00500 U	0.00630	0.0100 U	-
B-34	12/5/2011	2.20	5.00 U	4.80 J	0.590	0.0730 J	0.00550	0.00540	0.00200 U	-
B-34	4/3/2012	1.40	5.10 U	9.70	1.30	0.510 J	0.00400	0.00330	0.00200 U	-
B-34	6/14/2012	2.40	NA	5.60	0.330	0.600	0.00440	0.00370	0.00200 U	-
B-34	9/13/2012	2.30	NA	2.20	0.240 U	0.560 J	0.00590	0.00560	1.90 J	-
B-34	12/12/2012	0.440	NA	2.90	0.300	0.130	0.00110	0.00100 U	0.00200 U	-
B-34	3/14/2013	1.70	NA	9.10 J	1.40	0.560	0.00510	0.0100	0.00200 U	-
B-34	6/11/2013	2.60	NA	5.30	0.510 J	0.430	0.00490	0.00600	0.00200 U	-
B-34	9/26/2013	3.50	NA	3.50 J	0.240 U	0.390	0.0100 U	0.0100 U	0.0200 U	-
B-34	12/4/2013	3.3	NA	1.5	0.24 U	0.900	0.0067	0.0078	0.002 U	-
B-34	3/5/2014	0.68	NA	5.8	0.65	0.390 J	0.0036	0.003	0.002 U	-
B-34	6/9/2014	2.5 J	NA	7.7	0.61	1.100	0.0054	0.0071	0.002 U	-
B-34	9/23/2014	2.1 J	NA	6.7	0.36	0.900	0.0083	0.02 U	0.01 U	-
B-34	12/15/2014	0.55	NA	12	1.2	0.13	0.0010 U	0.0010 U	0.0020 U	-
B-34	3/25/2015	3.0	NA	10	1.3	0.84	0.0062	0.010	0.0030 U	-
B-34	6/16/2015	0.26	NA	8.9	1.1	0.83	0.080 U	0.12 U	0.12 U	-
B-34	9/24/2015	2.0 J	NA	10	0.60	- R	0.0043	0.0050	0.0030 U	-
B-34	12/21/2015	0.32	NA	16	0.78	0.0015	0.0010 U	0.0010 U	0.0030 U	-
B-34	3/23/2016	0.207	NA	3.55	0.96 U	0.00060 J	0.0010 U	0.0010 U	0.0020 U	-
B-34	6/22/2016	1.87 J	NA	4.04	0.259 J	0.213 J	0.0030 J	0.0058 J	0.020	-
B-34	9/22/2016	1.49	NA	12.2	1.06	0.168	0.0056	0.0059	0.0019 J	-
B-34	12/7/2016	0.870	NA	6.9	0.43	0.150	0.0016	0.0022	0.00064 J	-

Appendix A
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
B-34	3/21/2017	0.130 J	NA	10	0.73	0.00023 J	0.0010 U	0.0010 U	0.0030 U	-
B-34	6/22/2017	2.20	NA	12	0.62	0.410	0.0056	0.0098	0.0022 J	-
B-34	9/20/2017	2.10	NA	22	0.94	0.230	0.0060 J	0.0071 J	0.0048 J	-
B-34	12/11/2017	1.40	NA	12	0.67	0.260	0.0031	0.0033	0.0008 J	-
B-34	3/21/2018	2.20	NA	8.9	0.45	0.430	0.0058	0.0086	0.0015 J	-
B-34	6/19/2018	2.50	NA	10	0.51	0.350	0.0053	0.0090	0.0020 J	-
B-34	9/18/2018	2.00	NA	23	3.60	0.190	0.0057	0.0060	0.0018 J	-
B-34	12/10/2018	2.50	NA	21	3.50	0.088	0.0051	0.0046	0.0011 J	-
B-34	3/14/2019	1.30	NA	7.4	0.62	0.130	0.0031	0.0043	0.0012 J	-
B-34	6/18/2019	1.90 J	NA	24	3.00	0.190	0.0062 U	0.0100 J	0.0088 U	-
B-34	9/10/2019	1.70 J	NA	2.8	0.31 J	0.110	0.0028 J	0.0066 J	0.0061 U	-
B-34	12/11/2019	2.20	NA	15	0.90	0.054	0.0056	0.0070	0.0010 J	-
B-34	3/23/2020	1.90	NA	8.9	0.59	0.19	0.0052	0.0071	0.0017 J	-
B-34	6/24/2020	2.50 J	NA	14	1.6 J	0.13 J	0.0055 J	0.012	0.0044 UJ	-
B-34	9/22/2020	2.10	NA	13	0.82	0.10	0.0070	0.0087	0.0012 J	-
B-34	12/14/2020	2.30	NA	13	0.77	0.13	0.0040	0.0100	0.0014 J	-
B-34	3/30/2021	2.10	NA	6.2	0.58	0.13	0.0062	0.0036	0.0008 J	-
B-34	6/23/2021	2.80	NA	8.4	0.60	0.13	0.0063	0.0090	0.0012 J	-
B-34	9/14/2021	1.80	NA	11	0.75	0.083	0.0056	0.0039	0.0011 J	-
B-34	12/7/2021	0.91	NA	18	2.20	0.031	0.0007 J	0.0005 J	0.0004 U	-
B-34	2/9/2022	0.70	NA	7.7	0.75	0.023	0.0014	0.0008 J	0.0004 U	-
B-34	5/4/2022	3.20	NA	17	2.1	0.11	0.0055	0.0049	0.0013 J	-
B-34	8/3/2022	2.60 J	NA	10	0.73	0.069 J	0.0051 J	0.0065 J	0.0012 J	-
B-34	4/12/2023	1.70	NA	3.7	0.24 J	0.017	0.0020	0.00093 J	0.00098 J	-
B-34	10/3/2023	2.30 J	NA	4.7	0.37 J	0.022	0.0031 U	0.0020 U	0.0044 U	-
E-20	11/13/2008	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
E-20	2/24/2009	0.0500 U	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
E-20	5/12/2009	0.0689	NA	0.236 U	0.472 U	0.000500	0.000500 U	0.000500 U	0.00100 U	-
E-20	8/11/2009	0.0860	NA	0.410	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-20	11/10/2009	0.170	NA	0.920	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
E-20	03/30/2010	0.0940	NA	4.40	0.820	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-20	06/15/2010	0.100	NA	4.70 Y	1.10	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	2/26/2008	2.56 J	NA	5.31	0.472 U	0.0128	0.00118	0.0766	0.0280	-
E-21	5/5/2008	1.39	NA	0.846	0.476 U	0.00211	0.000500 U	0.0432	0.0173	-
E-21	8/14/2008	1.20	NA	1.20	0.472 U	0.0138	0.000500 U	0.0448	0.0190	-
E-21	11/12/2008	0.944	NA	0.444	0.485 U	0.000500 U	0.000500 U	0.0150	0.00581	-
E-21	2/23/2009	0.538	NA	0.240 U	0.481 U	0.00231	0.000500 U	0.00422	0.00266	-
E-21	5/12/2009	0.824	NA	1.99	0.476 U	0.00170	0.000500 U	0.0101 U	0.00410 U	-
E-21	8/11/2009	1.20	NA	3.10	0.240 U	0.0120	0.00100 U	0.0180	0.00770	-
E-21	11/10/2009	0.600	NA	8.70	0.600	0.00310	0.00100 U	0.00510	0.00100 U	-
E-21	03/30/2010	0.0500 U	NA	0.870	0.680	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	06/15/2010	0.550	NA	16.0 Y	2.20	0.00530	0.00100 U	0.00180	0.00200 U	-
E-21	09/16/2010	1.40	6.10	24.0 Y	1.90	0.0130	0.00100 U	0.0140	0.00560	-
E-21	12/16/2010	0.0500 U	5.20 U	2.00	2.00	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	3/10/2011	0.0500 U	5.00 U	0.810	0.600	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	6/15/2011	0.160	8.60	4.80	2.80	0.00160	0.00100 U	0.00110	0.00200 U	-
E-21	09/29/2011	0.160 UJ	5.10 UJ	4.50 J	1.80 J	0.000620 J	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
E-21	12/7/2011	0.200	4.90 U	3.80	0.960	0.00210	0.00100 U	0.00100	0.00200 U	-
E-21	4/4/2012	0.0500 U	5.20 U	3.00	3.00	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	6/14/2012	0.530	NA	4.30 J	0.420	0.00100 U	0.00100 U	0.00260	0.00200 U	-
E-21	9/13/2012	0.0500 U	NA	0.590	0.240 U	0.00140	0.00100 U	0.00120	0.000150 J	-
E-21	12/10/2012	0.0500 U	NA	0.810	0.250	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	3/13/2013	0.170	NA	21.0	5.40	0.00190	0.00100 U	0.00140	0.00200 U	-
E-21	6/10/2013	0.230	NA	3.10	1.20	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-21	9/27/2013	0.250 U	NA	1.00	0.240	0.00130	0.00250 U	0.00250 U	0.00500 U	-
E-21	12/5/2013	0.21	NA	0.61	0.27	0.0044	0.001 U	0.001 U	0.002 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
E-21	3/5/2014	0.05 U	NA	0.58	0.38	0.001 U	0.001 U	0.001 U	0.002 U	-
E-21	6/11/2014	0.18	NA	11	1.7	0.001 U	0.001 U	0.001 U	0.002 U	-
E-21	9/26/2014	0.33	NA	8.8	3.5	0.012	0.001 U	0.0034	0.002 U	-
E-21	12/16/2014	0.050 U	NA	1.3	1.5	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
E-21	3/25/2015	0.050 U	NA	1.4	1.2	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
E-21	6/17/2015	0.052	NA	2.3	0.70	0.0020 UJ	0.0020 UJ	0.0030 UJ	0.0030 UJ	-
E-21	9/24/2015	0.59	NA	3.3	0.25 U	0.0083 J	0.0020 U	0.0030 U	0.0030 U	-
E-21	12/22/2015	0.45	NA	1.3	0.74	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
E-21	3/23/2016	0.100 U	NA	0.309	0.170 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
E-21	6/22/2016	0.100 U	NA	1.27	0.201 J	0.010 U	0.010 U	0.010 U	0.020 U	-
E-21	9/20/2016	0.321	NA	8.77	0.686 J	0.0087	0.00083 J	0.00041 J	0.0013 J	-
E-21	12/7/2016	0.100 U	NA	1.6	0.66	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
E-21	3/22/2017	0.150 U	NA	0.69	0.43	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
E-21	6/21/2017	0.150 U	NA	2.5	0.57	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
E-21	9/19/2017	0.260	NA	14	1.0	0.0018	0.00033 J	0.00046 J	0.0016 J	-
E-21	3/19/2018	0.150 U	NA	2.1	0.6	0.0004 U	0.00100 U	0.00100 U	0.0030 U	-
E-21	9/17/2018	0.210	NA	17	4.7	0.0024	0.00036 J	0.00021 J	0.0015 J	-
E-21	3/13/2019	0.070 U	NA	2.5	2.0	0.000093 U	0.00031 U	0.00020 U	0.0004 U	-
E-21	9/10/2019	0.260	NA	1.8	0.2 J	0.00054 J	0.00013 U	0.00014 U	0.0003 U	-
E-21	3/23/2020	0.070 U	NA	4.8 J	0.96 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
E-21	9/21/2020	0.070 U	NA	4.3	0.78	0.0011	0.00031 U	0.00020 U	0.00044 U	-
E-21	3/29/2021	0.070 U	NA	2.7	0.88	0.0001 U	0.00031 U	0.00020 U	0.00044 U	-
E-21	9/13/2021	0.100 J	NA	5.5	0.82	0.0022	0.00031 J	0.00020 U	0.00078 J	-
E-21	8/2/2022	0.230	NA	5.9	0.77	0.0011	0.00036 J	0.00020 U	0.00073 J	-
E-21	10/3/2023	1.500 U	NA	7	0.99	0.0009 U	0.00310 U	0.00200 U	0.00440 U	-
E-22	4/2/2012	0.410	5.40 U	1.20	0.350	0.00150	0.00100 U	0.00100 U	0.00200 U	-
E-22	9/11/2012	0.200	NA	0.500	0.0670 J	0.000880 J	0.000210 J	0.000350 J	0.00200 U	-
E-22	12/11/2012	0.190	NA	0.360	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
E-22	3/13/2013	0.180	NA	0.460	0.240 U	0.00100	0.00100 U	0.00290	0.00200 U	-
E-22	6/10/2013	0.220	NA	0.310	0.0490 U	0.00170	0.00100 U	0.00740	0.00200 U	-
E-22	9/24/2013	0.250	NA	0.280	0.240 U	0.00100 U	0.00100 U	0.00220	0.00200 U	-
E-22	12/2/2013	0.11	NA	0.12 U	0.24 U	0.0014	0.001 U	0.001 U	0.002 U	-
E-22	3/4/2014	0.081	NA	0.36	0.24 U	0.0017	0.001 U	0.001 U	0.002 U	-
E-22	6/10/2014	0.32	NA	0.68	0.25 U	0.0024	0.001 U	0.01	0.002 U	-
E-22	9/22/2014	0.44	NA	0.77	0.24 U	0.001 U	0.001 U	0.0056	0.002 U	-
E-22	12/17/2014	0.17	NA	1.2	0.24	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
E-22	3/25/2015	0.15	NA	2.8	0.56	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
E-22	6/16/2015	0.21	NA	0.68	0.25 U	0.0020 U	0.0020 U	0.0051	0.0030 U	-
E-22	9/22/2015	0.14	NA	0.43	0.25 U	- R	- R	- R	- R	-
E-22	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
E-22	12/21/2015	0.10 U	NA	1.6	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
E-22	3/23/2016	0.0714 J	NA	0.793	0.106 J	0.00025 J	0.0010 U	0.00069 J	0.0020 U	-
E-22	6/21/2016	0.260	NA	0.637	0.0885 U	0.0012	0.00021 J	0.0075	0.00052 J	-
E-22	9/21/2016	0.386	NA	0.753	0.0644 J	0.0015	0.00030 J	0.0039	0.00058 J	-
E-22	12/6/2016	0.200	NA	2.6	0.25	0.0019	0.0010 U	0.0028	0.0030 U	-
E-22	3/20/2017	0.150 U	NA	1.4	0.25 J	0.00026 J	0.0010 U	0.0010 U	0.0030 U	-
E-22	6/20/2017	0.170	NA	1.6 J	0.18 J	0.00072	0.00058 J	0.0033	0.0030 U	-
E-22	9/25/2017	0.440	NA	1.0	0.25 J	0.00033 J	0.0010 U	0.00051 J	0.0030 U	-
E-22	12/10/2019	0.070 U	NA	0.63	0.13 J	0.00042	0.00031 U	0.00020 U	0.00044 U	-
E-22	3/23/2020	0.140 J	NA	1.2	0.14 J	0.00054	0.00031 U	0.00020 U	0.00044 U	-
E-22	6/23/2020	0.100 J	NA	0.66	0.76	0.00088	0.00031 U	0.0012	0.00060 J	-
E-22	9/22/2020	0.070 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
E-22	12/15/2020	0.110 J	NA	0.28	0.12 U	0.000250 J	0.00031 U	0.02500	0.00044 U	-
E-22	3/29/2021	1.300	NA	0.56	0.41 U	0.002600	0.00170	0.22000	0.03200	-
E-22	6/22/2021	0.360	NA	0.35	0.12 U	0.001400	0.00110	0.07600	0.01100	-
E-22	9/13/2021	1.300	NA	0.32	0.12 U	0.001700	0.00031 U	0.00082 J	0.00046 J	-
E-22	12/6/2021	0.070 U	NA	3.40	0.88	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
E-22	2/8/2022	0.070 U	NA	0.40	0.13 U	0.000210 J	0.00031 U	0.00020 U	0.00044 U	-

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E-22	5/3/2022	0.300	NA	0.55	0.29 J	0.002100	0.00033 J	0.00220	0.00044 U	-
E-22	8/1/2022	0.290	NA	0.35	0.13 U	0.002200	0.00031 U	0.00110	0.00044 U	-
E-22	4/11/2023	0.038 J	NA	0.37	0.12 U	0.001400	0.00031 U	0.00020 U	0.00044 U	-
E-22	10/4/2023	0.150 U	NA	0.41	0.46 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
FW-3	9/16/1993	5.30	NA	NA	-	1.10	0.0670	0.210	0.600	-
FW-3	12/15/1993	1.50	NA	NA	-	0.000800	0.00180	0.0160	0.0390	-
FW-3	2/1/1994	5.50	NA	NA	-	0.100	0.0260	0.130	0.430	-
FW-3	6/21/1994	5.10	NA	NA	-	0.210	0.0320	0.190	0.600	-
FW-3	8/18/1994	4.30	NA	NA	-	0.0860	0.0160	0.140	0.360	-
FW-3	12/7/1994	NS	NS	NS	-	NS	NS	NS	NS	-
FW-3	2/21/1995	0.280	NA	NA	-	0.00340	0.000820	0.00990	0.00250	-
FW-3	6/21/1995	1.50	NA	NA	-	0.0900	0.00630	0.0630	0.150	-
FW-3	9/18/1995	1.40	NA	NA	-	0.0270	0.00600	0.0330	0.100	-
FW-3	12/12/1995	0.500	NA	NA	-	0.00140	0.000720	0.00440	0.0120	-
FW-3	3/6/1996	1.40	NA	NA	-	0.0180	0.00400 U	0.0210	0.0600	-
FW-3	6/4/1996	5.50	NA	NA	-	0.0503	0.0108	0.102	0.289	-
FW-3	8/22/1996	1.75	NA	NA	-	0.0216	0.00500 U	0.0226	0.0397	-
FW-3	12/20/1996	0.657	NA	NA	-	0.00358	0.00134	0.00767	0.0441	-
FW-3	2/24/1997	2.79	NA	NA	-	0.0278	0.00560	0.0542	0.148	-
FW-3	5/28/1997	0.846	NA	NA	-	0.00300	0.00200	0.0269	0.0940	-
FW-3	8/8/1997	1.18	NA	NA	-	0.0120	0.00800	0.0330	0.0540	-
FW-3	12/10/1997	0.330	14.0 U	NA	-	0.000900	0.000600	0.00200	0.00600	-
FW-3	3/3/1998	0.110	5.00 U	NA	-	0.00100	0.000500 U	0.00100	0.00200	-
FW-3	6/3/1998	1.42	9.14	NA	-	0.0135	0.00674	0.0200	0.0226	-
FW-3	8/24/1998	0.980	6.20	NA	-	0.0110	0.00900	0.0180	0.00500	-
FW-3	12/2/1998	0.0500 U	14.0 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	3/1/1999	0.260	21.0	NA	-	0.00100	0.000500 U	0.00300	0.00300	-
FW-3	6/10/1999	1.90	5.60	NA	-	0.0140	0.0160	0.0390	0.0290	-
FW-3	8/24/1999	0.540	4.00 U	NA	-	0.00100 U	0.00400	0.00500	0.00500	-
FW-3	11/18/1999	0.0670	4.00 U	NA	-	0.000900	0.00300	0.000600	0.00200	-
FW-3	2/16/2000	0.190	3.80	NA	-	0.00100 U	0.00100	0.00160	0.00130	-
FW-3	5/16/2000	0.490	6.50	NA	-	0.00200 U	0.00210	0.00300	0.00150	-
FW-3	8/23/2000	0.530	8.40 U	NA	-	0.00100 U	0.00710	0.00360	0.00300 U	-
FW-3	11/22/2000	0.240	5.00 U	NA	-	0.000800 U	0.00100	0.00100	0.00100	-
FW-3	2/14/2001	0.190	5.00 U	NA	-	0.000500 U	0.000500 U	0.00100	0.000100 U	-
FW-3	5/9/2001	0.360	5.00 U	NA	-	0.00140	0.000790	0.00170	0.00160	-
FW-3	8/8/2001	0.220	5.00 U	NA	-	0.000500 U	0.000500 U	0.000790	0.00100 U	-
FW-3	11/6/2001	0.250	5.00 U	NA	-	0.00200	0.000900	0.000700	0.00100 U	-
FW-3	2/20/2002	0.120	5.00 U	NA	-	0.000700	0.000700	0.000500 U	0.00100 U	-
FW-3	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
FW-3	8/20/2002	0.280 J	5.00 U	NA	-	0.00109 J	0.00102 J	0.000950 J	0.00176 J	-
FW-3	11/19/2002	0.323	5.00 U	NA	-	0.00105	0.000628	0.00105	0.00100 U	-
FW-3	1/28/2003	0.0500 U	4.90 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	4/29/2003	0.192 J	4.81 U	NA	-	0.000815 J	0.000500 U	0.000656 J	0.00100 U	-
FW-3	8/26/2003	0.240	5.21 U	NA	-	0.00137	0.00200 U	0.00100 U	0.00150 U	-
FW-3	11/3/2003	0.322	4.72 U	NA	-	0.000781	0.000500 U	0.00100	0.00115	-
FW-3	1/27/2004	0.0982	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	5/5/2004	0.590	5.00 U	NA	-	0.00175	0.000857	0.00116	0.00108	-
FW-3	8/11/2004	0.271	5.00 U	NA	-	0.000693	0.000500 U	0.000830	0.00104	-
FW-3	10/28/2004	0.0735	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	2/8/2005	0.0904	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	5/10/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-3	8/3/2005	0.293 J	5.00 U	0.425	-	0.000809 J	0.000767 J	0.000596 J	-0.99900 UJ	-
FW-3	11/10/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-3	2/7/2006	0.0500 U	4.85 U	0.459	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-3	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-3	8/3/2006	0.203	5.10 U	-	-	0.000735	0.000500 U	0.000500 U	-0.99900 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
FW-3	12/19/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-3	2/7/2007	0.280	4.81 U	0.243 U	0.485 U	0.000912	0.00120	0.00138	0.00100 U	-
FW-3	5/8/2007	0.0456	4.81 U	0.317	0.476 U	0.000690	0.00140	0.00114	0.00182	-
FW-3	7/31/2007	0.358	4.85 U	0.743	0.532 U	0.00103	0.00125	0.000500 U	0.00137	-
FW-3	11/7/2007	0.388	4.76 U	0.254	0.490 U	0.00161	0.000714	0.00104	0.00184	-
FW-3	2/13/2008	0.187	4.72 U	0.236 U	0.472 U	0.000635	0.000500 U	0.000500 U	0.00100 U	-
FW-3	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-3	8/14/2008	0.275	5.21 U	0.236 U	0.472 U	0.000864	0.000783	0.000500 U	0.00107	-
FW-3	11/13/2008	0.0776	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	2/25/2009	0.135	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-3	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-3	8/11/2009	0.280	5.00 U	0.360	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	11/13/2009	0.0960	5.00 U	0.200	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
FW-3	03/23/2010	0.120	5.00 U	0.430	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	06/08/2010	0.370	6.00	2.60 Y	0.440	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	09/14/2010	0.120	5.00 U	0.330 Y	1.00	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	09/27/2011	0.0550	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	9/10/2012	0.180	NA	0.310	0.740	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	9/25/2013	0.410	NA	0.20	0.24 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-3	9/24/2014	0.05 U	NA	0.26	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-3	9/22/2015	0.15	NA	0.31	0.25 U	- R	- R	- R	- R	-
FW-3	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	-0.9970 U	-
FW-3	9/21/2016	0.10 U	NA	0.134	0.0338 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
FW-3	9/18/2017	0.110 J	NA	0.26	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
FW-3	9/19/2018	0.100 J	NA	0.55	0.45 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
FW-3	9/9/2019	0.120	NA	0.27 J	0.11 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
FW-3	9/22/2020	0.070 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
FW-3	9/14/2021	0.070 U	NA	0.18 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
FW-3	8/2/2022	0.031 U	NA	0.16 J	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
FW-3	10/4/2023	0.150 U	NA	0.23 J	0.46 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
FW-4	8/24/1992	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	3/23/1993	2.60	NA	NA	-	0.480	0.130	U	-0.9840	-
FW-4	6/13/1993	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	9/16/1993	1.20	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	12/15/1993	0.920	NA	NA	-	NA	0.00130	0.000500 U	0.00100 U	-
FW-4	2/1/1994	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	6/21/1994	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	8/18/1994	2.40	NA	NA	-	0.220	0.00330	0.000500 U	-0.99900 U	-
FW-4	12/7/1994	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	2/21/1995	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	6/21/1995	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	9/18/1995	0.710	NA	NA	-	0.110	0.00150	0.0100	0.00340	-
FW-4	12/12/1995	0.560	NA	NA	-	0.00210	0.000500 U	0.000500 U	0.00100 U	-
FW-4	3/6/1996	3.30	NA	NA	-	0.00800 U	0.00800 U	0.00800 U	0.00800 U	-
FW-4	6/4/1996	1.71	NA	NA	-	0.0172	0.000500 U	0.000500 U	0.00150 U	-
FW-4	8/22/1996	1.29	NA	NA	-	0.0553	0.00300 U	0.00300 U	0.00500 U	-
FW-4	12/20/1996	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	2/24/1997	0.737	NA	NA	-	0.00710	0.00100 U	0.00100 U	0.00200 U	-
FW-4	5/28/1997	0.258	NA	NA	-	0.0290	0.000600	0.000500 U	0.00130	-
FW-4	8/8/1997	0.540	NA	NA	-	0.0150	0.000600	0.000900	0.00200	-
FW-4	12/10/1997	0.290	15.2	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-
FW-4	3/3/1998	0.210	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00130 U	-
FW-4	6/3/1998	0.440	12.1	NA	-	0.00300 U	0.00300 U	0.00300 U	0.00500 U	-
FW-4	8/24/1998	0.680	5.00 U	NA	-	0.00300 U	0.00300 U	0.00300 U	0.00500 U	-
FW-4	12/2/1998	0.144	14.0 U	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-4	3/1/1999	0.370	9.20	NA	-	0.000900	0.000500 U	0.000500 U	0.00100	-
FW-4	6/10/1999	0.300	5.60	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-
FW-4	8/24/1999	0.220	4.00 U	NA	-	0.000400	0.000300	0.000300	0.000600 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
FW-4	11/18/1999	0.230	4.00 U	NA	-	0.00100	0.00200	0.000300	0.00200	-
FW-4	2/16/2000	0.160	12.5	NA	-	0.000600	0.000300	0.000200 U	0.000600 U	-
FW-4	5/16/2000	0.120	2.80 U	NA	-	0.000300	0.000500	0.000200 U	0.000700	-
FW-4	8/23/2000	0.250 U	8.40 U	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-
FW-4	11/22/2000	0.0590	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	2/14/2001	0.0540	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	5/9/2001	0.150	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	8/8/2001	0.0820	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	11/6/2001	0.110	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	2/20/2002	0.130	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	8/20/2002	0.0738	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	11/19/2002	0.117	4.70 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	1/28/2003	0.124	5.05 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	4/29/2003	0.0528	4.85 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	8/26/2003	0.100 U	4.76 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
FW-4	11/3/2003	0.0825	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	1/27/2004	0.0861	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	5/6/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	8/11/2004	0.0500	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	10/28/2004	0.0608	5.00 U	NA	-	0.000500 U	0.000661	0.00101	0.00122	-
FW-4	2/8/2005	0.0556	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-4	5/10/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	8/3/2005	0.0500 U	5.00 U	0.876	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	11/10/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	2/7/2006	0.0500 U	5.05 U	0.257	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	8/3/2006	0.0500 U	5.00 U	0.300	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	12/19/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-4	2/7/2007	0.0500 U	4.85 U	0.776	0.490 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	5/8/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-4	7/31/2007	0.0500 U	4.85 U	0.914	0.495 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-4	2/13/2008	0.0500 U	4.76 U	0.271	0.476 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-4	8/13/2008	0.0500 U	5.21 U	0.526	0.472 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	11/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-4	2/27/2009	0.0500 U	5.00 U	0.883	0.500 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-4	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-4	8/11/2009	0.130	5.00 U	1.60	0.240 U	0.0170	0.00100 U	0.00100 U	0.00200 U	-
FW-4	03/23/2010	0.0500 U	5.00 U	0.660	0.310	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-4	09/14/2010	0.0770	5.50 U	3.40 Y	0.620	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-4	09/29/2011	0.160 UJ	4.80 UJ	0.770 J	0.250 UJ	0.000400 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
FW-4	9/10/2012	0.0480 J	NA	0.230	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-4	9/25/2013	0.0550	NA	0.240	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-4	9/24/2014	0.05 U	NA	0.84	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-4	9/22/2015	0.050 U	NA	0.43	0.25 U	- R	- R	- R	- R	-
FW-4	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-4	9/21/2016	0.10 U	NA	0.648	0.146	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.00095 U
FW-4	9/20/2017	0.150 U	NA	0.79	0.18 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000048 J
FW-4	9/19/2018	0.150 U	NA	0.75	0.2 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.001 U
FW-4	9/9/2019	0.048 U	NA	0.36 J	0.11 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	0.000051 U
FW-4	9/22/2020	0.070 U	NA	0.46	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 U
FW-4	9/14/2021	0.070 U	NA	0.41	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000062 U
FW-4	8/3/2022	0.036 J	NA	0.69	0.22 J	0.000093 UJ	0.00031 UJ	0.00020 UJ	0.00044 UJ	0.000055 U
FW-4	10/4/2023	0.150 U	NA	0.54	0.44 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000051 U
FW-5R	09/27/2011	0.160	5.30 U	4.30	0.250 U	0.00310	0.00100 U	0.00100 U	0.00200 U	-
FW-5R	12/8/2011	1.50	5.30 U	3.70	0.260 U	0.0210	0.00100 U	0.00120	0.00200 U	-

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FW-5R	4/4/2012	1.20	5.30 U	6.30	1.30	0.0150	0.00100 U	0.00100 U	0.00200 U	-
FW-5R	6/13/2012	1.20 J	NA	6.80 J	0.600 J	0.0160 J	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
FW-5R	9/11/2012	1.50	NA	3.10	0.0900 J	0.0210	0.000550 J	0.00110	0.00200 U	-
FW-5R	12/13/2012	1.10	NA	3.80	0.240 U	0.0120	0.00100 U	0.00100 U	0.00200 U	-
FW-5R	3/12/2013	0.970	NA	4.40	0.260 U	0.0160	0.00100 U	0.00100 U	0.00200 U	-
FW-5R	6/12/2013	2.40	NA	5.60	0.140	0.0140	0.00100 U	0.00110	0.00200 U	-
FW-5R	9/25/2013	3.10	NA	4.60	0.240 U	0.00950	0.00100 U	0.00100 U	0.00200 U	-
FW-5R	12/4/2013	2.6	NA	3.1	0.24	0.01	0.001 U	0.001	0.002 U	-
FW-5R	3/6/2014	3.7	NA	2.8	0.24 U	0.0071	0.005 U	0.005 U	0.005 U	-
FW-5R	6/9/2014	2.7	NA	5.4	0.43	0.012	0.001 U	0.001 U	0.002 U	-
FW-5R	9/24/2014	1.1	NA	5.9	0.76	0.0064	0.001 U	0.001 U	0.002 U	-
FW-5R	12/15/2014	1.2	NA	3.3	0.38	0.0028	0.0010 U	0.0010 U	0.0020 U	-
FW-5R	3/24/2015	3.2	NA	4.6	0.67	0.0053	0.0020 U	0.0030 U	0.0030 U	-
FW-5R	6/15/2015	3.4 J	NA	3.5	0.43	0.0060 J	0.0020 UJ	0.0030 UJ	0.0030 UJ	-
FW-5R	9/22/2015	1.6	NA	3.5 J	0.26	- R	- R	- R	- R	-
FW-5R	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-5R	12/22/2015	0.54	NA	3.0	0.39 U	0.0027	0.0010 U	0.0010 U	0.0030 U	-
FW-5R	3/21/2016	0.467	NA	4.61	0.95 U	0.0090	0.00032 J	0.00037 J	0.0020 U	-
FW-5R	6/22/2016	0.587 J	NA	3.55	0.173 J	0.0089 J	0.010 U	0.010 U	0.020 U	0.0011
FW-5R	9/21/2016	0.629	NA	4.23	0.194 J	0.0027	0.00041 J	0.00060 J	0.0030 U	0.00054 J
FW-5R	12/8/2016	0.720	NA	5.1 B	0.34 B	0.0047	0.00042 J	0.00058 J	0.0030 U	0.0012 J
FW-5R	3/21/2017	0.750	NA	5.5	0.36 J	0.0053	0.00048 J	0.00069 J	0.0030 U	0.0016
FW-5R	6/22/2017	0.800	NA	6.0	0.40 J	0.0043	0.00051 J	0.00056 J	0.0030 U	0.0020 U
FW-5R	9/18/2017	1.0	NA	4.3	0.19 J	0.0015	0.00050 J	0.00063 J	0.00053 J	0.0018
FW-5R	12/12/2017	0.7	NA	5.2	0.33 J	0.0018	0.00034 J	0.00036 J	0.00300 U	0.0015
FW-5R	3/19/2018	1.0	NA	5.5	0.34 J	0.0023	0.00045 J	0.00046 J	0.00300 U	0.0013 J
FW-5R	6/18/2018	0.6	NA	4.4	0.28 J	0.0012	0.00038 J	0.00042 J	0.00300 U	0.0011
FW-5R	9/19/2018	0.7	NA	5	0.52	0.00077	0.00034 J	0.00033 J	0.00300 U	0.0010
FW-5R	12/11/2018	0.6	NA	7	1.1	0.00081	0.00040 J	0.00052 J	0.00044 U	0.0010
FW-5R	3/12/2019	0.8	NA	6.3	0.99	0.00069	0.00049 J	0.00034 J	0.00044 U	0.0019 H
FW-5R	6/18/2019	0.8	NA	7	0.95	0.00081	0.00050 J	0.00040 J	0.00044 U	0.0023
FW-5R	9/9/2019	0.6	NA	4.3	0.24 J	0.00045 J	0.00035 J	0.00029 J	0.00031 U	0.0050 U
FW-5R	12/10/2019	0.8	NA	4.9	0.39 J	0.00067	0.00038 U	0.00033 J	0.00044 U	0.0012
FW-5R	3/24/2020	0.8	NA	4.9	0.27 J	0.00052	0.00041 J	0.00032 J	0.00044 U	0.0012
FW-5R	6/24/2020	1.1 J	NA	3.8	0.15 U	0.00056	0.00031 U	0.00041 J	0.00044 U	0.0012
FW-5R	9/21/2020	1.0	NA	4.7	0.27 J	0.00084	0.00042 J	0.00037 J	0.00044 U	0.0016
FW-5R	12/14/2020	1.0	NA	4.8	0.3 J	0.00052	0.00042 J	0.00034 J	0.00044 U	0.0019
FW-5R	3/30/2021	0.6	NA	3.5	0.3 J	0.00009 U	0.00034 J	0.00020 U	0.00044 U	0.0021
FW-5R	6/23/2021	0.6	NA	3.2	0.13 U	0.00038 J	0.00031 U	0.00020 J	0.00044 U	0.0015
FW-5R	9/14/2021	0.6	NA	3.6	0.14 U	0.00049	0.00033 J	0.00020 J	0.00044 U	0.0015
FW-5R	12/7/2021	0.9	NA	6	0.77	0.00051	0.00040 J	0.00029 J	0.00044 U	0.0001 U
FW-5R	2/9/2022	1.6	NA	3.1	0.22 J	0.00011 J	0.00031 U	0.00099 J	0.00044 U	0.0017 J
FW-5R	5/4/2022	1.1	NA	5.1	0.67	0.00040	0.00037 J	0.00020 U	0.00044 U	0.0013
FW-5R	8/3/2022	0.9 J	NA	4.6	0.27 J	0.00047 J	0.00033 J	0.00027 J	0.00044 UJ	0.0020
FW-5R	4/12/2023	0.60	NA	3.2	0.14 U	0.00044	0.00035 J	0.00026 J	0.00044 U	0.0012
FW-5R	10/4/2023	0.15 U	NA	5.7	0.82 J	0.000093 U	0.00038 J	0.00033 J	0.00044 U	0.0016
FW-14	6/13/2011	0.0500 U	4.80 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	09/30/2011	0.0800 U	5.00 U	0.100 U	0.500 U	0.000400 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	12/6/2011	0.0500 U	4.90 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	4/3/2012	0.0500 U	4.90 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	6/13/2012	0.0500 UJ	NA	0.120 UJ	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
FW-14	9/10/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	12/11/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	3/12/2013	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	6/12/2013	0.0500 U	NA	0.0410	0.0520	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	9/25/2013	0.0580	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-14	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
FW-14	3/6/2014	0.05 U	NA	0.12 U	0.24 U	0.005 U	0.005 U	0.005 U	0.005 U	-
FW-14	6/9/2014	0.26	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-14	9/23/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-14	12/15/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
FW-14	3/25/2015	0.097	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-14	6/15/2014	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-14	9/23/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-14	12/22/2015	0.10 U	NA	0.24 U	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
FW-14	3/23/2016	0.100 U	NA	0.094 U	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
FW-14	6/22/2016	0.100 U	NA	0.062 J	0.0942 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	0.000015 U
FW-14	9/20/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.00095 U
FW-14	12/8/2016	0.100 U	NA	0.060 J B	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U
FW-14	3/21/2017	0.150 U	NA	0.10 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000084 U
FW-14	6/21/2017	0.150 U	NA	0.32 U	0.54 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U
FW-14	9/19/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000082 U
FW-14	12/12/2017	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000098 U
FW-14	3/20/2018	0.150 U	NA	0.23 U	0.38 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000038 U J
FW-14	6/19/2018	0.150 U	NA	0.26 U	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000093 U
FW-14	9/18/2018	0.150 U	NA	0.12 J	0.14 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000099 U
FW-14	12/11/2018	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000054 U
FW-14	3/13/2019	0.070 U	NA	0.11 J	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000050 U
FW-14	6/18/2019	0.070 U	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000050 U
FW-14	9/11/2019	0.048 U	NA	0.23 U	0.11 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	0.000050 U
FW-14	12/10/2019	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0002 U	0.000054 U
FW-14	3/24/2020	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000054 U
FW-14	6/24/2020	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000058 U
FW-14	9/23/2020	0.070 U	NA	0.13 U	0.14 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000076 J
FW-14	12/14/2020	0.070 U	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000049 U
FW-14	3/30/2021	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000057 U
FW-14	6/22/2021	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000064 U
FW-14	9/14/2021	0.070 U	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000062 U
FW-14	12/6/2021	0.070 U	NA	0.11 U	0.13 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000060 U
FW-14	2/8/2022	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000053 U
FW-14	5/3/2022	0.031 U	NA	0.11 U	0.12 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000061 J
FW-14	8/2/2022	0.031 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000052 U
FW-14	4/11/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000050 U
FW-14	10/3/2023	0.150 U	NA	0.15 J	0.12 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000051 U
FW-16	9/16/1993	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	12/15/1993	ND	NA	NA	NA	ND	ND	ND	ND	-
FW-16	2/1/1994	ND	NA	NA	NA	ND	ND	ND	ND	-
FW-16	6/21/1994	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	8/18/1994	0.150	NA	NA	NA	0.000670	ND	0.00120	-0.99600	-
FW-16	12/7/1994	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	2/21/1995	0.600	NA	NA	NA	0.00330	ND	0.00710	-0.99730	-
FW-16	6/21/1995	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	9/18/1995	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	12/12/1995	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	2/10/2005	0.0500 U	NA	NA	NA	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-16	5/9/2005	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	8/1/2005	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	11/8/2005	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-16	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
G-1	8/24/1992	140	NA	NA	-	13.0	20.0	4.30	19.0	-
G-1	3/23/1992	NS	NS	NS	-	NS	NS	NS	NS	-
G-1	6/13/1993	93.0	NA	NA	-	0.990	1.30	2.20	15.0	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
G-1	9/16/1993	120	NA	NA	-	4.70	5.30	2.70	16.0	-
G-1	12/15/1993	79.0	NA	NA	-	3.10	3.20	2.50	14.0	-
G-1	2/1/1994	91.0	NA	NA	-	0.830	0.0250 U	1.30	7.40	-
G-1	6/21/1994	46.0	NA	NA	-	0.260	0.0250	0.550	2.80	-
G-1	8/18/1994	NS	NS	NS	-	NS	NS	NS	NS	-
G-1	12/7/1994	33.0	NA	NA	-	0.150	0.0140	0.230	1.40	-
G-1	2/21/1995	2.50	NA	NA	-	0.220	0.170	0.0390	0.440	-
G-1	6/21/1995	2.50	NA	NA	-	1.80	0.200	0.330	2.30	-
G-1	9/18/1995	14.0	NA	NA	-	3.10	0.200	0.270	1.10	-
G-1	12/12/1995	11.0	NA	NA	-	0.240	0.0620	0.100	0.740	-
G-1	3/6/1996	4.60	NA	NA	-	0.840	0.450	0.0500	510	-
G-1	6/5/1996	38.6	NA	NA	-	2.01	2.26	0.648	5.86	-
G-1	8/22/1996	13.8	NA	NA	-	0.321	0.0250 U	0.405	1.47	-
G-1	12/4/1996	12.1	NA	NA	-	0.0682	0.00840	0.0777	0.227	-
G-1	2/24/1997	4.60	NA	NA	-	0.252	0.0897	0.0317	0.268	-
G-1	5/28/1997	10.9	NA	NA	-	0.941	0.0236	0.240	0.669	-
G-1	8/11/1997	6.57	NA	NA	-	0.670	0.130	0.150	0.710	-
G-1	12/10/1997	3.92	14.0 U	NA	-	0.130	0.0380	0.0670	0.270	-
G-1	3/3/1998	2.76	5.00 U	NA	-	0.0640	0.0120	0.0350	0.160	-
G-1	6/3/1998	8.63	5.00 U	NA	-	0.322	0.0100 U	0.292	1.94	-
G-1	8/25/1998	4.97	5.00 U	NA	-	0.190	0.00500 U	0.230	0.410	-
G-1	12/2/1998	1.15	14.0 U	NA	-	0.00467	0.00232	0.0108	0.0105	-
G-1	3/1/1999	0.870	5.00 U	NA	-	0.00900	0.00300	0.00900	0.0220	-
G-1	6/9/1999	6.00	4.00 U	NA	-	0.210	0.0330	0.450	0.830	-
G-1	8/24/1999	1.10	4.00 U	NA	-	0.0350	0.00200	0.0750	0.0200	-
G-1	11/19/1999	0.930	4.00 U	NA	-	0.00400	0.00500	0.0190	0.0590	-
G-1	2/16/2000	0.220	4.80	NA	-	0.00140	0.00130	0.00430	0.0190	-
G-1	5/17/2000	2.50	2.80 U	NA	-	0.0480	0.0160	0.150	0.420	-
G-1	8/23/2000	0.800	8.40 U	NA	-	0.140	0.0130	0.0570	0.00740	-
G-1	11/22/2000	0.950	5.00 U	NA	-	0.230	0.00300 U	0.0130	0.00500 U	-
G-1	2/14/2001	1.47	5.00 U	NA	-	0.170	0.00300 U	0.00900	0.00500 U	-
G-1	5/9/2001	0.690	5.00 U	NA	-	0.0860	0.000500 U	0.0110	0.00770	-
G-1	8/8/2001	1.85	5.00 U	NA	-	0.630	0.00100	0.0160	0.00600	-
G-1	11/5/2001	0.710	5.00 U	NA	-	0.130	0.00100	0.00700	0.00600	-
G-1	2/19/2002	0.920	5.00 U	NA	-	0.0410	0.00300	0.0400	0.0770	-
G-1	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
G-1	8/20/2002	1.03 J	5.00 U	NA	-	0.0474 J	0.00116 J	0.0379 J	0.0684 J	-
G-1	11/20/2002	2.31	5.20 U	NA	-	0.0685 J	0.000728 J	0.0285 J	0.0700 J	-
G-1	1/28/2003	0.0500 U	5.15 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
G-1	4/30/2003	0.240	4.72 U	NA	-	0.00698	0.000629	0.0147	0.0310	-
G-1	8/26/2003	0.636	5.15 U	NA	-	0.0475	0.00200 U	0.0107	0.0105	-
G-1	10/30/2003	1.23	5.00 U	NA	-	0.0229	0.00282	0.0240	0.0633	-
G-1	1/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
G-1	5/5/2004	0.988	5.00 U	NA	-	0.0579	0.000754	0.0292	0.0138	-
G-1	8/10/2004	1.25 J	5.00 U	NA	-	0.0400 J	0.000953 J	0.00591 J	0.00387 J	-
G-1	10/28/2004	1.18 J	5.00 U	NA	-	0.0184 J	0.000513 J	0.0136 J	0.0168 J	-
G-1	2/9/2005	0.478	5.00 U	NA	-	0.0223	0.000500 U	0.0141	0.0107	-
G-1	5/10/2005	0.280	5.00 U	NA	-	0.00555	0.000500 U	0.00408	0.00460	-
G-1	8/5/2005	1.25 J	5.00 U	0.250 U	-	0.0342	0.000910	0.00569	0.00370 J	-
G-1	11/8/2005	1.23	5.26 U	0.248 U	-	0.0217	0.000843	0.0130	0.00691	-
G-1	2/8/2006	0.0500 U	4.81 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
G-1	5/2/2006	0.211	4.90 U	0.245 U	-	0.00149	0.000500 U	0.00825	0.0113	-
G-1	8/1/2006	0.387	4.72 U	0.236 U	-	0.0196	0.00200 U	0.0112	0.00150 U	-
G-1	12/20/2006	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
G-1	2/6/2007	0.123	4.72 U	0.240 U	0.481 U	0.00142	0.000500 U	0.00435	0.00100 U	-
G-1	5/8/2007	1.12 J	4.76 U	0.236 U	0.472 U	0.0125	0.000896	0.0681	0.00485	-
G-1	8/1/2007	0.731 J	4.90 U	0.240 U	0.481 U	0.0118	0.000772	0.00708	0.00100 U	-
G-1	11/6/2007	0.537	5.26 U	0.253 U	0.505 U	0.00154	0.000500 U	0.00192	0.00117	-
G-1	2/14/2008	0.419	4.72 U	0.236 U	0.472 U	0.00182	0.000500 U	0.00142	0.00100 U	-

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D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
G-1	5/5/2008	1.09	4.85 U	0.236 U	0.472 U	0.0273	0.000995	0.0164	0.00111	-
G-1	8/14/2008	0.846	5.21 U	0.243 U	0.485 U	0.0138	0.000751	0.00415	0.00110	-
G-1	11/11/2008	1.08	4.76 U	0.238 U	0.476 U	0.00700	0.000679	0.0124	0.00255	-
G-1	2/26/2009	0.293	4.72 U	0.236 U	0.472 U	0.00290	0.000500 U	0.00713	0.00100 U	-
G-1	5/13/2009	0.432	4.72 U	0.238 U	0.476 U	0.00514	0.000512	0.0144	0.00100 U	-
G-1	8/12/2009	1.10	5.00 U	0.380	0.240 U	0.00980	0.00100 U	0.00400	0.00200 U	-
G-1	11/10/2009	1.10	5.00 U	0.260	0.240 U	0.00110	0.00100 U	0.00250	0.00100 U	-
G-1	03/25/2010	0.0500 U	5.00 U	0.120 U	1.10	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-1	06/11/2010	0.430	5.40 U	0.830 Y	0.420	0.00150	0.00100 U	0.0110	0.00200 U	-
G-8	8/27/2003	20.5	NA	NA	-	0.404	0.200 U	2.41	1.93	-
G-8	10/31/2003	26.4	NA	NA	-	0.403	0.0716	2.42	2.44	-
G-8	1/27/2004	NS	NS	NS	-	NS	NS	NS	NS	-
G-8	5/6/2004	NS	NS	NS	-	NS	NS	NS	NS	-
G-8	8/12/2004	NS	NS	NS	-	NS	NS	NS	NS	-
G-8	10/28/2004	29.6	NA	NA	-	0.203	0.0721	3.00	1.35	-
G-8	2/9/2005	31.0	NA	NA	-	0.0798	0.314	3.54	4.82	-
G-8	5/12/2005	21.5	NA	NA	-	0.0852	0.200	2.78	2.57	-
G-8	8/3/2005	29.8 J	NA	13.0	-	0.0757 J	0.142 J	3.06 J	2.27 J	-
G-8	11/9/2005	31.1	NA	37.7	-	0.115	0.139	3.83	1.63	-
G-8	2/7/2006	22.3	NA	0.818	-	0.0128	0.123	2.17	2.54	-
G-8	5/2/2006	17.0	NA	NA	-	0.0699	0.0250 U	1.95	0.396	-
G-8	8/1/2006	45.4	NA	42.9	-	0.194	0.100 U	2.90	0.813	-
G-8	12/19/2006	18.8	NA	1.68	0.472 U	0.0198	0.0402	1.80	0.667	-
G-8	2/7/2007	14.1 J	NA	1.39	0.472 U	0.0164	0.0623	1.29	0.809	-
G-8	5/9/2007	14.4	NA	4.05	0.681	0.0202	0.0539	1.73	0.465	-
G-8	8/2/2007	17.1	NA	17.9	26.6 U	0.0369	0.0624	1.91	0.737	-
G-8	11/7/2007	22.7	NA	186	10.3	0.0457	0.0140	2.62	0.194	-
G-8	2/14/2008	17.6	NA	13.9	0.472 U	0.0191	0.0213	2.26	0.324	-
G-8	5/5/2008	17.8	NA	6.43	0.554	0.0250 U	0.0370	2.39	0.371	-
G-8	8/14/2008	17.5	NA	1.22	0.476 U	0.0250 U	0.0408	2.28	0.976	-
G-8	11/12/2008	16.0	NA	68.8	4.76 UJ	0.0250 U	0.0383	2.29	0.427	-
G-8	2/25/2009	14.1	NA	1.96	0.472 U	0.0125 U	0.0338	1.66	0.729	-
G-8	5/13/2009	11.3	NA	4.01	0.481 U	0.0376	0.0183	1.58	0.270	-
G-8	8/14/2009	10.0	NA	3.40	0.260 U	0.0370	0.00510	1.40	0.0950	-
G-8	11/12/2009	21.0	NA	33.0	2.70	0.0140	0.00530	1.90	0.116	-
G-8	03/24/2010	11.0	NA	8.50	1.00	0.0540	0.00430	3.00	0.0139	-
G-8	06/08/2010	14.0	NA	12.0 Y	0.960	0.0300	0.00550	2.60	0.0482	-
G-8	09/14/2010	17.0	11.0	560	19.0	0.0250	0.00590	2.80	0.0352	-
G-8	12/16/2010	7.70	7.00	2.90	0.770	0.00560	0.00250	1.30	0.0247	-
G-8	3/8/2011	6.80	5.10 U	2.30	0.240 U	0.00540	0.00470	1.00	0.0560	-
G-8	6/14/2011	9.10	5.40 U	2.70	0.260 U	0.00820	0.00380	1.10	0.0660	-
G-8	10/06/2011	5.21	5.30 U	2.39	0.490 U	0.0108	0.00250 U	1.23	0.00500 U	-
G-8	12/6/2011	6.60	5.10 U	2.10	0.240 U	0.00520	0.00190	1.30	0.00240	-
G-8	4/2/2012	4.00	5.50 U	2.20	0.280	0.00360	0.00130	0.540	0.00200 U	-
G-8	6/13/2012	6.00 J	NA	1.80 J	0.240 UJ	0.00350 J	0.00200 J	0.640 J	0.00650 J	-
G-8	9/11/2012	5.60	NA	2.50	0.730	0.00600	0.00210	0.460	0.00910	-
G-8	12/12/2012	1.70	NA	1.60	0.240 U	0.00200	0.00100 U	0.0640	0.00200 U	-
G-8	3/13/2013	2.40	NA	1.80	0.340	0.00180	0.00100	0.0660	0.00200 U	-
G-8	6/11/2013	4.00	NA	3.20	0.270	0.00340	0.00220	0.0860	0.0189	-
G-8	9/24/2013	3.20	NA	2.00	0.300	0.00190	0.00100 U	0.0380	0.00600	-
G-8	12/3/2013	2.2	NA	0.93	0.24	0.0019	0.0014	0.076	0.0149	-
G-8	3/3/2014	0.73	NA	0.73	0.38	0.001 U	0.001 U	0.0034	0.002 U	-
G-8	6/10/2014	2.8 J	NA	1.5	0.25 U	0.0014	0.0016	0.19	0.0216	-
G-8	9/25/2014	1.6 J	NA	0.86	0.39	0.0013	0.001 U	0.037	0.002 U	-
G-8	12/16/2014	0.25	NA	0.55	0.34	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
G-8	3/24/2015	0.31	NA	0.46	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
G-8	6/16/2015	1.3	NA	1.0	0.27 U	0.0020 U	0.0020 U	0.041	0.0079	-
G-8	9/21/2015	0.97 J	NA	0.56	0.26 U	0.0020 U	0.0020 U	0.015	0.0030 U	-

Appendix A
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
G-8	12/21/2015	0.11	NA	0.61	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
G-8	3/21/2016	0.0806 J	NA	0.463	0.217	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
G-8	6/21/2016	0.868 J	NA	0.491	0.138 J	0.00063 J	0.00033 J	0.0107	0.0011 J	-
G-8	9/22/2016	0.888	NA	1.72	0.178 J	0.0013	0.00042 J	0.0484	0.0012 J	-
G-8	12/7/2016	0.820	NA	-	-	0.0007	0.00034 J	0.029	0.0046	-
G-8	6/20/2017	0.500	NA	0.74 J	0.21 J	0.00042	0.0010 U	0.0058	0.0016 J	-
G-8	9/19/2017	0.690	NA	0.0010	0.25 J	0.0010 J	0.0010 U	0.00071 J	0.00052 J	-
G-8	9/18/2018	0.510	NA	0.9700	0.55	0.0007	0.0010 U	0.00037 J	0.00091 J	-
G-8	9/11/2019	0.340	NA	0.4300	0.13 U	0.0004 J	0.0001 J	0.00059 J	0.00031 U	-
G-8	9/22/2020	0.110 J	NA	0.3000	0.14 J	0.0001 U	0.0003 U	0.00020 U	0.00044 U	-
G-8	9/14/2021	0.360	NA	0.3800	0.12 U	0.0003 J	0.0003 U	0.01600	0.00071 J	-
G-8	8/1/2022	0.340	NA	0.43	0.13 U	0.0001 U	0.0003 U	0.00630	0.00140 J	-
G-8	10/3/2023	0.150 U	NA	0.48	0.24 J	0.000093 U	0.00031 U	0.00067 J	0.00044 U	-
G-16	6/15/2011	0.0500 U	5.00 U	0.180	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	10/04/2011	0.0800 U	5.00 U	0.260	0.250 U	0.000400 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	12/6/2011	0.0500 U	4.90 U	0.150	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	4/4/2012	0.0500 U	5.20 U	0.620	0.600	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	6/12/2012	0.0560	NA	0.170	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	9/10/2012	0.0500 U	NA	0.150	0.310	0.000770 J	0.00100 U	0.00100 U	0.00200 U	-
G-16	12/10/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	3/14/2013	0.0500 U	NA	0.280	0.260 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	6/11/2013	0.0560	NA	0.0570	0.0520	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
G-16	9/27/2013	0.250 U	NA	0.250	0.240 U	0.00100 U	0.00250 U	0.00250 U	0.00500 U	-
G-16	9/25/2014	0.05 U	NA	1.5 J	1.3	0.001 U	0.001 U	0.001 U	0.002 U	-
G-16	9/23/2015	0.067	NA	0.93	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
G-16	9/22/2016	0.10 U	NA	1.05	0.174	0.00023 J	0.0010 U	0.0010 U	0.0030 U	-
G-16	9/21/2017	0.15 U	NA	0.52	0.20 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
G-16	9/18/2018	0.15 U	NA	0.93	1.10	0.00027 J	0.0010 U	0.0010 U	0.0030 U	-
G-16	9/10/2019	0.05 J	NA	0.21 J	0.12 U	0.00070 J	0.0001 U	0.0004 J	0.0003 U	-
G-16	9/23/2020	0.07 U	NA	0.27	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
G-18	6/21/1995	6.50	NA	NA	-	1.20	0.00800 U	0.190	0.0240	-
G-18	9/18/1995	13.0	NA	NA	-	1.30	0.0800	0.260	0.0430	-
G-18	12/12/1995	2.30	NA	NA	-	0.690	0.00400 U	0.130	0.0210	-
G-18	3/6/1996	3.80	NA	NA	-	1.00	0.00400 U	0.0990	0.0110	-
G-18	6/5/1996	3.16	NA	NA	-	0.542	0.00500 U	0.122	0.0177	-
G-18	8/22/1996	8.99	NA	NA	-	0.980	0.0100 U	0.332	0.0582	-
G-18	12/5/1996	3.42	NA	NA	-	0.393	0.00500 U	0.226	0.0391	-
G-18	2/24/1997	1.32	NA	NA	-	0.246	0.00300 U	0.0708	0.0136	-
G-18	5/28/1997	2.51	NA	NA	-	0.690	0.0100 U	0.152	0.0232	-
G-18	8/8/1997	4.08	NA	NA	-	0.880	0.0100 U	0.200	0.0240	-
G-18	12/10/1997	3.34	55.8	NA	-	1.16	0.0100 U	0.190	0.0240	-
G-18	3/3/1998	2.25	13.1	NA	-	0.260	0.00300 U	0.0970	0.0120	-
G-18	6/3/1998	5.17	25.2	NA	-	1.67	0.0250 U	0.258	0.0500 U	-
G-18	8/24/1998	5.98	21.7	NA	-	1.56	0.0190	0.280	0.0660	-
G-18	12/2/1998	3.52	19.3	NA	-	1.73	0.0100 U	0.299	0.0324	-
G-18	3/1/1999	2.37	6.20	NA	-	0.430	0.00500 U	0.130	0.0240	-
G-18	6/9/1999	2.60	4.40	NA	-	1.00	0.00300	0.260	0.0290	-
G-18	8/24/1999	3.40	4.00 U	NA	-	1.20	0.00400	0.290	0.0300	-
G-18	11/18/1999	2.10	4.00 U	NA	-	0.810	0.00600	0.180	0.0200	-
G-18	2/17/2000	2.30	10.0	NA	-	0.670	0.00190	0.190	0.0220	-
G-18	5/17/2000	1.70	2.80 U	NA	-	0.460	0.00210	0.160	0.0180	-
G-18	8/24/2000	2.10	8.40 U	NA	-	0.960	0.00270	0.180	0.0170	-
G-18	11/21/2000	4.27	5.00 U	NA	-	1.28	0.0100 U	0.190	0.0250	-
G-18	2/14/2001	5.16	5.00 U	NA	-	0.610	0.00500 U	0.230	0.0280	-
G-18	5/9/2001	4.32	8.22	NA	-	0.820	0.0100 U	0.230	0.0240	-
G-18	8/8/2001	4.06	6.00	NA	-	0.470	0.0100 U	0.170	0.0200 U	-
G-18	11/6/2001	4.28	5.00 U	NA	-	0.950	0.0100 U	0.190	0.0200 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
G-18	2/19/2002	0.990	5.90	NA	-	0.130	0.00100 U	0.0730	0.00700	-
G-18	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
G-18	8/20/2002	NS	NS	NS	-	NS	NS	NS	NS	-
G-18	11/20/2002	2.65 J	6.06	NA	-	0.345	0.00105	0.124	0.00988	-
G-18	1/28/2003	0.0500 U	5.05 U	NA	-	0.00100	0.000500 U	0.00203	0.000100 U	-
G-18	4/30/2003	0.456	4.90 U	NA	-	0.0126	0.000500 U	0.0174	0.00209	-
G-18	8/26/2003	0.958	5.10 U	NA	-	0.0885	0.00200 U	0.0368	0.00150 U	-
G-18	11/4/2003	1.29	6.42	NA	-	0.0828	0.00250 U	0.0407	0.00922	-
G-18	1/27/2004	NS	NS	NS	-	NS	NS	NS	NS	-
G-18	5/6/2004	1.06	7.50	NA	-	0.171	0.00125 U	0.0422	0.00436	-
G-18	8/10/2004	1.54	5.00 U	NA	-	0.209	0.00250 U	0.0690	0.00630	-
G-18	10/29/2004	0.867	5.00 U	NA	-	0.0889	0.00250 U	0.0393	0.00500 U	-
G-18	2/10/2005	0.396	5.00 U	NA	-	0.0541	0.000500 U	0.0166	0.00213	-
G-18	5/11/2005	0.422	7.20	NA	-	0.0549	0.000500 U	0.0202	0.00234	-
G-18	8/4/2005	2.21	10.2	6.22	-	0.394	0.00105	0.0803	0.00840	-
G-18	11/9/2005	2.99	7.37	21.1	-	0.552	0.00277	0.139	0.0161	-
G-18	2/8/2006	0.0500 U	4.76 U	0.238 U	-	0.00135	0.000500 U	0.000793	0.00100 U	-
G-18	5/3/2006	0.705	4.72 U	0.508	-	0.0985	0.00250 U	0.0144	0.00500 U	-
G-18	8/2/2006	2.34	5.00 U	3.67	-	0.629	0.0100 U	0.0676	0.00750 U	-
G-18	12/21/2006	0.0646	4.90 U	0.243 U	0.485 U	0.00535	0.000500 U	0.00159	0.00100 U	-
G-18	2/6/2007	0.0664	4.76 U	0.236 U	0.472 U	0.00367	0.000500 U	0.00137	0.00100 U	-
G-18	5/8/2007	0.305	4.76 U	0.764	0.476 U	0.0288	0.000500 U	0.00598	0.00100 U	-
G-18	8/1/2007	1.27	5.21 U	1.57	0.500 U	0.267	0.000776	0.0317	0.00257	-
G-18	11/7/2007	1.48	4.95 U	2.39	0.505 U	0.214	0.00250 U	0.0457	0.00598	-
G-18	2/14/2008	0.315	4.81 U	0.386	0.481 U	0.0307	0.000500 U	0.0101	0.00172	-
G-18	5/5/2008	0.530	4.72 U	0.457	0.476 U	0.0723	0.000500 U	0.0176	0.00255	-
G-18	8/14/2008	0.549	5.21 U	0.798	0.495 U	0.0934	0.000500 U	0.0157	0.00275	-
G-18	11/13/2008	0.946	4.76 U	1.25	0.476 U	0.214	0.000637	0.0202	0.00371	-
G-18	2/27/2009	0.0500 U	4.81 U	0.238 U	0.476 U	0.00104	0.000500 U	0.000500 U	0.00100 U	-
G-18	5/12/2009	0.0706	4.72 U	0.240	0.472 U	0.00817	0.000500 U	0.000500 U	0.00100 U	-
G-18	8/12/2009	1.50	8.80	11.0	0.510	0.200	0.00140	0.0160	0.00330	-
G-18	11/1/2009	0.780	5.00 U	0.970	0.240 U	0.150	0.00100 U	0.0120	0.00110	-
G-18	03/25/2010	0.0500 U	5.00 U	0.130	0.260	0.00220	0.00100 U	0.00100 U	0.00200 U	-
G-18	06/14/2010	0.200	5.30 U	1.40 Y	0.330	0.0350	0.00100 U	0.00220	0.00200 U	-
G-18	09/15/2010	0.570 J	5.00 U	1.80 Y,J	0.240 U	0.140	0.00100 U	0.0110	0.00200 U	-
G-18	3/7/2011	0.0970	5.70	0.280	0.240 U	0.0140 J	0.00100 U	0.00180	0.00200 U	-
G-18	6/15/2011	0.210	5.00 U	0.490	0.240 U	0.0490	0.00100 U	0.00560	0.00200 U	-
G-18	10/03/2011	0.403 J	5.70 UJ	0.845 J	0.485 UJ	0.0794 J	0.00250 UJ	0.00715 J	0.00500 UJ	-
G-18	12/5/2011	0.480	5.30 U	1.20	0.240 U	0.0820	0.00160	0.00660	0.00100	-
G-18	4/5/2012	0.0500 U	5.10 U	1.10	1.30	0.00190	0.00100 U	0.00100 U	0.00200 U	-
G-18	6/13/2012	1.60 J	NA	1.10 J	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00570 J	0.00200 UJ	-
G-18	9/12/2012	0.870	NA	1.40	0.240 U	0.0750	0.00110	0.00200	0.00270	-
G-18	12/13/2012	0.0770	NA	0.290	0.270	0.00830	0.00100 U	0.00100 U	0.00200 U	-
G-18	3/14/2013	0.0800	NA	0.490	0.240 U	0.00640	0.00100 U	0.00100 U	0.00200 U	-
G-18	6/12/2013	0.350 J	NA	0.660 J	0.210	0.0160	0.00100 U	0.00100 U	0.00200 U	-
G-18	9/24/2013	0.750	NA	1.10	0.870	0.0270	0.00100 U	0.00100 U	0.00200 U	-
G-18	12/3/2013	0.18	NA	0.47	0.24 U	0.0061 J	0.001 U	0.001 U	0.002 U	-
G-18	3/5/2014	0.3	NA	1.2	0.58	0.0097	0.005 U	0.005 U	0.005 U	-
G-18	6/9/2014	0.21	NA	1.5	0.74	0.0011	0.001 U	0.001 U	0.002 U	-
G-18	9/25/2014	0.21	NA	1.9	1.1	0.0028	0.001 U	0.001 U	0.002 U	-
G-18	12/15/2014	0.18	NA	1.1 J	0.46	0.0050	0.0010 U	0.0010 U	0.0020 U	-
G-18	3/24/2015	0.060	NA	0.52	0.27	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
G-18	6/16/2015	0.26 J	NA	1.6	0.86	0.0021	0.0020 U	0.0030 U	0.0030 U	-
G-18	9/22/2015	0.49	NA	1.6	0.26 U	-	R	-	R	-
G-18	12/22/2015	0.10 U	NA	0.92	0.56	0.0012	0.0010 U	0.0010 U	0.0030 U	-
G-18	3/23/2016	0.148	NA	0.951	0.538	0.00067 J	0.0010 U	0.0010 U	0.0020 U	-
G-18	6/22/2016	0.225 J	NA	0.840	0.319 J	0.0011	0.0010 U	0.0010 U	0.0020 U	-
G-18	9/22/2016	0.433	NA	1.85	0.298	0.0077	0.00041 J	0.00035 J	0.0030 U	-
G-18	12/7/2016	0.054 J	NA	0.75	0.28 U	0.00040	0.00100 U	0.00100 U	0.0030 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
G-18	3/20/2017	0.150 U	NA	0.34	0.35 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
G-18	6/22/2017	0.150 U	NA	1.4	0.78	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
G-18	9/18/2017	0.170	NA	1.1	0.20 J	0.0012	0.0010 U	0.00034 J	0.00058 J	-
G-18	3/19/2018	0.150 U	NA	1.1	0.45	0.0003 J	0.0010 U	0.00100 U	0.00300 U	-
G-18	9/18/2018	0.100 J	NA	2.4	1.60	0.0008	0.0010 U	0.00100 U	0.00052 J	-
G-18	3/12/2019	0.070 U	NA	0.88	0.92	0.0001 U	0.0003 U	0.00020 U	0.00044 U	-
G-18	9/11/2019	0.190	NA	0.61	0.14 U	0.0003 J	0.0003 J	0.00017 J	0.00043 J	-
G-18	3/24/2020	0.070 U	NA	1.2	0.98	0.0001 U	0.0003 U	0.00020 U	0.00044 U	-
G-18	9/25/2020	0.130 J	NA	0.92	0.22 J	0.0007	0.0003 U	0.00020 U	0.00044 U	-
G-18	3/30/2021	0.077 J	NA	0.67	0.28 J	0.0005	0.0003 U	0.00020 U	0.00044 U	-
G-18	9/14/2021	0.250	NA	1.2	0.14 J	0.0004 J	0.0003 U	0.00020 U	0.00052 J	-
G-18	2/8/2022	0.073 J	NA	0.28	0.13 J	0.0001 J	0.0003 U	0.00020 U	0.00044 U	-
G-18	8/3/2022	0.260 J	NA	1.3	0.35 J	0.0005 J	0.0003 UJ	0.00020 UJ	0.00044 UJ	-
G-18	4/11/2023	0.130 J	NA	0.92	0.16 J	0.00062	0.00031 U	0.00020 U	0.00044 U	-
G-18	10/3/2023	0.400	NA	1.4	0.43	0.00049	0.00033 J	0.00020 U	0.00044 U	-
G-20	9/16/1993	7.20	NA	NA	-	12.0	0.0250 U	0.870	0.110	-
G-20	12/15/1993	7.20	NA	NA	-	11.0	0.120	0.720	0.360	-
G-20	2/1/1994	8.00	NA	NA	-	15.0	0.0250 U	1.10	0.160	-
G-20	6/21/1994	13.0	NA	NA	-	8.80	0.0250 U	0.640	0.110	-
G-20	8/18/1994	16.0	NA	NA	-	13.0	0.0250 U	1.00	0.190	-
G-20	12/7/1994	7.30	NA	NA	-	5.90	0.0250 U	0.500	0.0620	-
G-20	2/21/1995	34.0	NA	NA	-	6.70	0.0250 U	0.640	0.200	-
G-20	6/21/1995	1.80	NA	NA	-	7.40	0.0400 U	0.190	0.0240	-
G-20	9/18/1995	97.0	NA	NA	-	5.10	0.0800 U	0.530	0.160 U	-
G-20	12/12/1995	15.0	NA	NA	-	3.70	0.0200 U	0.520	0.0760	-
G-20	3/6/1996	50.0	NA	NA	-	7.60	0.00800 U	0.810	0.170	-
G-20	6/5/1996	19.7	NA	NA	-	5.34	0.100 U	0.487	0.200 U	-
G-20	8/21/1996	12.3	NA	NA	-	2.86	0.0250 U	0.248	0.0500	-
G-20	12/3/1996	8.32	NA	NA	-	0.676	0.00500 U	0.0841	0.0135	-
G-20	2/24/1997	7.49	NA	NA	-	2.24	0.0130 U	0.210	0.0250 U	-
G-20	5/28/1997	27.1	NA	NA	-	1.56	0.0154	0.254	0.0363	-
G-20	8/8/1997	8.12	NA	NA	-	0.910	0.0100	0.230	0.0300	-
G-20	12/11/1997	8.71	77.4	NA	-	0.460	0.0100	0.190	0.0280	-
G-20	3/4/1998	8.69	88.3	NA	-	1.43	0.0130 U	0.260	0.0250 U	-
G-20	6/2/1998	9.66	19.3	NA	-	1.78	0.0250 U	0.280	0.0500 U	-
G-20	8/24/1998	4.92	25.2	NA	-	2.06	0.0250 U	0.230	0.0500 U	-
G-20	12/2/1998	4.55	16.2	NA	-	0.535	0.0250 U	0.0882	0.0500 U	-
G-20	3/1/1999	4.51	40.7	NA	-	2.69	0.0250 U	0.190	0.0500 U	-
G-20	6/9/1999	5.60	6.60	NA	-	3.20	0.0100	0.260	0.0200 U	-
G-20	8/24/1999	5.20	4.80	NA	-	4.30	0.00800	0.280	0.00600	-
G-20	11/19/1999	2.50	4.00 U	NA	-	0.840	0.00500	0.0610	0.00400	-
G-20	2/17/2000	3.00	5.70	NA	-	0.930	0.00330	0.0510	0.0100 U	-
G-20	5/18/2000	1.70	2.80 U	NA	-	4.70	0.00870	0.380	0.00770	-
G-20	8/24/2000	4.10	8.40 U	NA	-	4.40	0.00570	0.200	0.00620	-
G-20	11/20/2000	11.6	5.00 U	NA	-	4.83	0.0250 U	0.250	0.0500 U	-
G-20	2/14/2001	12.5	5.00 U	NA	-	4.13	0.0250 U	0.410	0.0500 U	-
G-20	5/9/2001	16.2	9.96	NA	-	6.21	0.0100	0.280	0.200 U	-
G-20	8/8/2001	12.1	5.00 U	NA	-	4.20	0.0100	0.110	0.0200 U	-
G-20	11/6/2001	10.5	5.00 U	NA	-	3.71	0.0100	0.120	0.0200 U	-
G-20	2/19/2002	13.7	5.00 U	NA	-	5.17	0.0100	0.270	0.0200 U	-
G-20	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
G-20	8/20/2002	14.7 J	5.00 U	NA	-	4.90 J	0.00778 J	0.166 J	0.0122 J	-
G-20	11/19/2002	7.83	4.90 U	NA	-	1.95	0.0250 U	0.0820	0.0500 U	-
G-20	1/29/2003	7.92	7.60	NA	-	1.83	0.0100 U	0.157	0.0200	-
G-20	4/30/2003	11.2	4.76 U	NA	-	4.43	0.0250 U	0.187	0.0500 U	-
G-20	8/26/2003	4.12	5.10 U	NA	-	1.36	0.00200	0.0403	0.00150 U	-
G-20	11/4/2003	6.60	10.8	NA	-	1.26	0.0250 U	0.153	0.0500 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
G-20	1/27/2004	6.28	5.00 U	NA	-	1.44	0.0100 U	0.0984	0.0200 U	-
G-20	5/6/2004	3.69	5.00	NA	-	0.907	0.00472	0.0758	0.00678	-
G-20	8/10/2004	5.43	5.00 U	NA	-	1.37	0.00500 U	0.238	0.0100 U	-
G-20	10/29/2004	5.53	5.00 U	NA	-	0.988	0.00500 U	0.208	0.0100 U	-
G-20	2/10/2005	5.49	5.00 U	NA	-	1.40	0.0100 U	0.226	0.0200 U	-
G-20	5/11/2005	5.15	5.00 U	NA	-	1.29	0.0100 U	0.193	0.0200 U	-
G-20	8/4/2005	6.59 J	5.00 U	7.68	-	1.48	0.00571 J	0.226	0.00593 J	-
G-20	11/9/2005	4.54	5.00 U	15.3	-	1.21	0.00567	0.177	0.00806	-
G-20	2/9/2006	6.11	4.81 U	0.238 U	-	1.59	0.0100 U	0.110	0.0200 U	-
G-20	5/3/2006	2.25 J	4.76	2.31	-	0.131	0.00250 U	0.00503	0.00500 U	-
G-20	8/8/2006	0.904	4.72 U	1.61	-	0.218	0.00250 U	0.00958	0.00500 U	-
G-20	12/21/2006	2.59	4.81 U	0.802	0.472 U	0.759	0.00500 U	0.0259	0.00100 U	-
G-20	2/8/2007	10.0 J	4.90 U	0.992	0.495 U	3.39	0.0250 U	0.0471	0.0500 U	-
G-20	5/10/2007	1.34	4.76 U	1.73	0.472 U	0.272	0.000970	0.00651	0.00320	-
G-20	8/1/2007	1.58	5.00 U	35.7	4.72 U	0.241	0.00306	0.00532	0.00500 U	-
G-20	11/7/2007	0.115	4.76 U	1.74	0.481 U	0.00224	0.000500 U	0.000500 U	0.00100 U	-
G-20	2/14/2008	0.584	4.76 U	1.84	0.476 U	0.0842	0.000609	0.00666	0.00168	-
G-20	5/5/2008	1.13	6.02 U	2.96	0.476 U	0.264	0.000619	0.0134	0.00179	-
G-20	8/15/2008	0.244	5.21 U	1.24	0.968	0.0340	0.00250 U	0.00523	0.00500 U	-
G-20	11/12/2008	0.719	5.00 U	1.11	0.490 U	0.0414	0.000102	0.000714	0.00159	-
G-20	2/26/2009	1.28	4.90 U	1.33	0.485 U	0.0952	0.00282	0.0998	0.00395	-
G-20	5/13/2009	1.23	4.76 U	1.04	0.472 U	0.0962	0.00337	0.0162	0.00383	-
G-20	8/12/2009	1.20	5.00 U	1.20	0.410	0.0380	0.00200 U	0.0990	0.00400 U	-
G-20	11/11/2009	2.20	5.00 U	2.10	0.380	0.0990	0.00310	0.0800	0.00520	-
G-20	03/29/2010	0.150	5.00 U	1.10	0.350	0.00560	0.00100 U	0.00160	0.00200 U	-
G-20	06/09/2010	0.280	4.90 U	2.70 Y	0.350	0.0200	0.00100 U	0.00410	0.00200 U	-
G-24	11/6/2007	5.77 J	NA	0.475	0.505 U	0.0147 J	0.00130 J	0.0218 J	0.00572 J	-
G-24	2/14/2008	4.06 J	NA	0.236 U	0.472 U	0.0110	0.00250 U	0.0305	0.0307	-
G-24	5/8/2008	6.22 J	NA	0.545	0.476 U	0.00892 J	0.00208 J	0.149 J	0.197 J	-
G-24	8/13/2008	4.78 J	NA	0.553	0.472 U	0.0142	0.00250 U	0.0212	0.00734	-
G-24	11/12/2008	5.80 J	NA	0.820	0.481 U	0.0283 J	0.00250 U	0.0230 J	0.00500 U	-
G-24	2/24/2009	2.80 J	NA	0.236 U	0.472 U	0.0114	0.00250 U	0.0344	0.00624	-
G-24	5/13/2009	3.69 J	NA	0.303	0.481 U	0.0131 J	0.00126 J	0.0572 J	0.0117 J	-
G-24	8/12/2009	7.70	NA	1.60	0.240 U	0.0130	0.00130	0.0670	0.00911	-
G-24	11/10/2009	7.90	NA	2.20	0.250 U	0.0160	0.00140	0.0220	0.00130	-
G-24	3/26/2010	0.380	NA	0.160	0.260 U	0.00100 U	0.00100 U	0.00760	0.0474	-
G-24	06/09/2010	3.40	NA	1.20 Y	0.240 U	0.00130	0.00100 U	0.210	0.250	-
HC-108	11/8/2007	7.02	NA	14.0	0.490 U	0.0210	0.0320	0.252	1.06	-
HC-108	2/15/2008	2.15	NA	2.26	0.472 U	0.00433	0.00337	0.178	0.332	-
HC-108	5/8/2008	7.62	NA	2.32	0.481 U	0.0124	0.0148	0.594	1.64	-
HC-108	8/15/2008	4.86	NA	1.33	0.476 U	0.0129	0.0158	0.321	1.02	-
HC-108	11/12/2008	4.97	NA	3.15	0.485 U	0.0114	0.0116	0.228	0.745	-
HC-108	2/27/2009	4.52	NA	2.40	0.476 U	0.00616	0.00630	0.457	0.841	-
HC-108	5/14/2009	6.79	NA	1.39	0.485 U	0.00872	0.00917	0.575	1.17	-
HC-108	8/14/2009	8.30	NA	3.10	0.340	0.0500 U	0.0100	0.580	0.990	-
HC-108	11/12/2009	8.80	NA	43.0	2.00	0.0120	0.0130	0.630	1.19	-
HC-108	3/26/2010	2.30	NA	4.80	0.370	0.00230	0.00180	0.150	0.169	-
HC-108	06/14/2010	2.00	NA	5.10 Y	0.350	0.00170	0.00170	0.140	0.191	-
HC-111	8/18/1994	260	NA	NA	-	15.0	49.0	7.00	31.0	-
HC-111	12/7/1994	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	2/21/1995	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	6/21/1995	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	9/18/1995	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	12/12/1995	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	3/6/1996	150	NA	NA	-	9.80	18.0	3.60	17.0	-
HC-111	6/5/1996	84.2	NA	NA	-	18.9	20.1	3.01	12.8	-

Appendix A
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D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
HC-111	8/22/1996	92.2	NA	NA	-	11.9	13.2	3.06	11.9	-
HC-111	12/5/1996	137	NA	NA	-	18.2	18.4	2.92	12.0	-
HC-111	2/24/1997	122	NA	NA	-	14.1	16.0	2.79	15.7	-
HC-111	5/28/1997	123	NA	NA	-	16.6	19.3	3.51	18.6	-
HC-111	8/8/1997	132	NA	NA	-	17.3	19.8	3.82	16.4	-
HC-111	12/10/1997	107	14.0 U	NA	-	18.6	12.4	3.39	15.2	-
HC-111	3/3/1998	110	5.00 U	NA	-	13.1	11.2	3.05	16.4	-
HC-111	6/3/1998	122	5.00 U	NA	-	18.8	13.6	3.75	15.3	-
HC-111	8/24/1998	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	12/2/1998	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	3/1/1999	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	6/9/1999	87.0	4.00 U	NA	-	19.0	7.00	3.70	13.0	-
HC-111	8/24/1999	62.0	4.00 U	NA	-	18.0	3.90	3.60	9.90	-
HC-111	11/18/1999	51.0	4.80	NA	-	23.0	3.90	3.80	9.30	-
HC-111	2/17/2000	87.0	7.70	NA	-	10.0	8.70	1.80	14.0	-
HC-111	5/17/2000	76.0	4.10	NA	-	20.0	11.0	4.10	12.0	-
HC-111	8/24/2000	44.0	8.40 U	NA	-	20.0	3.10	3.50	6.90	-
HC-111	11/21/2000	77.2	5.00 U	NA	-	25.4	1.90	4.05	6.16	-
HC-111	2/14/2001	81.2	5.00 U	NA	-	22.1	3.62	3.89	6.86	-
HC-111	5/9/2001	67.6	5.00 U	NA	-	20.0	4.46	4.13	7.93	-
HC-111	8/8/2001	64.8	5.00 U	NA	-	17.3	3.35	3.69	6.16	-
HC-111	11/6/2001	56.6	5.00 U	NA	-	17.6	1.16	3.45	4.51	-
HC-111	2/19/2002	95.6	0.500 U	NA	-	15.1	9.41	3.38	9.81	-
HC-111	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
HC-111	8/20/2002	81.2	5.00 U	NA	-	19.3	5.08	3.96	6.78	-
HC-111	11/20/2002	71.9	5.40 U	NA	-	17.0	3.71	3.03	5.21	-
HC-111	1/30/2003	89.7	5.00 U	NA	-	16.4	7.72	3.34	7.38	-
HC-111	4/30/2003	47.3	4.95 U	NA	-	8.35	2.29	1.25	9.46	-
HC-111	8/28/2003	52.5	5.00 U	NA	-	14.8	1.01	2.43	3.68	-
HC-111	11/3/2003	59.7	4.72 U	NA	-	15.9	1.28	2.69	4.33	-
HC-111	1/27/2004	41.4	5.00 U	NA	-	4.41	0.405	0.573	4.35	-
HC-111	5/4/2004	19.8	6.02 U	NA	-	3.78	0.119	0.330	0.989	-
HC-111	8/12/2004	25.4	5.00 U	NA	-	8.24	0.0820	1.02	0.282	-
HC-111	10/29/2004	52.5	5.00 U	NA	-	15.2	0.0720	2.83	0.483	-
HC-111	2/10/2005	34.7	5.00 U	NA	-	14.3	0.102	2.48	0.538	-
HC-111	5/11/2005	35.2	5.00 U	NA	-	10.9	0.328	2.42	1.52	-
HC-111	8/4/2005	16.4	6.49	1.01	-	5.52 J	0.00897	0.758	0.0250	-
HC-111	11/10/2005	19.0	12.3	3.86	-	4.65	0.0509	0.689	0.584	-
HC-111	2/9/2006	10.6	5.92	0.293	-	2.31	0.0816	0.317	0.696	-
HC-111	5/3/2006	17.5	4.72 U	24.8	-	3.75	0.370	0.677	0.790	-
HC-111	8/8/2006	4.62	5.10 U	0.771	-	1.50	0.00641	0.0943	0.195	-
HC-111	12/21/2006	4.77	9.33	0.240 U	0.481 U	0.983	0.0386	0.150	0.128	-
HC-111	2/8/2007	13.0	6.42	2.11	0.476 U	3.07	0.340	0.168	0.589	-
HC-111	5/10/2007	29.1	6.00	0.394	0.472 U	6.16	1.54	0.972	2.02	-
HC-111	8/1/2007	12.1	4.95 U	16.8 J	4.90 U	3.70	0.120	0.430	0.570	-
HC-111	11/8/2007	20.8	5.43 U	4.75	0.510 U	6.15	0.0500 U	0.597	0.549	-
HC-111	2/15/2008	7.89	4.72 U	0.236 U	0.472 U	1.76	0.0726	0.193	0.728	-
HC-111	5/5/2008	16.5	4.76 U	0.360	0.481 U	4.10	0.304	0.811	0.895	-
HC-111	8/15/2008	14.4	NA	2.25	4.72 U	4.55	0.0500 U	0.430	0.100 U	-
HC-111	11/12/2008	19.0	4.81 U	4.66	0.481 U	5.25	0.0500 U	1.17	0.411	-
HC-111	2/27/2009	3.86	4.76 U	15.0	2.38 U	0.719	0.00500 U	0.309	0.134	-
HC-111	5/14/2009	2.52	4.85 U	4.99	0.481 U	0.313	0.00500 U	0.274	0.0184	-
HC-111	8/14/2009	4.60	5.00 U	5.80	0.240 U	3.10	0.00270	0.790	0.0220	-
HC-111	11/12/2009	6.10	5.00 U	3.80	0.240 U	2.40	0.00930	0.910	0.186	-
HC-111	3/26/2010	0.620	53.0	7.20	0.470	0.0730	0.00100 U	0.00440	0.0130	-
HC-111	06/14/2010	2.30	5.30 U	27.0	1.10	0.830	0.00790	0.0820	0.218	-
HC-111	09/16/2010	6.70	5.00 U	47.0 Y	4.70	2.40	0.0640	0.320	0.990	-
HC-111	12/17/2010	5.70	5.30 U	21.0	5.00	1.30	0.0450	0.210	1.24	-
HC-111	3/10/2011	8.60	4.90 U	2.30	0.240 U	2.80	0.0200	0.670	1.69	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
HC-111	6/15/2011	10.0	5.00 U	3.80	0.890	2.70	0.0110	0.660	2.10	-
HC-111	10/03/2011	5.06	5.30 U	1.27	0.510 U	2.01	0.0120	0.101	0.122	-
HC-111	12/6/2011	1.70	5.30 U	1.60	0.250 U	0.760	0.00460	0.0830	0.0410	-
HC-111	4/2/2012	0.860	5.30 U	19.0	5.80	1.10	0.00340	0.0870	0.0770	-
HC-111	6/13/2012	5.10 J	NA	9.20 J	1.70 J	1.80 J	0.0150 J	0.430 J	0.204 J	-
HC-111	9/13/2012	2.70	NA	0.900	0.240 U	2.00 J	0.00860	0.0880	0.0330	-
HC-111	12/13/2012	0.550	NA	0.320	0.240 U	0.300	0.00220	0.0200	0.0570	-
HC-111	3/14/2013	2.50	NA	3.30	0.340	1.10	0.00760	0.240	0.0600	-
HC-111	6/12/2013	3.10	NA	1.10	0.0560	1.20	0.0110	0.100	0.159	-
HC-111	9/26/2013	2.50	NA	0.390	0.240 U	0.610	0.00500 U	0.0300	0.0100 U	-
HC-111	12/5/2013	3.6	NA	0.74	0.24 U	1.70	0.0096	0.75	0.0549	-
HC-111	3/5/2014	0.12	NA	4.2	1.2	0.30 J	0.0014 J	0.001 U	0.002 U	-
HC-111	6/9/2014	1.6	NA	6.6	1.3	1.20	0.0042	0.24	0.1598	-
HC-111	9/23/2014	1.7 J	NA	3.7	0.5	0.79	0.0065	0.025	0.0078	-
HC-111	12/16/2014	0.063	NA	5.5	2.1	0.084	0.0010 U	0.0010 U	0.0020 U	-
HC-111	3/26/2015	0.65	NA	- R	- R	0.33	0.0020 U	0.057	0.021	-
HC-111	6/17/2015	2.7	NA	8.9	1.7	0.76	0.040 U	0.060 U	0.060 U	-
HC-111	9/22/2015	1.3 J	NA	3.7	0.25 U	0.380	- R	- R	- R	-
HC-111	12/22/2015	0.10 U	NA	0.70	0.40 U	0.018	0.0010 U	0.0010 U	0.0030 U	-
HC-111	3/21/2016	1.46	NA	8.23	0.642 J	0.276	0.0065	0.569a	0.159	-
HC-111	6/22/2016	2.10 J	NA	2.50 J	0.48 UJ	0.392	0.0022 J	0.128	0.0481	-
HC-111	9/21/2016	2.09 J	NA	5.55	0.387 J	0.385	0.0025 J	0.0188	0.0028 J	-
HC-111	12/8/2016	0.420	NA	8.7	0.12 U	0.130	0.00045 J	0.0075	0.0035	-
HC-111	3/20/2017	1.100 J	NA	4.9	0.36 J	0.300	0.0034 J	0.110	0.013 J	-
HC-111	6/21/2017	2.30	NA	6.1	0.45	0.380	0.0095	0.380	0.200	-
HC-111	9/19/2017	2.2	NA	8.5	0.51	0.370	0.0078	0.028	0.0071	-
HC-111	12/12/2017	1.2	NA	5.2	0.61	0.190	0.0033	0.051	0.0049	-
HC-111	3/19/2018	2.7	NA	5.3	0.39	0.350	0.0095	0.270	0.0700	-
HC-111	6/19/2018	1.2	NA	5.6	0.46	0.120	0.0040	0.033	0.0065	-
HC-111	9/17/2018	1.7	NA	6.3	0.61	0.230	0.0071	0.022	0.0039	-
HC-111	12/10/2018	1.2	NA	12	2.70	0.084	0.0040	0.020	0.0030	-
HC-111	3/13/2019	1.9 J	NA	4.5	0.52	0.150	0.0092 J	0.060	0.0091 J	-
HC-111	6/17/2019	2.2	NA	9.2	0.87	0.120	0.0055	0.096	0.0028 J	-
HC-111	9/11/2019	1.2 J	NA	1.4	0.12 U	0.095	0.0065 J	0.046	0.0031 U	-
HC-111	12/11/2019	2.3	NA	9.1	0.67	0.130	0.0072	0.056	0.0031	-
HC-111	3/24/2020	0.5	NA	5.4	0.91	0.052	0.0012	0.001	0.0029 J	-
HC-111	6/24/2020	1.9 J	NA	5.1	0.49	0.065	0.0078	0.078	0.0170	-
HC-111	9/22/2020	1.3	NA	5.5	0.50	0.030	0.0035	0.007	0.0031	-
HC-111	12/14/2020	1.7	NA	6.1	0.59	0.052	0.0032	0.003	0.0033	-
HC-111	3/30/2021	0.6	NA	3.6	0.58	0.027	0.0016	0.016	0.0021 J	-
HC-111	6/23/2021	1.7	NA	3.8	0.38 J	0.035	0.0042	0.030	0.0027 J	-
HC-111	9/14/2021	1.5	NA	4.6	0.41	0.026	0.0053	0.005	0.0022 J	-
HC-111	12/6/2021	1.0	NA	8.7	2.10	0.017	0.0024	0.005	0.0018 J	-
HC-111	2/8/2022	1.8	NA	3.0	0.33 J	0.049	0.0022	0.350	0.0120	-
HC-111	5/3/2022	2.8	NA	6.8	1.4	0.039	0.0038	0.330	0.0230	-
HC-111	8/3/2022	2.5 J	NA	5.2	0.49	0.025 J	0.0039 J	0.092 J	0.0049 J	-
HC-111	4/12/2023	1.1	NA	2.2	0.15 J	0.00920	0.00300	0.0049	0.0025 J	-
HC-111	10/5/2023	2.3	NA	3.5	0.40 J	0.01300 J	0.0042 J	0.0077 J	0.0029 J	-
RW-2	1/27/2004	2.85	NA	NA	-	0.183	0.00209	0.0564	0.0130	-
RW-2	5/6/2004	1.57	NA	NA	-	0.0462	0.000734	0.00688	0.00249	-
RW-2	8/11/2004	0.860	NA	NA	-	0.0205	0.000895	0.00164	0.00250	-
RW-2	10/29/2004	1.11 J	NA	NA	-	0.00548 J	0.000500 U	0.000922 J	0.00227 J	-
RW-2	2/9/2005	1.47 J	NA	NA	-	0.0739 J	0.000718 J	0.00519 J	0.00340 J	-
RW-2	5/10/2005	1.81	NA	NA	-	0.125	0.00170	0.0101	0.00383	-
RW-2	8/5/2005	2.51 J	NA	0.387	-	0.0449 J	0.00108 J	0.00369 J	0.00329 J	-
RW-2	11/9/2005	1.06	NA	0.253	-	0.00407	0.000556	0.000593	0.00200	-
RW-2	2/8/2006	1.17	NA	0.236 U	-	0.0347	0.000500 U	0.00402	0.00140	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RW-2	5/3/2006	0.619	NA	0.250 U	-	0.00907	0.000500 U	0.000512	0.00100 U	-
RW-2	8/1/2006	0.463	NA	0.236 U	-	0.00317	0.00200 U	0.00100 U	0.00150 U	-
RW-2	12/21/2006	0.736 J	NA	0.245 U	0.629	0.0148	0.000500 U	0.000986	0.00106	-
RW-2	2/8/2007	0.947 J	NA	0.236 U	0.472 U	0.0248	0.000500 U	0.00189	0.00100 U	-
RW-2	5/9/2007	0.866 J	NA	0.245 U	0.490 U	0.0178	0.000500 U	0.00228	0.00100 U	-
RW-2	8/1/2007	0.602	NA	0.278 U	0.556 U	0.00530	0.000500 U	0.000802	0.00100 U	-
RW-2	11/6/2007	2.13 J	NA	0.318	0.510 U	0.0254 J	0.000678 J	0.00508 J	0.00181 J	-
RW-2	2/13/2008	0.695	NA	0.236 U	0.472 U	0.00644	0.000500 U	0.000937	0.00100 U	-
RW-2	5/5/2008	3.02	NA	0.420	0.476 U	0.0425	0.00130	0.0132	0.00118	-
RW-2	8/14/2008	0.479	NA	0.243 U	0.485 U	0.00152	0.000500 U	0.00183	0.00100 U	-
RW-2	11/13/2008	1.26	NA	0.747	0.547	0.00161	0.000500 U	0.00174	0.00137	-
RW-2	2/26/2009	0.426	NA	4.55 J	1.60 J	0.00232	0.000500 U	0.000500 U	0.00100 U	-
RW-2	5/14/2009	0.517 J	NA	0.238 U	0.476 U	0.00506 J	0.000500 U	0.000634 J	0.00100 U	-
RW-2	8/12/2009	1.40	NA	0.450	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	11/11/2009	1.60	NA	0.520	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
RW-2	03/25/2010	0.130	NA	0.120 U	0.610	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	06/08/2010	0.640	NA	0.710 Y	0.610	0.00170	0.00100 U	0.00120	0.00200 U	-
RW-2	09/15/2010	0.610	5.00 U	1.20 Y	2.80	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	12/21/2010	0.250	5.40 U	0.180	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	3/9/2011	0.240	5.20 U	0.200	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	6/15/2011	0.890	5.00 U	0.600	0.240 U	0.00250	0.00100 U	0.00290	0.00200 U	-
RW-2	10/03/2011	0.540	4.80 U	0.776	0.505 U	0.000400 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	12/5/2011	1.10	4.90 U	0.640	0.240 U	0.00100	0.00100 U	0.00240	0.00200 U	-
RW-2	4/9/2012	0.250	5.20 U	0.250	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	6/14/2012	0.960	NA	0.410 J	0.240 UJ	0.00100 U	0.00100 U	0.00370	0.00200 U	-
RW-2	9/12/2012	2.70	NA	1.40	2.00	0.000770 J	0.000550 J	0.00870	0.00200 U	-
RW-2	12/12/2012	0.0630	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RW-2	3/13/2013	1.80	NA	0.950	0.270 U	0.00620	0.00100 U	0.0240	0.00200 U	-
RW-2	6/12/2013	3.20	NA	0.900	0.0470 U	0.00450	0.00100 U	0.0130	0.00200 U	-
RW-2	9/27/2013	2.00	NA	0.810	0.240 U	0.00220	0.00500 U	0.00670	0.0100 U	-
RW-2	12/3/2013	1.8	NA	0.41	0.24 U	0.0012	0.001 U	0.0062	0.002 U	-
RW-2	3/5/2014	0.93	NA	0.45	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RW-2	6/12/2014	0.66	NA	0.5	0.25 U	0.001 U	0.001 U	0.0028	0.002 U	-
RW-2	9/25/2014	1.6 J	NA	1.1	0.25 U	0.001 U	0.001 U	0.0043	0.002 U	-
RW-2	12/16/2014	0.51	NA	0.36	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RW-2	3/24/2015	0.074	NA	0.12	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RW-2	6/17/2015	1.9 J	NA	1.2	0.25 U	0.0021	0.0020 U	0.016	0.0030 U	-
RW-2	9/21/2015	1.8 J	NA	0.88	0.25 U	0.0020 U	0.0020 U	0.0032	0.0020 U	-
RW-2	12/21/2015	0.20	NA	0.47	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RW-2	3/23/2016	0.100 U	NA	0.107	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RW-2	6/22/2016	0.897 J	NA	0.454	0.135 J	0.0026	0.00020 J	0.0047	0.0020 U	-
RW-2	9/22/2016	1.12 J	NA	0.666	0.0634 J	0.00074 J	0.00041 J	0.0030	0.0030 U	-
RW-2	12/7/2016	0.029 J	NA	0.16	0.062 J	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RW-2	3/21/2017	0.150 U	NA	0.11 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RW-2	6/21/2017	0.590	NA	0.49	0.41 UJ	0.00074	0.0010 U	0.0022	0.0030 U	-
RW-2	9/20/2017	0.870	NA	1.0	0.35 J	0.00032 J	0.0010 U	0.0015	0.0030 U	-
RW-2	9/20/2018	0.930	NA	1.3	0.31 J	0.00049	0.0010 U	0.0023	0.0006 J	-
RW-2	9/10/2019	1.200 J	NA	0.8	0.12 U	0.00071 J	0.0004 J	0.0048	0.0003 J	-
RW-2	9/22/2020	0.910	NA	0.8	0.13 U	0.00082	0.0003 J	0.0017	0.0004 U	-
RW-2	9/14/2021	1.200	NA	0.9	0.12 U	0.00110	0.0005 J	0.0035	0.0010 J	-
RW-2	8/1/2022	0.530	NA	0.36	0.13 U	0.00040	0.0003 U	0.0016	0.0004 U	-
RW-2	10/4/2023	1.50	NA	0.8	0.41 U	0.00035 J	0.0004 J	0.0019	0.0006 J	-
RW-5	1/27/2004	6.01	NA	NA	NA	0.339	0.135	0.337	0.477	-
RW-5	5/6/2004	4.09	NA	NA	NA	0.225	0.00596	0.184	0.317	-
RW-5	8/10/2004	2.73 J	NA	NA	NA	0.0570	0.0109	0.0937	0.168	-
RW-5	10/29/2004	2.78 J	NA	NA	NA	0.0287	0.00334	0.0632	0.104	-
RW-5	2/9/2005	6.51 J	NA	NA	NA	0.393	0.0322 J	0.432	0.423	-
RW-5	5/18/2005	NS	NS	NS	NS	NS	NS	NS	NS	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RW-5R	8/5/2005	40.4	NA	0.458	-	1.04	0.0639	2.34	8.13 J	-
RW-5R	11/8/2005	19.6	NA	2.01	-	0.805	0.0137	1.19	2.58	-
RW-5R	2/8/2006	8.74	NA	0.371	-	0.784	0.00830	0.0845	0.775	-
RW-5R	5/2/2006	18.9	NA	0.384	-	0.500	0.0141	1.17	2.45	-
RW-5R	8/1/2006	29.1	NA	0.514	-	1.20	0.100 U	2.48	5.21	-
RW-5R	12/19/2006	18.2	NA	0.359	0.481 U	0.823	0.0106	0.948	1.83	-
RW-5R	2/7/2007	8.89 J	NA	0.238 U	0.476 U	0.209	0.0250 U	0.585	0.800	-
RW-5R	5/9/2007	12.9	NA	0.378	0.472 U	0.213	0.0100 U	0.894	1.38	-
RW-5R	8/2/2007	21.7	NA	0.910	0.485 U	0.669	0.00938	1.55	2.12	-
RW-5R	11/7/2007	23.5	NA	1.29 J	0.510 U	0.565	0.0100 U	2.24	1.25	-
RW-5R	2/13/2008	10.3	NA	0.540	0.472 U	0.415	0.00500 U	1.19	0.426	-
RW-5R	5/5/2008	14.6	NA	0.666	0.472 U	0.253	0.0100 U	1.29	0.614	-
RW-5R	8/14/2008	14.0	NA	0.913	0.476 U	0.310	0.0100 U	0.968	0.381	-
RW-5R	11/12/2008	10.5	NA	1.07	0.481 U	0.329	0.0100 U	0.579	0.100	-
RW-5R	2/25/2009	9.95	NA	0.549	0.472 U	0.119	0.00500 U	0.869	0.852	-
RW-5R	5/12/2009	8.95	NA	0.880	0.476 U	0.135	0.00500 U	0.759	0.416	-
RW-5R	8/13/2009	8.10	NA	1.60	0.490	0.120	0.00160	1.30	0.0440	-
RW-5R	11/12/2009	7.30	NA	1.90	0.240 U	0.110	0.00190	0.400	0.0234	-
RW-5R	03/24/2010	1.40	NA	0.510	0.250 U	0.0100	0.00100 U	0.0500	0.00630	-
RW-5R	06/08/2010	4.90	NA	2.00 Y	0.240 U	0.0320	0.00110	0.240	0.0100	-
RW-5R	09/14/2010	3.00	4.70 U	1.80 Y	0.240 U	0.0550	0.00100	0.210	0.00200 U	-
RW-5R	12/16/2010	5.60	4.90 U	1.70	0.240 U	0.0400	0.00140	0.290	0.00200 U	-
RW-5R	3/8/2011	1.30	5.00 U	0.470	0.240 U	0.0150	0.00100 U	0.0680	0.00200 U	-
RW-5R	6/14/2011	2.00	5.20 U	0.660	0.270 U	0.0240	0.00100 U	0.120	0.00200 U	-
RW-5R	10/06/2011	4.58	5.20 U	2.36	0.476 U	0.0388	0.00106	0.140	0.00200 U	-
RW-5R	12/6/2011	6.60	5.00 U	2.20	0.240 U	0.0280	0.00130	0.400	0.00200 U	-
RW-5R	4/2/2012	2.10	5.30 U	1.80	0.930	0.0260	0.00100 U	0.0740	0.00200 U	-
RW-5R	6/14/2012	2.20	NA	0.590	0.240 U	0.0230	0.00100 U	0.120	0.00200 U	-
RW-5R	9/11/2012	3.50	NA	1.20	0.520	0.0300	0.000720 J	0.180	0.00220	-
RW-5R	12/12/2012	3.90 J	NA	1.90	0.240 U	0.0940	0.00140	0.0780	0.00200 U	-
RW-5R	3/13/2013	1.10	NA	0.560	0.270 U	0.00880	0.00100 U	0.0230	0.00200 U	-
RW-5R	6/12/2013	1.50	NA	0.450	0.0640	0.0140	0.00100 U	0.0530	0.00200 U	-
RW-5R	9/24/2013	5.10	NA	1.50	0.270	0.0290	0.00100 U	0.0290	0.00200 U	-
RW-5R	12/2/2013	3.4	NA	0.78	0.24 U	0.019	0.001 U	0.026	0.002 U	-
RW-5R	3/4/2014	2.7	NA	1.4	0.41	0.007	0.001 U	0.01	0.002 U	-
RW-5R	6/11/2014	0.65	NA	0.33	0.25 U	0.005 J	0.001 U	0.018 J	0.002 U	-
RW-5R	9/24/2014	4.8 J	NA	1.4	0.28	0.015	0.0015	0.045	0.002 U	-
RW-5R	12/16/2014	6.3 J	NA	2.6	0.42	0.14	0.0013	0.039	0.0020 U	-
RW-5R	3/23/2015	1.0	NA	0.53	0.24 U	0.011	0.0020 U	0.017	0.0030 U	-
RW-5R	6/17/2015	1.9	NA	0.66	0.25 U	0.011	0.0020 U	0.034	0.0030 U	-
RW-5R	9/21/2015	5.6 J	NA	1.2	0.25 U	0.022	0.0020 U	0.020	0.0030 U	-
RW-5R	12/21/2015	3.5	NA	2.5	0.39 U	0.097	0.0012	0.044	0.0030 U	-
RW-5R	3/21/2016	0.498	NA	0.189	0.19 U	0.0014	0.00022 J	0.0081	0.00054 J	-
RW-5R	6/21/2016	0.817 J	NA	0.208	0.0538 J	0.0039	0.00038 J	0.0426	0.0018 J	-
RW-5R	9/21/2016	4.71	NA	0.904	0.0838 J	0.0090	0.00075 J	0.0419	0.00063 J	-
RW-5R	12/6/2016	1.900	NA	0.98	0.12 J	0.0037	0.00052 J	0.0082	0.00074 J	-
RW-5R	3/20/2017	0.450	NA	0.29	0.12 J	0.00040 U	0.0010 U	0.23 J	0.0030 U	-
RW-5R	6/20/2017	0.390	NA	0.31 J	0.13 J	0.00034 J	0.0010 U	0.014	0.00049 J	-
RW-5R	9/19/2017	1.8	NA	0.93	0.43 U	0.0044	0.00060 J	0.0068	0.0030 U	-
RW-5R	12/11/2017	1.4	NA	0.75	0.15 J	0.0006	0.00042 J	0.0012	0.0003 J	-
RW-5R	3/19/2018	0.3	NA	0.32	0.42 U	0.0001 J	0.00100 U	0.0010 U	0.0030 U	-
RW-5R	6/18/2018	0.9	NA	0.52	0.42 U	0.0045	0.00100 U	0.0081	0.0006 J	-
RW-5R	9/18/2018	2.3	NA	1.8	0.59	0.0020	0.00050 J	0.0064	0.0012 J	-
RW-5R	12/10/2018	3.7	NA	2.8	0.82	0.0780	0.00072 J	0.0170	0.0007 J	-
RW-5R	3/12/2019	0.5	NA	0.57	0.31 J	0.0002 J	0.00031 U	0.0002 U	0.0004 U	-
RW-5R	6/18/2019	0.8	NA	0.87	0.16 J	0.0027	0.00031 U	0.0180	0.0006 J	-
RW-5R	9/12/2019	2.1 J	NA	1.8	0.13 U	0.0210	0.00059 J	0.0062	0.0002 J	-
RW-5R	12/11/2019	4.3	NA	2.6	0.25 J	0.0550	0.00091 J	0.0180	0.0010 J	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RW-5R	3/24/2020	0.9	NA	4.9	0.12 J	0.0003 J	0.00031 U	0.0014	0.0004 U	-
RW-5R	6/23/2020	1.3	NA	0.55	0.14 J	0.0010	0.00031 U	0.0043	0.0006 J	-
RW-5R	9/22/2020	3.5	NA	2	0.13 J	0.0064	0.00130	0.0380	0.0009 J	-
RW-5R	12/14/2020	2.8	NA	1.2	0.21 J	0.1300	0.00110	0.0290	0.0020 J	-
RW-5R	3/30/2021	0.2	NA	0.24 J	0.13 J	0.0001 U	0.00031 U	0.0002 U	0.0004 U	-
RW-5R	6/22/2021	1.6	NA	0.83	0.12 U	0.0021	0.00031 U	0.0120	0.0008 J	-
RW-5R	9/14/2021	3.9	NA	2.4	0.13 U	0.0009	0.00062 J	0.0250	0.0008 J	-
RW-5R	12/6/2021	4.6	NA	2.2	0.64	0.0045	0.00031 U	0.0270	0.0011 J	-
RW-5R	2/8/2022	0.7	NA	0.37	0.11 U	0.0003 J	0.00031 U	0.0002 U	0.0004 U	-
RW-5R	5/3/2022	1.7	NA	0.85	0.39 J	0.0005	0.00031 U	0.0049	0.0004 U	-
RW-5R	8/1/2022	2.1	NA	0.90	0.15 J	0.0013	0.00031 U	0.0100	0.0004 U	-
RW-5R	4/11/2023	0.65	NA	0.31	0.11 U	0.000093 U	0.00031 U	0.00032 J	0.00044 U	-
RW-5R	10/4/2023	7.1	NA	2.4	0.13 U	0.0140	0.00067 J	0.02900	0.00044 U	-
RW-8	1/27/2004	3.19	NA	NA	-	0.0954	0.0183	0.170	0.145	-
RW-8	5/6/2004	3.56	NA	NA	-	0.192	0.00941	0.137	0.114	-
RW-8	8/12/2004	7.43	NA	NA	-	0.217	0.0154	0.190	0.142	-
RW-8	10/29/2004	6.29	NA	NA	-	0.249	0.0135	0.159	0.0591	-
RW-8	2/9/2005	3.50 J	NA	NA	-	0.119	0.00924	0.103	0.0322	-
RW-8	5/11/2005	4.01	NA	NA	-	0.215	0.0231	0.0843	0.0577	-
RW-8	8/4/2005	3.97	NA	15.9	-	0.175	0.0166	0.0472	0.00780	-
RW-8	11/9/2005	4.16	NA	19.5	-	0.131	0.0135	0.0175	0.0316	-
RW-8	2/8/2006	5.12	NA	0.238 U	-	0.101	0.00902	0.0443	0.0304	-
RW-8	5/2/2006	3.49	NA	2.97	-	0.133	0.0104	0.0205	0.0251	-
RW-8	8/1/2006	1.68	NA	35.9	-	0.121	0.00407	0.00534	0.00701	-
RW-8	12/19/2006	3.32 J	NA	3.59	0.481 U	0.152	0.0123	0.0219	0.0198	-
RW-8	2/7/2007	2.15 J	NA	4.88	0.549 U	0.130	0.00956	0.0145	0.0174	-
RW-8	5/9/2007	2.62	NA	0.602	0.472 U	0.246	0.00988	0.0213	0.0333	-
RW-8	8/2/2007	2.37	NA	2.60	4.81 U	0.196	0.00728	0.0101	0.0182	-
RW-8	11/7/2007	2.12	NA	7.91	0.963	0.100	0.00782	0.00770	0.0137	-
RW-8	2/13/2008	2.91	NA	12.2	0.929	0.0981	0.0101	0.0146	0.0204	-
RW-8	5/5/2008	3.07	NA	3.15	0.472 U	0.115	0.0141	0.0164	0.0284	-
RW-8	8/15/2008	2.59	NA	4.08	0.481	0.0819	0.0117	0.0107	0.0246	-
RW-8	11/13/2008	1.84	NA	5.40	0.472 U	0.0834	0.00757	0.000500 U	0.0129	-
RW-8	2/25/2009	3.04 J	NA	1.15	0.472 U	0.0778 J	0.00688 J	0.0279 J	0.0227 J	-
RW-8	5/14/2009	2.77 J	NA	1.19	0.476 U	0.0773 J	0.00827 J	0.0311 J	0.0213 J	-
RW-8	8/12/2009	3.30	NA	1.50	0.240 U	0.0640	0.00470	0.0170	0.0173	-
RW-8	11/11/2009	3.80	NA	3.50	0.570	0.0580	0.00560	0.0120	0.0150	-
RW-8	03/24/2010	0.620	NA	2.40	0.250 U	0.00120	0.00100 U	0.00100 U	0.00200 U	-
RW-8	06/08/2010	0.320	NA	3.80 Y	0.710	0.00200	0.00100 U	0.00100 U	0.00200 U	-
RW-8	09/15/2010	0.860	5.00 U	2.20	0.290	0.0120	0.00100 U	0.00280	0.00200 U	-
RW-8	12/16/2010	0.490	5.10 U	2.10	0.470	0.00900	0.00100 U	0.00220	0.00200 U	-
RW-8	3/8/2011	1.30	5.20 U	1.00	0.240 U	0.0180	0.00100 U	0.0200	0.00780	-
RW-8	6/14/2011	1.40	4.90 U	1.90	0.250 U	0.0230	0.00140	0.0300	0.00800	-
RW-8	10/05/2011	0.848	5.20 U	43.8	3.91	0.0188	0.00250 U	0.00250 U	0.00500 U	-
RW-8	12/7/2011	1.10	5.30 U	1.90	0.240 U	0.0170	0.00100 U	0.00100 U	0.00210	-
RW-8	4/9/2012	0.860	5.20 U	0.990	0.240 U	0.0110	0.00100 U	0.00120	0.00200 U	-
RW-8	6/13/2012	2.30 J	NA	2.70 J	0.480 J	0.0250 J	0.00220 J	0.00540 J	0.00200 J	-
RW-8	9/11/2012	2.90	NA	1.80	0.600	0.0260	0.00300	0.00810	0.00350	-
RW-8	12/12/2012	1.00	NA	1.10	0.240 U	0.0270	0.00190	0.00150	0.00200	-
RW-8	3/13/2013	1.40	NA	2.00	0.270 U	0.0230	0.00240	0.00420	0.00240	-
RW-8	6/12/2013	3.10	NA	2.10	0.140	0.0250	0.00320	0.0120	0.00370	-
RW-8	9/24/2013	1.80	NA	1.60	0.240 U	0.0240	0.00230	0.00180	0.00200	-
RW-8	12/3/2013	1.5	NA	0.87	0.24 U	0.0190	0.0021	0.0026	0.0026	-
RW-8	3/4/2014	2.0	NA	2.1	0.42	0.0150	0.0016	0.0030	0.0028	-
RW-8	6/12/2014	2.0 J	NA	2.1	0.50	0.0076	0.0012	0.0035	0.0020	-
RW-8	9/25/2014	1.4 J	NA	1.7	0.78	0.0180	0.0014	0.0011	0.0020 U	-
RW-8	12/16/2014	1.8 J	NA	2.5	0.76	0.022	0.0021	0.0030	0.0030	-
RW-8	3/24/2015	1.8	NA	2.3	0.70	0.0088	0.002 U	0.0032	0.0030 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RW-8	6/17/2015	1.5 J	NA	5.3	1.4	0.012	0.0020 U	0.0080	0.0032	-
RW-8	9/24/2015	2.6 J	NA	2.4	0.25 U	0.015	0.0020 U	0.0037	0.0030 U	-
RW-8	12/21/2015	1.3	NA	2.2	0.41	0.020	0.0018	0.0016	0.0036 U	-
RW-8	3/21/2016	0.933	NA	1.67	0.441	0.0056	0.0050 U	0.0050 U	0.010 U	-
RW-8	6/21/2016	0.831 J	NA	1.03	0.197 J	0.0076 J	0.0050 U	0.0050 U	0.010 U	-
RW-8	9/22/2016	0.633	NA	1.97	0.325	0.0109	0.0011	0.0014	0.0025 J	-
RW-8	12/6/2016	1.200	NA	2.3	0.34	0.011	0.00096 J	0.0011	0.0024 J	-
RW-8	3/20/2017	1.500	NA	2.5	0.35 J	0.0088	0.0010	0.0027	0.0026 J	-
RW-8	6/21/2017	1.20	NA	1.8	0.33 J	0.0062	0.00084 J	0.0058	0.0025 J	-
RW-8	9/20/2017	1.60	NA	2.9	0.46	0.0090	0.0011	0.0033	0.0028 J	-
RW-8	12/11/2017	1.70	NA	2.8	0.48	0.0057	0.0008 J	0.0013	0.0019 J	-
RW-8	3/20/2018	1.20	NA	2	0.32 J	0.0034	0.0005 J	0.0009 J	0.0012 J	-
RW-8	6/18/2018	1.20	NA	1.8	0.23 J	0.0063	0.0008 J	0.0012	0.0016 J	-
RW-8	9/20/2018	0.51	NA	2.9	1.2	0.0024	0.0010 U	0.0010 U	0.0018 J	-
RW-8	12/10/2018	0.78	NA	3.6	0.91	0.0100	0.0010	0.0007 J	0.0027 J	-
RW-8	3/12/2019	0.63	NA	3	1.2	0.0035	0.0006 J	0.0003 J	0.0013 J	-
RW-8	6/18/2019	0.82	NA	3.3	1.1	0.0050	0.0007 J	0.0006 J	0.0014 J	-
RW-8	9/10/2019	0.81 J	NA	1.3	0.14 J	0.0044	0.0005 U	0.0009 J	0.0012 U	-
RW-8	12/10/2019	0.68	NA	3.5	0.54	0.0079	0.0009 J	0.0004 J	0.0026 J	-
RW-8	3/23/2020	0.44	NA	2.6	0.49	0.0007	0.0003 U	0.0004 J	0.0004 U	-
RW-8	6/23/2020	0.87	NA	1.8	0.4 J	0.0012	0.0003 U	0.0006 J	0.0004 U	-
RW-8	9/22/2020	0.45	NA	1.5	0.36 J	0.0013	0.0003 U	0.0003 J	0.0004 U	-
RW-8	12/15/2020	0.19	NA	0.83	0.23 J	0.0001 U	0.0003 U	0.0002 U	0.0004 U	-
RW-8	3/29/2021	0.16	NA	1.0	0.4 U	0.0001 U	0.0003 U	0.0002 U	0.0004 U	-
RW-8	6/23/2021	0.39	NA	1.3	0.28 J	0.0013	0.0003 U	0.0002 J	0.0004 U	-
RW-8	9/14/2021	0.59	NA	1.8	0.28 J	0.0033	0.0004 J	0.0005 J	0.0009 J	-
RW-8	12/6/2021	0.13 J	NA	2.1	1.2	0.0001 U	0.0003 U	0.0002 U	0.0004 U	-
RW-8	2/8/2022	0.13 J	NA	0.61	0.17 J	0.0001 U	0.0003 U	0.0002 U	0.0004 U	-
RW-8	5/3/2022	0.12 J	NA	0.75	0.45	0.0001 U	0.0003 U	0.0002 U	0.0004 U	-
RW-8	8/2/2022	0.23	NA	0.81	0.24 J	0.0001 U	0.0003 U	0.0002 U	0.0004 U	-
RW-8	4/11/2023	0.031 U	NA	0.45	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RW-8	10/4/2023	0.15 U	NA	1.1	0.42 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RW-12	1/27/2004	0.0763	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	5/6/2004	0.113	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	8/11/2004	0.341	NA	NA	-	0.00142	0.000500 U	0.000997	0.00261	-
RW-12	10/29/2004	0.216	NA	NA	-	0.000753	0.000500 U	0.000500 U	0.00106	-
RW-12	2/10/2005	0.0746	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	5/10/2005	0.0786	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	8/4/2005	0.210	NA	4.23	-	0.0290	0.000500 U	0.000500 U	0.00100 U	-
RW-12	11/10/2005	0.259	NA	2.75	-	0.000504	0.000500 U	0.000500 U	0.00145	-
RW-12	2/8/2006	0.0557	NA	0.345	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	5/3/2006	0.200	NA	2.20	-	0.000838	0.000500 U	0.000500 U	0.00131	-
RW-12	8/8/2006	0.528	NA	NA	-	0.000500 U	0.000500 U	0.000886	0.00147	-
RW-12	12/20/2006	0.0626	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	2/7/2007	0.0693 J	NA	0.289	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	5/8/2007	0.106	NA	2.39	1.07	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	8/1/2007	0.132	NA	2.29	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	11/6/2007	0.0500 U	NA	1.03	0.874	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	2/13/2008	0.110	NA	1.90	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	5/5/2008	0.0500 U	NA	0.584	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	8/14/2008	0.0905	NA	2.93	0.556 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	11/13/2008	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RW-12	2/27/2009	0.0575	NA	0.414	0.476 U	0.000500 U	0.000500 U	0.00494	0.00492	-
RW-12	5/12/2009	0.0655	NA	0.654	0.472 U	0.000500 U	0.000500 U	0.531	0.0787	-
RW-12	8/12/2009	0.210	NA	0.250	1.60	0.00100 U	0.00100 U	0.00980	0.00680	-
RW-12	11/11/2009	0.0960	NA	0.160	0.240 U	0.00100 U	0.00100 U	0.00180	0.00100 U	-
RW-12	06/08/2010	0.0500 U	NA	0.470 Y	0.320	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-

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T-2	12/20/2010	0.0500 U	4.80 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	6/14/2011	1.00	5.10 U	0.490	0.240 U	0.00100 U	0.00100 U	0.00190	0.00200 U	-
T-2	10/05/2011	0.357	5.10 U	0.196	0.500 U	0.000400 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	12/5/2011	0.460	5.00 U	0.250	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	4/4/2012	0.780	5.40 U	0.450	0.240	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	6/13/2012	0.910 J	NA	0.430 J	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
T-2	9/12/2012	1.10	NA	0.610	0.800	0.000300 J	0.000180 J	0.000420 J	0.00200 U	-
T-2	12/13/2012	0.120	NA	0.130	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	3/12/2013	0.620	NA	0.240	0.340	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	6/10/2013	0.730	NA	0.410	0.210	0.00100 U	0.00100 U	0.00250	0.00200 U	-
T-2	9/24/2013	0.660	NA	0.250	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-2	12/3/2013	0.21	NA	0.12	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
T-2	3/4/2014	0.47	NA	0.30	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-2	6/10/2014	1.0 J	NA	0.48	0.25 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-2	9/22/2014	0.44	NA	0.41	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-2	12/16/2014	0.28	NA	0.22	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-2	3/26/2015	0.25	NA	0.13	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
T-2	6/16/2015	0.38	NA	0.31	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
T-2	9/21/2015	0.61	NA	0.26	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
T-2	12/22/2015	0.21	NA	0.33	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	3/21/2016	0.0752 J	NA	0.059 J	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-2	6/21/2016	0.581 J	NA	0.184	0.0369 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-2	9/21/2016	0.588	NA	0.238	0.0362 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	12/7/2016	0.160	NA	0.17	0.063 J	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	3/21/2017	0.110 J	NA	0.13 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	6/21/2017	0.250 J	NA	0.21 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	9/25/2017	0.130 J	NA	0.17 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	12/11/2017	0.140 J	NA	0.20 J	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	3/20/2018	0.130 J	NA	0.28	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	6/18/2018	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	9/17/2018	0.210	NA	0.18 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
T-2	12/11/2018	0.070 U	NA	0.16 J	0.16 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	3/12/2019	0.070 U	NA	0.22	0.17 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	6/17/2019	0.099 J	NA	0.22 J	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	9/11/2019	0.120	NA	0.21 J	0.14 U	0.00014 J	0.0001 U	0.0001 U	0.0003 U	-
T-2	12/10/2019	0.070 U	NA	0.24 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0002 U	-
T-2	3/24/2020	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	6/23/2020	0.140 J	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	9/22/2020	0.110 J	NA	0.13 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	12/14/2020	0.140 J	NA	0.19 J	0.17 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	3/29/2021	0.070 U	NA	0.16 J	0.43 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	6/22/2021	0.290	NA	0.17 J	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	9/13/2021	0.079 J	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	12/6/2021	0.070 U	NA	0.21 J	0.28 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	2/8/2022	0.070 U	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	5/3/2022	0.540	NA	0.26	0.21 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	8/2/2022	0.110 J	NA	0.19 J	0.14 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
T-2	4/11/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
T-2	10/5/2023	0.150 U	NA	0.16 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
T-3	8/27/2003	12.6	NA	NA	-	0.0170	0.0200 U	0.664	0.867	-
T-3	10/31/2003	7.01	NA	NA	-	0.00500 U	0.00500 U	0.596	0.554	-
T-3	1/27/2004	7.42	NA	NA	-	0.00815	0.00299	0.503	0.501	-
T-3	5/5/2004	5.40	NA	NA	-	0.00835	0.00250 U	0.328	0.298	-
T-3	8/12/2004	4.62	NA	NA	-	0.00647	0.00250 U	0.344	0.268	-
T-3	10/28/2004	1.49 J	NA	NA	-	0.00857 J	0.00194 J	0.165 J	0.146 J	-
T-3	2/9/2005	3.31 J	NA	NA	-	0.00424	0.00103 J	0.306	0.288	-

Appendix A
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
T-3	5/10/2005	5.06	NA	NA	-	0.00673	0.00250 U	0.463	0.463	-
T-3	8/3/2005	4.72 J	NA	0.469	-	0.00422 J	0.00250 UJ	0.330 J	0.333 J	-
T-3	11/8/2005	3.76	NA	0.420	-	0.00290	0.00250 U	0.249	0.284	-
T-3	2/7/2006	4.30	NA	0.307	-	0.00250 U	0.00250 U	0.310	0.317	-
T-3	5/2/2006	3.10 J	NA	0.701	-	0.00523 J	0.00250 U	0.128	0.157	-
T-3	8/1/2006	3.37	NA	0.442	-	0.0167	0.0200 U	0.210	0.204	-
T-3	12/19/2006	2.31 J	NA	0.404	0.495 U	0.00476	0.00250 U	0.0940	0.0518	-
T-3	2/7/2007	1.90 J	NA	0.322	0.476 U	0.00734 J	0.00177 J	0.0372 J	0.0211 J	-
T-3	5/9/2007	2.54 J	NA	4.38	0.623	0.0212 J	0.00250 U	0.0748 J	0.0185 J	-
T-3	8/2/2007	2.81	NA	0.612	0.476 U	0.0206	0.00500 U	0.112	0.0714	-
T-3	11/7/2007	1.96 J	NA	0.468	0.472 U	0.00701 J	0.000591 J	0.0564 J	0.0135 J	-
T-3	2/14/2008	2.14	NA	0.432	0.472 U	0.00727	0.00149	0.0590	0.0190	-
T-3	5/5/2008	1.92	NA	0.410	0.472 U	0.0101	0.00235	0.0212	0.00900	-
T-3	8/15/2008	1.30	NA	0.555	0.472 U	0.00489	0.000662	0.0138	0.00444	-
T-3	11/12/2008	1.36	NA	0.298	0.476 U	0.00454	0.000987	0.0147	0.00610	-
T-3	2/25/2009	1.89 J	NA	0.354	0.476 U	0.0455	0.00250 U	0.151	0.0348	-
T-3	5/13/2009	4.01 J	NA	0.556	0.476 U	0.0700 J	0.00193 J	0.531 J	0.0787 J	-
T-3	8/13/2009	5.10	NA	1.50	0.250 U	0.0450	0.00330	0.200	0.00200 U	-
T-3	11/12/2009	1.60	NA	0.570	0.240 U	0.00390	0.00100 U	0.0310	0.00100 U	-
T-3	03/24/2010	5.10	NA	1.40	0.240 U	0.0420	0.00210	0.890	0.0505	-
T-3	06/08/2010	6.00	NA	2.80 Y	1.60	0.0540	0.00260	0.660	0.00120	-
T-3	6/14/2011	3.20	5.00	1.30	0.250 U	0.0130	0.00110	0.0980	0.00200 U	-
T-3	10/06/2011	0.183	5.60 U	0.727	0.490 U	0.00816	0.000500 U	0.0117	0.00100 U	-
T-3	12/7/2011	0.520	5.20 U	0.320	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-3	4/2/2012	0.280	5.30 U	0.570	0.340	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-3	6/13/2012	0.720 J	NA	0.580 J	0.240 UJ	0.00100 J	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
T-3	9/11/2012	0.330	NA	0.370	1.00	0.000210 J	0.00100 U	0.000280 J	0.00200 U	-
T-3	12/12/2012	0.0620	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-3	3/13/2013	0.570	NA	0.410	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-3	6/11/2013	0.700	NA	0.400	0.0490 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
T-3	9/24/2013	0.800	NA	0.410	0.240 U	0.00100 U	0.00100 U	0.00160	0.00200 U	-
T-3	12/2/2013	1.6	NA	0.49	0.24 U	0.001 U	0.001 U	0.0017	0.002 U	-
T-3	3/5/2014	0.42	NA	0.28	0.24 U	0.001 U	0.001 U	0.0012	0.002 U	-
T-3	6/12/2014	1.2 J	NA	1.2	0.42	0.0028	0.001 U	0.0013	0.002 U	-
T-3	9/24/2014	1.2 J	NA	0.56	0.24 U	0.001 U	0.0013	0.001 U	0.002 U	-
T-3	12/16/2014	0.65 J	NA	0.49	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
T-3	3/23/2015	1.2	NA	0.86	0.28	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
T-3	6/17/2015	0.27	NA	0.28	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
T-3	9/21/2015	0.25	NA	0.15	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
T-3	12/21/2015	0.51	NA	0.47	0.38 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
T-3	3/21/2016	0.471	NA	0.641	0.213	0.0016 J	0.0050 U	0.0050 U	0.010 U	-
T-3	6/21/2016	0.414 J	NA	0.270	0.0752 J	0.0044 J	0.0050 U	0.0050 U	0.010 U	-
T-3	9/19/2016	0.482	NA	0.267	0.0376 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
T-3	12/7/2016	0.610	NA	0.43 B	0.10 JB	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
T-3	3/20/2017	0.390	NA	0.61	0.17 J	0.00023 J	0.0010 U	0.0010 U	0.0030 U	-
T-3	6/20/2017	1.10	NA	1.3 J	0.32 J	0.032	0.00048 J	0.00056 J	0.00080 J	-
T-3	9/19/2017	1.7	NA	1.2	0.16 J	0.023	0.00037 J	0.00078 J	0.00076 J	-
T-3	3/20/2018	1.0	NA	1.1	0.25 J	0.002	0.00100 U	0.00026 J	0.00300 U	-
T-3	9/20/2018	0.9	NA	0.73	0.18 J	0.000 J	0.00100 U	0.00028 J	0.00100 J	-
T-3	3/12/2019	0.5	NA	0.61	0.38 J	0.000 U	0.00031 U	0.00020 U	0.00044 U	-
T-3	9/10/2019	0.4 J	NA	0.43	0.14 U	0.000 U	0.00013 U	0.00014 U	0.00031 U	-
T-3	3/23/2020	0.8	NA	0.77	0.28 J	0.000 J	0.00031 U	0.00020 U	0.00044 U	-
T-3	9/12/2020	0.8	NA	0.75	0.13 U	0.004	0.00031 U	0.00140	0.00074 J	-
T-3	3/29/2021	1.1	NA	0.71	0.41 U	0.001	0.00042 J	0.00270	0.00044 U	-
T-3	9/14/2021	0.8	NA	0.4	0.12 U	0.000 J	0.00031 U	0.00033 J	0.00044 U	-
T-3	2/8/2022	0.5	NA	0.36	0.12 J	0.000 U	0.00031 U	0.00020 U	0.00044 U	-
T-3	8/2/2022	0.3	NA	0.24	0.12 U	0.000 U	0.00031 U	0.00020 U	0.00044 U	-
T-3	4/11/2023	0.10 J	NA	0.19 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
T-3	10/3/2023	0.15 U	NA	0.43	0.32 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-

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FW-15	6/16/1993	19.0	NA	NA	-	0.130	0.310	0.730	1.70	-
FW-15	9/16/1993	12.0	NA	NA	-	0.0210	0.160	0.490	1.00	-
FW-15	12/15/1993	27.0	NA	NA	-	0.160	2.90	0.630	3.80	-
FW-15	2/1/1994	45.0	NA	NA	-	ND	0.810	1.10	5.60	-
FW-15	6/21/1994	13.0	NA	NA	-	0.00890	0.0360	0.220	0.900	-
FW-15	8/18/1994	12.0	NA	NA	-	0.0130	0.0110	0.140	0.620	-
FW-15	12/6/1994	2.00	NA	NA	-	0.00160	ND	0.0110	0.0480	-
FW-15	2/21/1995	6.90	NA	NA	-	0.00440	0.000900	0.00110	0.0530	-
FW-15	6/21/1995	0.00290	NA	NA	-	0.0400	0.00250	0.00470	0.0120	-
FW-15	9/18/1995	2.10	NA	NA	-	0.00580	0.00180	0.00290	0.00300	-
FW-15	12/11/1995	1.90	NA	NA	-	0.000910	0.000550	0.00120	0.00300	-
FW-15	3/6/1996	2.00	NA	NA	-	0.000660	0.00320	0.0110	0.00370	-
FW-15	6/4/1996	0.629	NA	NA	-	0.0176	0.00564	0.747	0.518	-
FW-15	8/22/1996	0.425	NA	NA	-	0.00120	0.000590	0.000580	0.00230	-
FW-15	12/4/1996	0.323	NA	NA	-	0.000500 U	0.000630	0.000510	0.00100 U	-
FW-15	2/24/1997	0.466	NA	NA	-	0.0450	0.000760	0.000770	0.00100	-
FW-15	5/22/1997	0.342	NA	NA	-	0.00320	0.000600	0.000500 U	0.00100 U	-
FW-15	8/12/1997	0.160	NA	NA	-	0.00100	0.000600	0.000600	0.00200	-
FW-15	12/5/1997	0.430	14.0 U	NA	-	0.00300	0.000900	0.000500 U	0.00200	-
FW-15	3/3/1998	0.130	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00200	-
FW-15	6/9/1998	0.0710	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	9/4/1998	0.150	5.00 U	NA	-	0.000500 U	0.00300 U	0.000500 U	0.00200 U	-
FW-15	12/3/1998	0.163	14.0 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00300 U	-
FW-15	3/5/1999	0.110	5.00 U	NA	-	0.00300	0.000500 U	0.000500 U	0.00100 U	-
FW-15	6/10/1999	0.250 U	4.00 U	NA	-	0.00100 U	0.00400	0.00100 U	0.00300 U	-
FW-15	8/25/1999	0.150	5.40	NA	-	0.000200	0.00400	0.000600	0.00180	-
FW-15	11/22/1999	0.140	6.90	NA	-	0.000400	0.00700	0.000500	0.00100	-
FW-15	2/16/2000	0.0670	5.10	NA	-	0.000200 U	0.00230	0.000200	0.000810	-
FW-15	5/17/2000	0.0640	3.60	NA	-	0.000200 U	0.00280	0.000300	0.000810	-
FW-15	8/16/2000	0.250 U	8.40 U	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-
FW-15	11/15/2000	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	2/13/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	5/8/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	8/8/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	11/6/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	2/18/2002	0.0500	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	8/20/2002	0.0500 U	0.0500 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	11/19/2002	0.0500 U	7.80	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	1/28/2003	0.0500 U	4.90 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	4/29/2003	0.0500 U	5.05 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	8/26/2003	0.100 U	5.32 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
FW-15	11/5/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	1/29/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	5/6/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	8/11/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	10/28/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-15	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	8/3/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-15	11/8/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	2/6/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	8/2/2006	0.100 U	5.00 U	0.250 U	-	0.000500 U	0.00200 U	0.00100 U	-0.99850 U	-
FW-15	12/20/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	2/7/2007	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	5/8/2007	NS	NS	NS	-	NS	NS	NS	NS	-
FW-15	8/1/2007	0.0500 U	4.95 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-

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FW-15	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-15	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-15	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-15	8/13/2008	0.0500 U	5.21 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-15	11/10/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-15	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-15	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-15	8/13/2009	0.0670	5.00 U	0.120 U	0.240 U	0.00180	0.00100 U	0.00100 U	0.00200 U	-
FW-15	09/16/2010	0.0500 U	4.70 U		NS	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-15	09/30/2011	0.160 U	4.70 U	0.0980 U	0.490 U	0.000400 U	0.00100 U	0.00100 U	0.00200 U	-
FW-15	9/10/2012	0.0500 U	NA	0.260	2.20	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-15	9/25/2013	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-15	9/23/2014	0.05 U	NA	0.130	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-15	9/23/2015	0.050 U	NA	0.11 U	0.26 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-15	9/20/2016	0.10 U	NA	0.178	0.0884 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
FW-15	9/25/2017	0.15 U	NA	0.16 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
FW-15	9/20/2018	0.15 U	NA	0.41	0.45	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
FW-15	9/11/2019	0.05 U	NA	0.23 U	0.12 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
FW-15	9/12/2020	0.07 U	NA	0.19 J	0.14 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
FW-15	9/14/2021	0.07 U	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
FW-15	8/2/2022	0.03 U	NA	0.12 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
FW-15	10/3/2023	0.031 U	NA	0.31	0.23 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RR-1	8/24/1992	12.0	NA	NA	-	0.570	0.0100	1.10	0.740	-
RR-1	3/23/1993	17.0	NA	NA	-	0.180	U	0.590	1.30	-
RR-1	6/16/1993	12.0	NA	NA	-	0.160	0.0180	0.340	0.710	-
RR-1	9/16/1993	5.00	NA	NA	-	0.110	U	0.250	0.240	-
RR-1	12/15/1993	2.00	NA	NA	-	0.00120	0.000660	0.0130	0.0480	-
RR-1	2/1/1994	6.80	NA	NA	-	0.0360	U	0.110	0.330	-
RR-1	6/21/1994	5.10	NA	NA	-	0.0300	0.00180	0.0510	0.160	-
RR-1	8/18/1994	5.70	NA	NA	-	0.0380	0.00140	0.0780	0.130	-
RR-1	12/6/1994	0.550	NA	NA	-	0.00140	U	0.0110	0.0480	-
RR-1	2/21/1995	13.0	NA	NA	-	0.0440	0.00290	0.610	0.710	-
RR-1	6/21/1995	5.00	NA	NA	-	0.0200	0.00220	0.310	0.180	-
RR-1	9/18/1995	1.20	NA	NA	-	0.00460	0.000600	0.0300	0.00330	-
RR-1	12/11/1995	1.30	NA	NA	-	0.00200	0.000640	0.0360	0.0270	-
RR-1	3/6/1996	16.0	NA	NA	-	0.0460	0.00990	2.00	1.10	-
RR-1	6/4/1996	12.3	NA	NA	-	0.0160	0.00625	0.717	0.506	-
RR-1	8/22/1996	6.30	NA	NA	-	0.00800	0.00340	0.204	0.182	-
RR-1	12/4/1996	5.59	NA	NA	-	0.00600	0.00250	0.153	0.0850	-
RR-1	2/24/1997	8.69	NA	NA	-	0.0160	0.00900	0.616	0.397	-
RR-1	5/22/1997	6.89	NA	NA	-	0.00500 U	0.00550	0.648	0.512	-
RR-1	8/12/1997	2.60	NA	NA	-	0.00400	0.00400	0.150	0.110	-
RR-1	12/5/1997	2.26	14.0 U	NA	-	0.00300	0.00400	0.170	0.130	-
RR-1	3/3/1998	7.80	5.00 U	NA	-	0.00900	0.00700	0.780	0.440	-
RR-1	6/9/1998	2.94	5.00 U	NA	-	0.00982	0.00300 U	0.240	0.191	-
RR-1	9/4/1998	1.23	5.00 U	NA	-	0.00500	0.000600 U	0.0190	0.0210	-
RR-1	12/3/1998	0.327	14.0 U	NA	-	0.00181	0.000639	0.0113	0.00480	-
RR-1	3/5/1999	1.34	5.00 U	NA	-	0.00600	0.00200	0.0920	0.0280	-
RR-1	6/10/1999	2.20	6.30	NA	-	0.00300	0.00700	0.0410	0.0150	-
RR-1	8/25/1999	1.20	5.50	NA	-	0.00100	0.00500	0.0280	0.00400	-
RR-1	11/22/1999	0.830	4.00 U	NA	-	0.00200	0.00600	0.0150	0.00200	-
RR-1	2/16/2000	1.50	3.70	NA	-	0.00500 U	0.00700	0.0460	0.00440	-
RR-1	5/17/2000	0.950	5.30	NA	-	0.00110	0.00710	0.0260	0.00240	-
RR-1	8/16/2000	0.380	8.40 U	NA	-	0.00110 U	0.00100 U	0.00620	0.00300 U	-
RR-1	11/15/2000	0.460	5.00 U	NA	-	0.00100	0.000639 U	0.00700	0.00170	-
RR-1	2/13/2001	0.350	5.00 U	NA	-	0.000500 U	0.000500 U	0.00480	0.00130	-
RR-1	5/8/2001	0.360	5.00 U	NA	-	0.000790	0.000800	0.000860	0.00120	-
RR-1	8/8/2001	0.110	5.00 U	NA	-	0.000600	0.000500 U	0.000500 U	0.00100 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-1	11/6/2001	0.230	5.00 U	NA	-	0.000500 U	0.000500 U	0.000600	0.00100 U	-
RR-1	2/18/2002	0.380	5.00 U	NA	-	0.000500	0.000500 U	0.00200 U	0.00300	-
RR-1	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
RR-1	8/20/2002	0.402 J	5.00 U	NA	-	0.000607 J	0.000500 J	0.000616 J	0.00109 J	-
RR-1	11/19/2002	0.0645	8.00	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	1/28/2003	0.0500 U	4.90 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	4/30/2003	0.323	4.90 U	NA	-	0.000594	0.000500 U	0.00212	0.00854	-
RR-1	8/27/2003	0.171	5.10 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
RR-1	10/31/2003	0.155	5.00 U	NA	-	0.000500 U	0.00132	0.00155	0.00441	-
RR-1	1/29/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	5/5/2004	0.265	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	8/10/2004	0.223	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	10/27/2004	0.218	5.00 U	NA	-	0.000508	0.000855	0.000500 U	0.00132	-
RR-1	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-1	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-1	8/3/2005	0.257	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
RR-1	11/8/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-1	2/6/2006	NS	NS	NS	-	NS	NS	NS	NS	-
RR-1	5/2/2006	0.0500 U	NA	0.243 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	8/2/2006	0.101	5.00 U	0.250 U	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
RR-1	12/19/2006	0.0644	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.0000500 U	0.00100 U	-
RR-1	2/7/2007	0.0607	NA	0.245 U	0.490 U	0.000500 U	0.000500 U	0.0000500 U	0.00100 U	-
RR-1	5/8/2007	0.241	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.0000500 U	0.00100 U	-
RR-1	8/1/2007	0.198	5.00 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.0000500 U	0.00100 U	-
RR-1	11/7/2007	0.152	4.85 U	0.250 U	0.500 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	2/13/2008	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	5/5/2008	0.0869	4.72 U	0.236 U	NS	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	8/13/2008	0.0558	5.21 U	0.245 U	0.490 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	11/13/2008	0.0500 U	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	2/25/2009	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	5/12/2009	0.167	4.76 U	0.238 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	8/13/2009	0.150	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	11/12/2009	0.130	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
RR-1	03/24/2010	0.0500 U	5.00 U	0.120 U	0.260	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	06/08/2010	0.0520	4.70 U	0.210 Y	2.10	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	09/14/2010	0.0500 U	4.70 U	0.150 Y	0.700	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	12/20/2010	0.0500 U	4.90 U	0.120 U	0.310	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	3/8/2011	0.0500 U	9.00	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	6/14/2011	0.0500 U	5.00 U	0.140 U	0.270 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	10/05/2011	0.0800 U	5.10 U	0.0980 U	0.490 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	12/6/2011	0.0500 U	4.80 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	4/6/2012	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	6/13/2012	0.0500 UJ	NA	0.140 J	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
RR-1	9/12/2012	0.0610	NA	0.0880 J	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	12/12/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	3/12/2013	0.140	NA	0.130 U	0.270 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	6/10/2013	0.0670	NA	0.100	0.0470 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-1	9/26/2013	0.0500 U	NA	0.120 U	0.240 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
RR-1	12/3/2013	0.061	NA	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-1	3/3/2014	0.05 U	NA	0.120 U	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-1	6/11/2014	0.055	NA	0.170	0.250 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-1	9/22/2014	0.05 U	NA	0.120	0.240 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-1	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-1	3/23/2015	0.050 U	NA	0.10 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-1	6/16/2015	0.050 U	NA	0.14	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-1	9/22/2015	0.078	NA	0.12	0.25 U	- R	- R	- R	- R	-
RR-1	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-1	12/23/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	3/21/2016	0.100 U	NA	0.0536 J	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-1	6/21/2016	0.164 J	NA	0.124	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-1	9/19/2016	0.10 U	NA	0.136	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	12/6/2016	0.100 U	NA	0.071 J	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	3/22/2017	0.150 U	NA	0.10 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	6/21/2017	0.150 U	NA	0.10 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	9/19/2017	0.150 U	NA	0.17 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	12/12/2017	0.150 U	NA	0.11 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	3/20/2018	0.150 U	NA	0.15 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	6/19/2018	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	9/18/2018	0.150 U	NA	0.15 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-1	12/11/2018	0.070 U	NA	0.27	0.14 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	3/13/2019	0.070 U	NA	0.17 J	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	6/17/2019	0.070 U	NA	0.22	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	9/9/2019	0.076 J	NA	0.27 U	0.13 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
RR-1	12/10/2019	0.070 U	NA	0.19 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	3/23/2020	0.070 U	NA	0.12 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	6/23/2020	0.077 J	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	9/21/2020	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	12/15/2020	0.097 J	NA	0.14 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	3/29/2021	0.130 J	NA	0.20 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	6/23/2021	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	9/14/2021	0.110 J	NA	0.12 J	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	12/7/2021	0.070 U	NA	0.1 U	0.13 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	2/8/2022	0.078 J	NA	0.1 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	5/3/2022	0.031 U	NA	0.12 U	0.14 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	8/1/2022	0.120 J	NA	0.13 J	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-1	4/11/2023	0.031 U	NA	0.12 U	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RR-1	10/3/2023	1.500 U	NA	0.2 J	0.15 J	0.00093 U	0.0031 U	0.0020 U	0.0044 U	-
RR-2	9/16/1993	0.110	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/15/1993	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/1/1994	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	6/21/1994	0.100	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/18/1994	0.120	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/6/1994	U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/21/1995	0.200	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	6/21/1995	U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	9/18/1995	0.0510	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/11/1995	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	3/6/1996	0.0200	NA	NA	-	0.000630	0.00130	0.000500 U	0.00100 U	-
RR-2	6/4/1996	0.0549	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/22/1996	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/4/1996	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/24/1997	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	5/22/1997	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/12/1997	0.0500 U	NA	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/5/1997	0.0500 U	14.0 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	3/3/1998	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	6/9/1998	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	9/4/1998	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/3/1998	0.0500 U	14.0 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	3/5/1999	0.0660	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	6/10/1999	0.250 U	5.30	NA	-	0.00100 U	0.00300	0.00100 U	0.00300 U	-
RR-2	8/25/1999	0.0480 U	4.80	NA	-	0.000200 U	0.000900 U	0.000200 U	0.000600 U	-
RR-2	11/22/1999	0.0480 U	5.20	NA	-	0.000300	0.00100	0.000200 U	0.000600 U	-
RR-2	2/16/2000	0.0480 U	4.10	NA	-	0.000200 U	0.000700	0.000200 U	0.000600 U	-
RR-2	5/17/2000	0.0480 U	3.40	NA	-	0.000200 U	0.000800	0.000200 U	0.000600 U	-
RR-2	8/16/2000	0.250 U	8.40 U	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-2	11/15/2000	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/13/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	5/8/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/8/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	11/6/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/18/2002	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
RR-2	8/20/2002	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	11/19/2002	0.0500 U	4.70 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	1/28/2003	0.0500 U	4.81 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	4/29/2003	0.0500 U	5.26 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/26/2003	0.100 U	5.88	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
RR-2	11/3/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	1/29/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	5/5/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/1/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	10/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-2	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-2	8/3/2005	0.0500 U	5.00 U	NA	-	0.00224	0.000500 U	0.000500 U	-0.99900 U	-
RR-2	11/8/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-2	2/6/2006	NS	NS	NS	-	NS	NS	NS	NS	-
RR-2	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
RR-2	8/3/2006	0.0500 U	5.00 U	0.248 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	12/20/2006	0.0500 U	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/7/2007	0.0500 U	NA	0.243 U	0.485 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	5/8/2007	0.0500	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	7/31/2007	0.0500 U	4.85 U	0.250 U	0.500 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	11/7/2007	0.0500 U	4.72 U	0.248 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/13/2008	0.0500 U	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	5/5/2008	0.0500 U	4.72 U	0.236 U	NS	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	8/13/2008	0.0500 U	5.21 U	0.245 U	0.490 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	11/13/2008	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
RR-2	5/12/2009	0.154	4.72 U	0.236 U	0.472 U	0.000500 U	0.000616	0.00164	0.00120	-
RR-2	8/13/2009	0.110	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	11/11/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
RR-2	03/23/2010	0.290	5.00 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00290	0.00200 U	-
RR-2	06/08/2010	0.130	4.70 U	0.330 Y	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	09/14/2010	0.0500 U	5.20 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	12/20/2010	0.0500 U	4.70 U	0.120 U	0.370	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	3/11/2011	0.110	5.20 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	6/13/2011	0.0630	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	09/27/2011	0.0500 U	5.10 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	12/6/2011	0.0500 U	5.20 U	0.130 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	4/4/2012	0.0500 U	5.30 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	6/14/2012	0.130	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	9/11/2012	0.0500 U	NA	0.120 U	0.100 J	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	12/11/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	3/12/2013	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	6/11/2013	0.0500 U	NA	0.0240 U	0.0480 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	9/25/2013	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-2	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-2	3/5/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-2	6/10/2014	0.053	NA	0.14	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-2	9/23/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-2	12/17/2014	0.050 U	NA	0.12	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-2	3/24/2015	0.050 U	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-2	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
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WELL ID	DATE	CONCENTRATION (mg/L)											
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B		T		E	X	Napthalene	
RR-2	9/24/2015	0.050 U	NA	0.11 U	0.25 U	-	R	-	R	-	R	-	
RR-2	12/22/2015	0.10 U	NA	0.23 U	0.39 U	0.00020	U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-	
RR-2	3/21/2016	0.0654 J	NA	0.088 J	0.20 U	0.0010	U	0.00029 J	0.0025	0.0014 J	-	-	
RR-2	6/22/2016	0.100 U	NA	0.082 J	0.0921 U	0.0010	U	0.0010 U	0.0010 U	0.0020 U	0.000094 U		
RR-2	9/20/2016	0.10 U	NA	0.0538 J	0.095 U	0.0010	U	0.0010 U	0.0010 U	0.0030 U	0.00095 U		
RR-2	12/7/2016	0.100 U	NA	0.12 U	0.20 U	0.00020	U	0.0010 U	0.0010 U	0.0030 U	0.0020 U		
RR-2	3/21/2017	0.099 J	NA	0.21 J	0.40 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.000082 U		
RR-2	6/22/2017	0.150 U	NA	0.24 U	0.40 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.0020 U		
RR-2	9/19/2017	0.150 U	NA	0.090 J	0.40 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.000019 J		
RR-2	12/13/2017	0.085 J	NA	0.140 J	0.40 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.000090 U		
RR-2	3/19/2018	0.150 U	NA	0.120 J	0.38 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.000038 UJ		
RR-2	6/19/2018	0.150 U	NA	0.250 U	0.42 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.000093 U		
RR-2	9/19/2018	0.150 U	NA	0.260 U	0.43 U	0.00040	U	0.0010 U	0.0010 U	0.0030 U	0.000097 U		
RR-2	12/11/2018	0.070 U	NA	0.120 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000057 U		
RR-2	3/12/2019	0.070 U	NA	0.150 J	0.11 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000050 UH		
RR-2	6/18/2019	0.070 U	NA	0.100 U	0.11 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000049 U		
RR-2	9/11/2019	0.048 U	NA	0.100 J	0.11 U	0.00014	U	0.0001 U	0.0001 U	0.0003 U	0.000050 U		
RR-2	12/10/2019	0.070 U	NA	0.120 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000054 U		
RR-2	3/24/2020	0.070 U	NA	0.120 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000060 U		
RR-2	6/24/2020	0.070 U	NA	0.120 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000059 U		
RR-2	9/21/2020	0.070 U	NA	0.100 U	0.11 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000082 J		
RR-2	12/14/2020	0.070 U	NA	0.100 U	0.11 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000049 U		
RR-2	3/30/2021	0.070 U	NA	0.120 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000057 U		
RR-2	6/23/2021	0.070 U	NA	0.110 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000065 U		
RR-2	9/14/2021	0.070 U	NA	0.120 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000064 U		
RR-2	12/7/2021	0.070 U	NA	0.120 U	0.13 J	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000061 U		
RR-2	2/9/2022	0.170	NA	0.13 J	0.11 U	0.00009	U	0.0003 U	0.0006 J	0.0004 U	0.000050 U		
RR-2	5/4/2022	0.088 J	NA	0.12 U	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000060 U		
RR-2	8/2/2022	0.063 J	NA	0.13 J	0.13 U	0.00009	U	0.0003 U	0.0002 U	0.0004 U	0.000059 U		
RR-2	4/12/2023	0.031 U	NA	0.120 U	0.13 U	0.000093	U	0.00031 U	0.00020 U	0.00044 U	0.000055 U		
RR-2	10/4/2023	0.150 U	NA	0.130 J	0.14 U	0.000093	U	0.00031 U	0.00020 U	0.00044 U	0.000061 U		
RR-3	9/16/1993	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	12/15/1993	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	2/1/1994	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	6/21/1994	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	8/18/1994	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	12/6/1994	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	2/21/1995	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	6/21/1995	0.0500 U	NA	NA	-	0.00110		0.000500	U	0.000500	U	0.00100	U
RR-3	9/18/1995	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	12/11/1995	0.0500 U	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	3/6/1996	0.0500 U	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	6/4/1996	0.0500 U	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	8/22/1996	0.0500 U	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	12/4/1996	0.0500 U	NA	NA	-	0.000500	U	0.000500	U	0.000500	U	0.00100	U
RR-3	2/24/1997	0.0600	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	5/22/1997	0.0500 U	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	8/12/1997	0.0500 U	NA	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	12/5/1997	0.0500 U	14.0 U	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	3/3/1998	0.0500 U	5.00 U	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	6/9/1998	0.0500 U	5.00 U	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	9/4/1998	0.0500 U	5.00 U	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	12/3/1998	0.0500 U	14.0 U	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	3/5/1999	0.0500 U	5.00 U	NA	-	0.000500		0.000500	U	0.000500	U	0.00100	U
RR-3	6/10/1999	0.250 U	4.20	NA	-	0.00100		0.00100	U	0.00100	U	0.00300	U
RR-3	8/25/1999	0.0480 U	4.00 U	NA	-	0.000200	U	0.000200	U	0.000200	U	0.000600	U
RR-3	11/22/1999	0.0480 U	4.00 U	NA	-	0.000200	U	0.000600		0.000200	U	0.000600	U

Appendix A
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-3	2/16/2000	0.0480 U	4.80	NA	-	0.000200 U	0.000200 U	0.000200 U	0.000600 U	-
RR-3	5/17/2000	0.0480 U	2.80 U	NA	-	0.000200 U	0.000200 U	0.000200 U	0.000600 U	-
RR-3	8/16/2000	0.250 U	8.40 U	NA	-	0.00100 U	0.00100 U	0.00100 U	0.00300 U	-
RR-3	11/15/2000	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	2/13/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	5/8/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	8/8/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	11/6/2001	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	2/18/2002	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	4/1/2002	NS	NS	NS	-	NS	NS	NS	NS	-
RR-3	8/20/2002	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	11/19/2002	0.0500 U	4.70 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	1/28/2003	0.0500 U	5.05 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	4/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	8/26/2003	0.100 U	5.15 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
RR-3	11/3/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	1/29/2004	0.0500 U	5.00	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	5/5/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	8/11/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	10/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-3	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-3	8/3/2005	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
RR-3	11/8/2005	NS	NS	NS	-	NS	NS	NS	NS	-
RR-3	2/6/2006	NS	NS	NS	-	NS	NS	NS	NS	-
RR-3	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
RR-3	8/3/2006	0.0500 U	5.15 U	0.278 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	12/20/2006	0.0500 U	NA	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	2/7/2007	0.0500 U	NA	0.243 U	0.485 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	5/8/2007	0.0500 U	NA	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	7/31/2007	0.0500 U	4.90 U	0.248 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	11/7/2007	0.0500 U	4.76 U	0.245 U	0.490 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	2/15/2008	0.0500 U	4.95 U	0.248 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	5/5/2008	0.0500 U	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	8/13/2008	0.0500 U	5.21 U	0.243 U	0.485 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	11/13/2008	0.0500 U	4.76 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
RR-3	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
RR-3	5/12/2009	0.0500 U	4.76 U	0.238 U	0.476 U	0.000609	0.000500 U	0.000500 U	0.00100 U	-
RR-3	8/13/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	11/13/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
RR-3	03/23/2010	0.0530	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	06/08/2010	0.0500 U	4.80 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	09/14/2010	0.0500 U	4.60 U	0.130 U	0.820	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	12/20/2010	0.0500 U	5.10 U	0.120 U	0.560	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	3/11/2011	0.0500 U	4.90 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	6/13/2011	0.0500 U	4.90 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	09/27/2011	0.0500 U	4.70 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	12/6/2011	0.0500 U	5.30 U	0.130 U	0.260 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	4/4/2012	0.0500 U	4.70 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	6/14/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	9/11/2012	0.0500 U	NA	0.120 U	0.170 J	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	12/11/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	3/12/2013	0.100	NA	0.120 U	0.230 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	6/11/2013	0.0500 U	NA	0.0240 U	0.0480 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	9/25/2013	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-3	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-3	3/5/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-3	6/10/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-3	9/23/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-3	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-3	3/24/2015	0.050 U	NA	0.10 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-3	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-3	9/24/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-3	12/22/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-3	3/21/2016	0.100 U	NA	0.095 U	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-3	6/22/2016	0.100 U	NA	0.100 U	0.0828 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	0.000015 U
RR-3	9/20/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	0.000095 U
RR-3	12/7/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U
RR-3	3/21/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000083 U
RR-3	6/22/2017	0.087 J	NA	0.25 U	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.0020 U
RR-3	9/20/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000045 J
RR-3	12/13/2017	--	NA	--	--	--	--	--	--	0.000090 U
RR-3	9/19/2018	0.150 U	NA	0.28 U	0.47 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	0.000098 U
RR-3	9/11/2019	0.048 U	NA	0.1 U	0.11 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	0.000050 U
RR-3	9/12/2020	0.070 U	NA	0.1 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000049 U
RR-3	9/14/2021	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000057 U
RR-3	8/2/2022	0.031 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	0.000052 U
RR-3	10/4/2023	0.150 U	NA	0.12 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	0.000051 U
RR-4	6/13/2012	0.0500 UJ	NA	0.120 UJ	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
RR-4	9/12/2012	0.190	NA	0.160	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-4	12/12/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-4	3/14/2013	0.0630	NA	0.130 U	0.260 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-4	6/10/2013	0.0710	NA	0.0540	0.0490 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-4	9/26/2013	0.0500 U	NA	0.120 U	0.240 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
RR-4	12/3/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-4	3/3/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-4	6/11/2014	0.05 U	NA	0.12	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-4	9/22/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-4	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-4	3/23/2015	0.050 U	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-4	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-4	9/23/2015	0.050 U	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-4	12/22/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	3/21/2016	0.100 U	NA	0.095 U	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-4	6/21/2016	0.100 UJ	NA	0.110 UJ	0.110 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-4	9/19/2016	0.10 U	NA	0.0799 J	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	12/6/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	3/22/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	6/21/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	9/18/2017	0.150 U	NA	0.24 U	0.39 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	12/12/2017	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	3/20/2018	0.150 U	NA	0.22 U	0.37 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	6/19/2018	0.150 U	NA	0.24 U	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	9/18/2018	0.150 U	NA	0.13 J	0.39 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-4	12/11/2018	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	3/12/2019	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	6/17/2019	0.070 U	NA	0.21 J	0.33 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	9/9/2019	0.048 U	NA	0.23 U	0.11 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
RR-4	12/10/2019	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	3/23/2020	0.070 U	NA	0.11 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	6/23/2020	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	9/21/2020	0.070 U	NA	0.12 U	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	12/15/2020	0.070 U	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	3/30/2021	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	6/22/2021	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	9/13/2021	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	12/6/2021	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-4	2/8/2022	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	5/3/2022	0.039 J	NA	0.10 U	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	8/1/2022	0.048 J	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-4	4/11/2023	0.031 U	NA	0.10 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RR-4	10/3/2023	1.500 U	NA	0.12 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RR-5	6/14/2012	0.530	NA	0.250	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-5	9/12/2012	1.10	NA	0.470	0.240 U	0.00100 U	0.00100 U	0.000370 J	0.000290 J	-
RR-5	12/13/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-5	3/14/2013	0.320	NA	0.370	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-5	6/11/2013	0.340	NA	0.170	0.0550	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-5	10/8/2013	0.380	NA	0.580	0.250 U	0.00100 U	0.0150	0.00100 U	0.00200 U	-
RR-5	12/2/2013	0.85	NA	0.29	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-5	3/4/2014	0.62	NA	0.34	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-5	6/11/2014	0.51	NA	0.49	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-5	9/22/2014	0.05 U	NA	0.12	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-5	12/17/2014	0.068	NA	0.25	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-5	3/23/2015	0.050 U	NA	0.24	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-5	6/16/2015	0.095	NA	0.15	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-5	9/22/2015	0.26	NA	0.21	0.25 U	- R	- R	- R	- R	-
RR-5	11/19/2015	NA	NA	NA	NA	0.0020 U	0.010	0.0030 U	0.0030 U	-
RR-5	12/22/2015	0.10 U	NA	0.37	0.40 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	3/21/2016	0.100 U	NA	0.092 J	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-5	6/22/2016	0.451	NA	0.342	0.150 J	0.00025 J	0.0010 U	0.00027	0.0020 U	-
RR-5	9/20/2016	0.256	NA	0.325	0.0419 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	12/6/2016	0.100 U	NA	0.17	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	3/21/2017	0.150 U	NA	0.20 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	6/21/2017	0.088 J	NA	0.23 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	9/20/2017	0.520	NA	0.53	0.43 U	0.00014 J	0.0010 U	0.0010 U	0.0030 U	-
RR-5	12/13/2017	0.150 U	NA	0.24	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	3/19/2018	0.150 U	NA	0.19 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	6/18/2018	0.150 U	NA	0.2 J	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	9/19/2018	0.160	NA	0.54	0.13 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-5	12/11/2018	0.130 J	NA	0.75	0.65	0.00009 U	0.0180	0.0002 U	0.0004 U	-
RR-5	3/13/2019	0.070 U	NA	0.32	0.17 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	6/17/2019	0.180	NA	0.29	0.16 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	9/10/2019	0.065 J	NA	0.23 J	0.14 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
RR-5	12/10/2019	0.070 U	NA	0.12 U	0.13	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	3/24/2020	0.180	NA	0.47	0.28 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	6/23/2020	0.070 U	NA	0.19 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	9/22/2020	0.070 U	NA	0.18 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	12/14/2020	0.160	NA	0.21 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	3/29/2021	0.130 J	NA	0.27	0.41 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	6/22/2021	0.110 J	NA	0.13 J	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	9/13/2021	0.130 J	NA	0.19 J	0.12 U	0.00011 J	0.0003 U	0.0002 U	0.0004 U	-
RR-5	12/6/2021	0.070 U	NA	0.32	0.39	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	2/8/2022	0.070 U	NA	0.11 U	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	5/3/2022	0.054 J	NA	0.22 J	0.27 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	8/1/2022	0.150	NA	0.15 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
RR-5	4/12/2023	0.031 U	NA	0.1 U	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RR-5	10/3/2023	0.150 U	NA	0.37	0.25 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
RR-6	6/13/2012	0.0500 UJ	NA	0.120 UJ	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
RR-6	9/12/2012	0.0240 U	NA	0.120 U	0.590	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-6	12/13/2012	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-6	3/13/2013	0.0650	NA	0.130 U	0.260 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-6	6/10/2013	0.0500 U	NA	0.0240 U	0.0490 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
RR-6	9/27/2013	0.0500 U	NA	0.120 U	0.240 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
RR-6	12/4/2013	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-6	3/4/2014	0.05 U	NA	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-6	6/11/2014	0.05 U	NA	0.12 U	0.25 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-6	9/24/2014	0.05 U	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
RR-6	12/17/2014	0.050 U	NA	0.12 U	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-6	3/23/2015	0.073	NA	0.11 U	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-6	6/16/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-6	9/23/2015	0.050 U	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
RR-6	12/23/2015	0.10 U	NA	0.23 U	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-6	3/21/2016	0.100 U	NA	0.0526 J	0.20 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-6	6/21/2016	0.100 UJ	NA	0.100 U	0.100 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
RR-6	9/19/2016	0.10 U	NA	0.095 U	0.095 U	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
RR-6	12/6/2016	0.100 U	NA	0.12 U	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
RR-6	3/21/2017	0.150 U	NA	0.25 U	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-6	6/21/2017	0.150 U	NA	0.24 U	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
RR-6	9/18/2017	0.150 U	NA	0.25 U	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
Lower Sand Unit										
DMW-1	8/26/2003	0.100 U	4.76 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
DMW-1	11/3/2003	0.0521	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-1	1/28/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-1	5/6/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-1	8/11/2004	0.0500 U	9.30	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-1	10/28/2004	0.250 U	5.00 U	NA	-	0.00250 U	0.00250 U	0.00250 U	0.00500 U	-
DMW-1	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	8/3/2005	0.0500 U	5.00 U	0.383	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
DMW-1	11/10/2005	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	2/7/2006	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	8/3/2006	0.0500 U	5.56 U	0.275 U	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
DMW-1	12/19/2006	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	2/7/2007	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	5/9/2007	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-1	7/31/2007	0.0500 U	4.76 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.00154	-0.99900 U	-
DMW-1	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-1	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-1	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-1	8/13/2008	0.0500 U	5.21 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
DMW-1	11/10/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-1	2/23/2009	NS	NS	N	NS	NS	NS	NS	NS	-
DMW-1	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-1	8/14/2009	0.0810	5.00 U	0.140	0.240 U	0.00180	0.00100 U	0.00100 U	0.00200 U	-
DMW-1	09/14/2010	0.0570	5.40 U	0.800 Y	0.300	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-1	09/29/2011	0.160 UJ	5.40 UJ	0.430 J	0.250 UJ	0.000400 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
DMW-1	9/10/2012	0.0290 J	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-1	9/25/2013	0.0500 U	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-1	9/24/2014	0.05 U	NA	0.79	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
DMW-1	9/22/2015	0.050 U	NA	0.60	0.25 U	- R	- R	- R	- R	-
DMW-1	11/19/2015	NA	NA	NA	NA	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-1	9/21/2016	0.10 U	NA	0.500	0.0674 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-1	9/20/2017	0.150 U	NA	0.91	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-1	9/19/2018	0.150 U	NA	1.20	0.28 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-1	9/9/2019	0.048 U	NA	0.22 U	0.11 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
DMW-1	9/22/2020	0.070 U	NA	0.41	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-1	9/14/2021	0.070 U	NA	0.26	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-1	8/3/2022	0.031 UJ	NA	0.69	0.17 J	0.00009 UJ	0.0003 UJ	0.0002 UJ	0.0004 UJ	-
DMW-1	10/4/2023	0.420 J	NA	0.40	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
D Street Petroleum Site

WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
DMW-2	11/19/2002	0.0565	5.00 U	NA	-	0.000500 U	0.000500 U	0.00110	0.00100 U	-
DMW-2	1/28/2003	0.0500 U	5.15 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-2	4/29/2003	0.0645	4.81 U	NA	-	0.00197	0.000500 U	0.000500 U	0.00159 J	-
DMW-2	8/25/2003	0.100 U	5.05 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
DMW-2	11/4/2003	0.0500 U	5.00 U	NA	-	0.000500 U	0.000511	0.000500 U	0.00114	-
DMW-2	1/29/2004	0.0551	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-2	5/6/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-2	8/11/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-2	10/28/2004	0.0673	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-2	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	8/3/2005	0.0522	5.00 U	0.282	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
DMW-2	11/10/2005	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	2/7/2006	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	8/2/2006	0.100 U	5.00 U	0.250 U	-	0.000500 U	0.00200 U	0.00100 U	-0.99850 U	-
DMW-2	12/19/2006	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	2/7/2007	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	5/9/2007	NS	NS	NS	-	NS	NS	NS	NS	-
DMW-2	7/31/2007	0.106	4.90 U	0.243 U	0.485 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
DMW-2	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-2	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-2	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-2	8/13/2008	0.0748	5.21 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
DMW-2	11/10/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-2	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
DMW-2	8/13/2009	0.0890	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	09/14/2010	0.0500 U	4.90 U	0.260 Y	1.50	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	09/30/2011	0.343	5.30 U	0.201	0.500 U	0.0814	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	4/5/2012	0.600	NA	NA	NA	0.120	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	6/14/2012	1.00	NA	0.840	0.240 U	0.150	0.00120	0.00100 U	0.00200 U	-
DMW-2	9/13/2012	0.710	NA	0.790	0.240 U	0.120	0.000960 J	0.000420 J	0.00150 J	-
DMW-2	12/13/2012	0.370	NA	0.430	0.240 U	0.0270	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	3/12/2013	0.150	NA	0.380	0.240 U	0.00290	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	6/12/2013	0.380	NA	0.350	0.0500 U	0.0200	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	9/25/2013	0.500	NA	0.920	0.240 U	0.00210	0.00100 U	0.00100 U	0.00200 U	-
DMW-2	12/4/2013	0.31	NA	0.24	0.24 U	0.0046	0.001 U	0.001 U	0.002 U	-
DMW-2	3/6/2014	0.25	NA	0.8	0.24 U	0.005 U	0.005 U	0.005 U	0.005 U	-
DMW-2	6/9/2014	0.5	NA	2.2	0.39	0.017	0.001 U	0.001 U	0.002 U	-
DMW-2	9/23/2014	0.16	NA	1.4	0.24	0.005 U	0.005 U	0.005 U	0.01 U	-
DMW-2	12/15/2014	0.35	NA	2.1	0.54	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
DMW-2	3/25/2015	0.27	NA	1.4	0.36	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-2	6/15/2015	0.26	NA	2.2	0.53	0.0060	0.0020 U	0.0030 U	0.0030 U	-
DMW-2	9/23/2015	0.55	NA	1.6	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-2	12/22/2015	0.11	NA	1.3	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-2	3/23/2016	0.177	NA	1.10	0.115 J	0.00026 J	0.00023 J	0.0010 U	0.0020 U	-
DMW-2	6/22/2016	0.0717 J	NA	0.450	0.0818 J	0.001 U	0.0010 U	0.0010 U	0.0020 U	-
DMW-2	9/20/2016	0.133	NA	0.897	0.106	0.0111	0.0010 U	0.0010 U	0.0030 U	-
DMW-2	12/8/2016	0.790	NA	3.1	0.12 U	0.00037	0.00036 J	0.00023 J	0.0014 J	-
DMW-2	3/21/2017	0.390	NA	1.5	0.19 J	0.00025 J	0.0010 U	0.0010 U	0.00063 J	-
DMW-2	6/21/2017	0.340	NA	1.1	0.14 J	0.0013	0.0010 U	0.00023 J	0.00066 J	-
DMW-2	9/19/2017	0.190	NA	1.2	0.13 J	0.00066	0.0010 U	0.0010 U	0.0030 U	-
DMW-2	12/12/2017	0.150	NA	1.1	0.16 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-2	3/20/2018	0.290	NA	1.4	0.18 J	0.00014 J	0.0010 U	0.0010 U	0.0030 U	-
DMW-2	6/19/2018	0.074 J	NA	0.7	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-2	9/18/2018	0.140 J	NA	1.9	0.8	0.00180	0.0010 U	0.0010 U	0.0006 J	-
DMW-2	12/11/2018	0.070 U	NA	1.7	0.7	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
DMW-2	3/13/2019	0.083 J	NA	0.86	0.21 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	6/18/2019	0.073 J	NA	1.9	0.45	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	9/11/2019	0.150	NA	0.31 J	0.11 U	0.00014 U	0.0001 J	0.0001 U	0.0005 J	-
DMW-2	12/10/2019	0.070 U	NA	1.1	0.22 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	3/24/2020	0.070 U	NA	1.1	0.16 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	6/24/2020	0.070 U	NA	0.86	0.17 J	0.00014 J	0.0003 U	0.0002 J	0.0004 U	-
DMW-2	9/23/2020	0.070 U	NA	0.57	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	12/14/2020	0.070 U	NA	0.89	0.19 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	3/30/2021	0.070 U	NA	0.72	0.18 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	6/22/2021	0.070 U	NA	0.67	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	9/14/2021	0.070 U	NA	0.57	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	12/6/2021	0.070 U	NA	2.1	0.71	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	2/8/2022	0.071 J	NA	0.62	0.11 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	5/3/2022	0.042 J	NA	2.1	0.73	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	8/2/2022	0.044 J	NA	0.56	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-2	4/11/2023	0.031 U	NA	0.42	0.13 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
DMW-2	10/3/2023	1.500 U	NA	0.83	0.22 J	0.00093 U	0.0031 U	0.0020 U	0.0044 U	-
DMW-3	8/27/2003	0.386 U	5.00 U	NA	-	0.0285	0.00200 U	0.00100 U	0.00150 U	-
DMW-3	10/30/2003	0.0999	5.00 U	NA	-	0.00356	0.000850	0.000500 U	0.00223	-
DMW-3	1/28/2004	0.158	5.00 U	NA	-	0.000643	0.000548	0.000500 U	0.00190	-
DMW-3	5/5/2004	0.128	5.00 U	NA	-	0.000500 U	0.000726	0.000500 U	0.00266	-
DMW-3	8/10/2004	0.121	5.00 U	NA	-	0.000500 U	0.000615	0.000500 U	0.00139	-
DMW-3	10/29/2004	0.217	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00171	-
DMW-3	2/10/2005	0.152	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00169	-
DMW-3	5/11/2005	0.198	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00122 J	-
DMW-3	8/5/2005	0.169	5.00 U	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	0.00106 J	-
DMW-3	11/10/2005	0.169	4.81 U	0.238 U	-	0.000500 U	0.000500 U	0.000500 U	0.00139	-
DMW-3	2/8/2006	0.149	4.76 U	0.243 U	-	0.000500 U	0.000500 U	0.000500 U	0.00106	-
DMW-3	5/3/2006	0.205	4.72 U	0.579	-	0.000524	0.000500 U	0.000500 U	0.00359	-
DMW-3	8/3/2006	0.151	4.72 U	0.238 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	12/21/2006	0.105	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	2/8/2007	0.168 J	4.90 U	0.245 U	0.490 U	0.00882	0.000500 U	0.000500 U	0.00138	-
DMW-3	5/10/2007	0.102	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	7/31/2007	0.0591	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	11/7/2007	0.0554	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000631	0.00100 U	-
DMW-3	2/15/2008	0.0520	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	5/5/2008	0.0500 U	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	8/14/2008	0.0500 U	5.21 U	0.248 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	11/13/2008	0.0500 U	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	2/26/2009	0.0500 U	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	5/13/2009	0.0705	4.72 U	0.362	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	8/12/2009	0.0510	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-3	11/11/2009	0.0590	5.00 U	0.300	0.660	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
DMW-3	3/26/2010	0.0670	5.00 U	0.270	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-3	06/11/2010	1.30	5.10 U	1.60 Y	0.250 U	0.0220	0.00100 U	0.0140	0.104	-
DMW-3	09/16/2010	0.0500 U	5.10 U	0.190 Y	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-3	10/04/2011	0.0800 U	5.00 U	0.140	0.250 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	9/10/2012	0.0500 U	NA	0.0870 J	0.0650 J	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-3	9/26/2013	0.0500 U	NA	0.120 U	0.240 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-3	9/25/2014	0.05 U	NA	1.1	0.47	0.001 U	0.001 U	0.001 U	0.002 U	-
DMW-3	9/23/2015	0.050 U	NA	0.35	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-3	9/26/2013	0.05 U	NA	0.12 U	0.24 U	0.0002 U	0.0005 U	0.0005 U	0.001 U	-
DMW-3	9/25/2014	0.050 U	NA	1.1	0.47	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
DMW-3	9/23/2015	0.050 U	NA	0.35	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-3	9/22/2016	0.10 U	NA	1.39	0.119	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-3	9/21/2017	0.110 J	NA	1.2	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.00098 J	-
DMW-3	9/18/2018	0.084 J	NA	2.1	0.84	0.00040 U	0.0010 U	0.0010 U	0.00044 J	-
DMW-3	9/9/2019	0.310	NA	0.35 J	0.13 U	0.00014 U	0.0001 U	0.0001 U	0.00017 J	-

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DMW-3	9/22/2020	0.150	NA	0.86	0.14 J	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
DMW-3	9/14/2021	0.150	NA	0.76	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
DMW-3	8/3/2022	0.510 J	NA	1.1	0.20 J	0.00009 UJ	0.0003 UJ	0.0002 UJ	0.00044 UJ	-
DMW-3	10/4/2023	0.150 U	NA	1.6	0.68 J	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
DMW-4	11/19/2002	0.628	5.00 U	NA	-	0.00191 J	0.000500 U	0.00800 J	0.0222 J	-
DMW-4	1/28/2003	0.461	5.10 U	NA	-	0.00220 J	0.000500 U	0.00124 J	0.00119 J	-
DMW-4	4/30/2003	0.462	4.85 U	NA	-	0.00239 J	0.000500 U	0.00170 J	0.00100 U	-
DMW-4	8/27/2003	0.267 U	5.00 U	NA	-	0.00603	0.00200 U	0.00100 U	0.00150 U	-
DMW-4	10/31/2003	1.49	5.00 U	NA	-	0.000994	0.000950	0.0621	0.118	-
DMW-4	1/28/2004	0.527	5.00 U	NA	-	0.00122	0.000500 U	0.00102	0.00100 U	-
DMW-4	5/5/2004	0.247 J	5.00 U	NA	-	0.000924	0.000500 U	0.00599	0.00200	-
DMW-4	8/11/2004	0.596 J	5.00 U	NA	-	0.00159 J	0.000500 UJ	0.000555 J	0.00100 UJ	-
DMW-4	10/28/2004	0.580 J	5.00 U	NA	-	0.000523 J	0.000500 U	0.0177 J	0.0494 J	-
DMW-4	2/9/2005	0.388	5.50	NA	-	0.000500 U	0.000500 U	0.000584	0.00100 U	-
DMW-4	5/10/2005	0.365	5.00 U	NA	-	0.000719	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	8/3/2005	0.984 J	5.00 U	0.250 U	-	0.00109	0.000500 U	0.00327	0.00329	-
DMW-4	11/8/2005	1.03	4.85 U	0.240 U	-	0.00136	0.000500 U	0.00914	0.0219	-
DMW-4	2/8/2006	0.990	4.81 U	0.658 J	-	0.00175	0.000500 U	0.0151	0.0279	-
DMW-4	5/2/2006	0.390	4.76 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	8/1/2006	0.529	4.95 U	0.248 U	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
DMW-4	12/19/2006	0.486	4.76 U	0.238 U	0.476 U	0.000500 U	0.000601 J	0.00123 J	0.00138 J	-
DMW-4	2/7/2007	0.279	4.72 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	5/9/2007	0.218	4.76 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.00125	0.00100 U	-
DMW-4	8/1/2007	0.603	5.00 U	NA	NA	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	11/7/2007	0.362	5.26 U	0.253 U	0.505 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	2/15/2008	0.267	0.472 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	5/5/2008	0.495	4.72 U	0.236 U	0.472 U	0.000532	0.000500 U	0.00143	0.00100 U	-
DMW-4	8/13/2008	0.503	5.21 U	0.243 U	0.485 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	11/12/2008	0.318	4.81 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00118	-
DMW-4	2/25/2009	0.210	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
DMW-4	5/13/2009	0.321	4.76 U	0.243 U	0.476 U	0.000500 U	0.000500 U	0.00119	0.00100 U	-
DMW-4	8/11/2009	0.190	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	11/12/2009	0.170	5.00 UJ	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
DMW-4	03/24/2010	0.490	6.60	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	06/08/2010	0.540	5.10 U	0.390 Y	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	09/14/2010	0.280	4.70 U	0.280 Y	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	12/20/2010	0.270	4.80 U	0.130	0.270	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	3/8/2011	0.360	5.40 U	0.120	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	6/14/2011	0.530	5.00 U	0.200	0.240 U	0.00100 U	0.00100 U	0.00560	0.00200 U	-
DMW-4	10/05/2011	0.285	5.40 U	0.152	0.510 U	0.000400 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	12/5/2011	0.210	5.00 U	0.370	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	4/5/2012	0.230	4.90 U	0.590	0.400	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	6/13/2012	0.160 J	NA	0.280 J	0.240 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00200 UJ	-
DMW-4	9/11/2012	0.160 U	NA	0.0950 J	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	12/12/2012	0.170	NA	0.140	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	3/12/2013	0.350	NA	0.140	0.270	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	6/11/2013	0.240	NA	0.120	0.0480 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	9/23/2013	0.310	NA	0.210	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
DMW-4	12/4/2013	0.410	NA	0.13	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
DMW-4	3/3/2014	0.490	NA	0.25	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
DMW-4	6/10/2014	0.360	NA	0.44	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
DMW-4	9/24/2014	0.150	NA	0.31	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
DMW-4	12/16/2014	0.12	NA	0.26	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
DMW-4	3/23/2015	0.35	NA	0.26	0.24 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-4	6/16/2015	0.29	NA	0.26	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-4	9/21/2015	0.12	NA	0.11	0.26 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
DMW-4	12/21/2015	0.10 U	NA	0.59	1.9	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	3/21/2016	0.403	NA	0.255	0.130 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-

Appendix A
Summary of Historical Groundwater Analytical Results
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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
DMW-4	6/21/2016	0.446 J	NA	0.157	0.0571 U	0.001 U	0.0010 U	0.00029 J	0.0020 U	-
DMW-4	9/22/2016	0.448	NA	0.294	0.124	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	12/7/2016	0.180	NA	0.26 J	0.12 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	3/20/2017	0.180	NA	0.22 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	6/20/2017	0.480	NA	0.30	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.00046 J	-
DMW-4	9/20/2017	0.380	NA	0.31	0.45 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	12/11/2017	0.190	NA	0.28	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	3/20/2018	0.370	NA	0.37	0.23 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	6/18/2018	0.520	NA	0.36	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	9/17/2018	0.300	NA	0.24 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
DMW-4	12/11/2018	0.370	NA	0.44	0.27 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-4	3/12/2019	0.270	NA	0.54	0.21 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-4	6/17/2019	0.290	NA	0.36	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-4	9/11/2019	0.190	NA	0.35	0.13 U	0.00014 U	0.0001 U	0.0001 U	0.0003 U	-
DMW-4	12/10/2019	0.220	NA	0.43	0.13 J	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-4	3/23/2020	0.290	NA	0.33	0.42	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-4	6/23/2020	0.260	NA	0.17 J	0.14 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
DMW-4	9/21/2020	0.320	NA	0.24 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.0004 U	-
FW-1	11/20/2002	0.0500 U	4.80 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	1/29/2003	0.0500 U	5.15 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	4/30/2003	0.0500 U	4.95 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	8/26/2003	0.100 U	5.15 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
FW-1	10/31/2003	0.0800 U	5.00 U	NA	-	0.000562	0.000500 U	0.000500 U	0.00150 U	-
FW-1	1/29/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	5/5/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	8/10/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	10/28/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-1	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	8/3/2005	0.0500 U	5.00 U	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-1	11/8/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	2/7/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	5/2/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	8/1/2006	0.100 U	4.72 U	0.236 U	-	0.000500 U	0.00200 U	0.00100 U	-0.99850 U	-
FW-1	12/19/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	2/7/2007	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	5/9/2007	NS	NS	NS	-	NS	NS	NS	NS	-
FW-1	7/31/2007	0.0500 U	4.90 U	0.236 U	0.472 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-1	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	2/13/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	8/12/2008	0.0500 U	5.21 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-1	11/7/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	8/14/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-1	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-1	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	11/19/2002	0.0500 U	4.80 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-2	1/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-2	4/29/2003	0.0500 U	4.72 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-2	8/25/2003	0.100 U	4.85 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
FW-2	10/30/2003	0.0800 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00150 U	-
FW-2	1/28/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-2	5/5/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-2	8/10/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000588	0.000500 U	0.00100 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
FW-2	10/27/2004	0.0500 U	5.00 U	NA	-	0.000500 U	0.000588	0.000500 U	0.00100 U	-
FW-2	2/7/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	5/9/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	8/1/2005	0.0500 U	5.00 U	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-2	11/8/2005	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	2/6/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	5/1/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	8/3/2006	0.0500 U	4.76 U	0.238 U	-	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-2	12/18/2006	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	2/5/2007	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	5/7/2007	NS	NS	NS	-	NS	NS	NS	NS	-
FW-2	7/31/2007	0.0500 U	4.81 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-2	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	2/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	5/5/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	8/12/2008	0.0500 U	5.21 U	0.248 U	0.495 U	0.000500 U	0.000500 U	0.000500 U	-0.99900 U	-
FW-2	11/7/2008	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	5/11/2009	NS	NS	NS	NS	NS	NS	NS	NS	-
FW-2	8/11/2009	0.0500 U	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	11/19/2002	0.0717	4.80 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	1/28/2003	0.0805 J	4.85 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	4/30/2003	0.150 J	4.95 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	8/26/2003	0.133 U	5.26 U	NA	-	0.000500 U	0.00200 U	0.00100 U	0.00150 U	-
FW-13	11/4/2003	0.0696	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	1/29/2004	0.0662	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	5/6/2004	0.0790	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00137	-
FW-13	8/11/2004	0.0911	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	10/28/2004	0.107	5.00	NA	-	0.000500	0.000500	0.000500	0.00100	-
FW-13	2/8/2005	0.184 J	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	5/10/2005	0.132	5.00 U	NA	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	8/3/2005	0.125 J	5.00 U	0.250 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	11/8/2005	0.150	5.00 U	0.243 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	2/8/2006	0.225	4.81 U	0.236 U	-	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	5/3/2006	0.317 J	4.72 U	0.236 U	-	0.000693 J	0.000500 U	0.000500 U	0.00100 U	-
FW-13	8/2/2006	0.309	5.00 U	0.250 U	-	0.00138	0.00200 U	0.00100 U	0.00150 U	-
FW-13	12/19/2006	0.187 J	4.72 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	2/6/2007	0.239	4.81 U	0.240 U	0.481 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	5/8/2007	0.405 J	4.76 U	0.238 U	0.476 U	0.000887	0.000500 U	0.000500 U	0.00100 U	-
FW-13	8/1/2007	0.225	5.00 U	0.260 U	0.521 U	0.000514	0.000500 U	0.000500 U	0.00100 U	-
FW-13	11/6/2007	0.378	4.90 U	0.253 U	0.505 U	0.00112	0.000500 U	0.000500 U	0.00100 U	-
FW-13	2/13/2008	0.387	4.72 U	0.236 U	0.472 U	0.00110	0.000500 U	0.000500 U	0.00100 U	-
FW-13	5/5/2008	0.376	4.72 U	0.238 U	0.476 U	0.00106	0.000500 U	0.000500 U	0.00100 U	-
FW-13	8/13/2008	0.228	5.21 U	0.245 U	0.490 U	0.000715	0.000500 U	0.000500 U	0.00100 U	-
FW-13	11/12/2008	0.0747	4.76 U	0.238 U	0.476 U	0.000500 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	2/26/2009	0.439	4.72 U	0.236 U	0.472 U	0.00154	0.000500 U	0.000500 U	0.00100 U	-
FW-13	5/13/2009	0.445 J	4.72 U	0.236 U	0.472 U	0.00247 J	0.000500 UJ	0.000500 UJ	0.00100 UJ	-
FW-13	8/12/2009	0.280	5.00 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	11/11/2009	0.380	5.00 U	0.290	0.700	0.00100 U	0.00100 U	0.00100 U	0.00100 U	-
FW-13	3/26/2010	0.230	5.00 U	0.140	0.700	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	06/09/2010	0.170	5.00 U	0.190 Y	0.550	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	09/16/2010	0.140	4.80 U	0.140 Y	0.750	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	12/20/2010	0.0760	4.90 U	0.120 U	0.580	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	3/10/2011	0.140	5.00 U	0.120 U	0.410	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	6/13/2011	0.150	4.90 U	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	09/30/2011	0.0993	5.10 U	0.101 U	0.505 U	0.000200 U	0.000500 U	0.000500 U	0.00100 U	-
FW-13	12/7/2011	0.0770	4.90 U	0.120 U	0.250 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	4/3/2012	0.0500 U	5.20 U	0.120 U	0.240	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-

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WELL ID	DATE	CONCENTRATION (mg/L)								
		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
FW-13	6/12/2012	0.200	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	9/10/2012	0.0990 U	NA	0.120 U	0.130 J	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	12/11/2012	0.0500 UJ	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	3/13/2013	0.0530	NA	0.120 U	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	6/11/2013	0.0890	NA	0.0600	0.0730	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	9/25/2013	0.0970	NA	0.140	0.240 U	0.00100 U	0.00100 U	0.00100 U	0.00200 U	-
FW-13	9/25/2013	0.097	NA	0.14	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-13	12/4/2013	0.081	NA	0.12 U	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-13	3/6/2014	0.280	NA	0.28	0.24 U	0.005 U	0.005 U	0.005 U	0.005 U	-
FW-13	6/9/2014	0.400	NA	0.41	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-13	9/24/2014	0.076	NA	0.24	0.24 U	0.001 U	0.001 U	0.001 U	0.002 U	-
FW-13	12/15/2014	0.20	NA	0.57	0.24 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
FW-13	3/24/2015	0.42	NA	0.11	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-13	6/15/2015	0.14	NA	0.46	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-13	9/24/2015	0.12	NA	0.11 U	0.25 U	0.0020 U	0.0020 U	0.0030 U	0.0030 U	-
FW-13	12/23/2015	0.16	NA	0.58	0.39 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
FW-13	3/23/2016	0.131	NA	0.235	0.19 U	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
FW-13	6/22/2016	0.147 J	NA	0.247	0.128 J	0.0010 U	0.0010 U	0.0010 U	0.0020 U	-
FW-13	9/20/2016	0.132	NA	0.230	0.0441 J	0.0010 U	0.0010 U	0.0010 U	0.0030 U	-
FW-13	12/6/2016	0.100 U	NA	0.083 J	0.20 U	0.00020 U	0.0010 U	0.0010 U	0.0030 U	-
FW-13	3/22/2017	0.085 J	NA	0.26	0.43 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
FW-13	6/20/2017	0.150 U	NA	0.19 J	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 U	-
FW-13	9/18/2017	0.140 U	NA	0.37	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.00050 J	-
FW-13	12/11/2017	0.150 U	NA	0.14 J	0.40 U	0.00040 U	0.0010 U	0.0010 U	0.00300 U	-
FW-13	3/20/2018	0.095 J	NA	0.40	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.00300 U	-
FW-13	6/19/2018	0.150 U	NA	0.18 J	0.41 U	0.00040 U	0.0010 U	0.0010 U	0.00300 U	-
FW-13	9/19/2018	0.150 U	NA	0.33	0.16 J	0.00040 U	0.0010 U	0.0010 U	0.00300 U	-
FW-13	12/11/2018	0.070 U	NA	0.82	0.43	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	3/13/2019	0.079 J	NA	0.34	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	6/17/2019	0.070 U	NA	0.37	0.12 J	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	9/10/2019	0.084 J	NA	0.14 J	0.13 U	0.00001 U	0.0001 U	0.0001 U	0.00031 U	-
FW-13	12/10/2019	0.070 U	NA	0.37	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	3/24/2020	0.070 U	NA	0.76	0.31 J	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	6/24/2020	0.070 U	NA	0.22 J	0.13 U	0.00012 J	0.0003 U	0.0002 U	0.00044 U	-
FW-13	9/22/2020	0.086 J	NA	0.20 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	12/15/2020	0.072 J	NA	0.27	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	3/31/2021	0.070 U	NA	0.16 J	0.38 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	6/22/2021	0.070 U	NA	0.16 J	0.13 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	9/14/2021	0.070 U	NA	0.16 J	0.14 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	12/7/2021	0.070 U	NA	0.64	0.32 J	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	2/9/2022	0.092 J	NA	0.24	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	5/3/2022	0.055 J	NA	0.41	0.27 J	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	8/2/2022	0.070 J	NA	0.21 J	0.12 U	0.00009 U	0.0003 U	0.0002 U	0.00044 U	-
FW-13	4/12/2023	0.031 U	NA	0.13 J	0.11 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-
FW-13	10/3/2023	0.150 U	NA	0.28	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 U	-

NOTES:

NA - Not analyzed

NS - Not sampled

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

UJ - The analyte was not detected at or above the sample reporting limit; however, the reporting limit is approximate because quality control criteria were not met.

R - The sample results are rejected. The presence or absence of the analyte cannot be verified.

Appendix B
Laboratory Analytical Data, Fourth Quarter 2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Renee Knecht
AECOM
1111 Third Ave
Suite 1600
Seattle, Washington 98101

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JOB DESCRIPTION

Tacoma D St Terminal/6053745

JOB NUMBER

590-21892-1

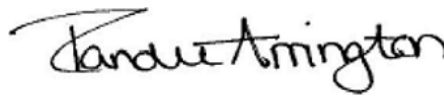
Eurofins Spokane

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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Authorized for release by
Randee Arrington, Business Unit Manager
Randee.Arrington@et.eurofinsus.com
(509)924-9200

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Case Narrative

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Job ID: 590-21892-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative 590-21892-1

Receipt

The samples were received on 10/4/2023 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.7° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): RR-5 (590-21892-11). The container labels list RR-5, while the COC lists RR-4. The sample was logged in according to the container labels.

GC/MS VOA

Method NWTPH-Gx: The method blank for analytical batch 590-43980 contained Gasoline above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method NWTPH-Gx: The method blank for analytical batch 590-43986 contained Gasoline above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8260D: The following samples were diluted due to the nature of the sample matrix: B-34 (590-21892-6), RR-1 (590-21892-7) and RR-4 (590-21892-8). Elevated reporting limits (RLs) are provided.

Method NWTPH-Gx: The method blank for analytical batch 590-44054 contained Gasoline above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E SIM: Surrogate recovery for the following sample was outside the upper control limit: FW-14 (590-21892-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 590-43906 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The continuing calibration verification (CCV) associated with batch 590-43907 recovered above the upper control limit for Sulfate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FW-13 (590-21892-4), B-34 (590-21892-6) and (CCV 590-43907/15).

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel.

DMW-2 (590-21892-1), E-21 (590-21892-10), RR-5 (590-21892-11) and T-3 (590-21892-12)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap as well as heavily weathered diesel.

FW-15 (590-21892-3), FW-13 (590-21892-4) and G-8 (590-21892-9)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel.

G-18 (590-21892-5) and B-34 (590-21892-6)

Case Narrative

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Job ID: 590-21892-1 (Continued)

Laboratory: Eurofins Spokane (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-21892-1	DMW-2	Water	10/03/23 09:15	10/04/23 10:17
590-21892-2	FW-14	Water	10/03/23 10:04	10/04/23 10:17
590-21892-3	FW-15	Water	10/03/23 11:25	10/04/23 10:17
590-21892-4	FW-13	Water	10/03/23 11:44	10/04/23 10:17
590-21892-5	G-18	Water	10/03/23 12:30	10/04/23 10:17
590-21892-6	B-34	Water	10/03/23 13:06	10/04/23 10:17
590-21892-7	RR-1	Water	10/03/23 14:05	10/04/23 10:17
590-21892-8	RR-4	Water	10/03/23 14:25	10/04/23 10:17
590-21892-9	G-8	Water	10/03/23 15:25	10/04/23 10:17
590-21892-10	E-21	Water	10/03/23 15:35	10/04/23 10:17
590-21892-11	RR-5	Water	10/03/23 16:06	10/04/23 10:17
590-21892-12	T-3	Water	10/03/23 00:00	10/04/23 10:17
590-21892-13	TB-1-231003	Water	10/03/23 00:00	10/04/23 10:17

Method Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SPK
300.0	Anions, Ion Chromatography	EPA	EET SPK
6020B	Metals (ICP/MS)	SW846	EET SEA
310.1	Alkalinity	EPA	EET SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SPK
5030C	Purge and Trap	SW846	EET SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Client Sample ID: DMW-2

Lab Sample ID: 590-21892-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	330	J B	1500	310	ug/L	10		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.83		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.22	J	0.44	0.13	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.57	F1	0.20	0.057	mg/L	1	300.0		Total/NA
Sulfate	500		50	13	mg/L	100	300.0		Total/NA
Manganese	0.18		0.010	0.0023	mg/L	5	6020B		Dissolved
Alkalinity	410		7.0	7.0	mg/L	1	310.1		Total/NA

Client Sample ID: FW-14

Lab Sample ID: 590-21892-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	36	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.15	J	0.23	0.10	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.12	J	0.38	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	11		0.20	0.057	mg/L	1	300.0		Total/NA
Sulfate	2300		50	13	mg/L	100	300.0		Total/NA
Alkalinity	90		7.0	7.0	mg/L	1	310.1		Total/NA

Client Sample ID: FW-15

Lab Sample ID: 590-21892-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.31		0.27	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.23	J	0.44	0.13	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.64		0.20	0.057	mg/L	1	300.0		Total/NA
Sulfate	24		0.50	0.13	mg/L	1	300.0		Total/NA
Lead	0.0021		0.0020	0.00020	mg/L	5	6020B		Total Recoverable
Manganese	0.0025	J	0.010	0.0023	mg/L	5	6020B		Dissolved
Alkalinity	43		7.0	7.0	mg/L	1	310.1		Total/NA

Client Sample ID: FW-13

Lab Sample ID: 590-21892-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	67	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.28		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.078	J	0.20	0.057	mg/L	1	300.0		Total/NA
Manganese	0.32		0.010	0.0023	mg/L	5	6020B		Dissolved
Alkalinity	240		7.0	7.0	mg/L	1	310.1		Total/NA

Client Sample ID: G-18

Lab Sample ID: 590-21892-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.49		0.40	0.093	ug/L	1		8260D	Total/NA
Toluene	0.33	J	1.0	0.31	ug/L	1		8260D	Total/NA
Gasoline	400	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	1.4		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Detection Summary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Client Sample ID: G-18 (Continued)

Lab Sample ID: 590-21892-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Residual Range Organics (RRO) (C25-C36)	0.43		0.42	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.69		0.50	0.13	mg/L	1		300.0	Total/NA
Lead	0.00072	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.18		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	210		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: B-34

Lab Sample ID: 590-21892-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	22		4.0	0.93	ug/L	10		8260D	Total/NA
Gasoline	2300	B	1500	310	ug/L	10		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	4.7		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.37	J	0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Manganese	0.48		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	360		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-1

Lab Sample ID: 590-21892-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	450	J B	1500	310	ug/L	10		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.20	J	0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.15	J	0.43	0.13	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	9.8		0.20	0.057	mg/L	1		300.0	Total/NA
Sulfate	2500		50	13	mg/L	100		300.0	Total/NA
Manganese	0.0050	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	68		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-4

Lab Sample ID: 590-21892-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	470	J B	1500	310	ug/L	10		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.12	J	0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	11		0.20	0.057	mg/L	1		300.0	Total/NA
Sulfate	2200		50	13	mg/L	100		300.0	Total/NA
Manganese	0.0054	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	71		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: G-8

Lab Sample ID: 590-21892-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.67	J	1.0	0.20	ug/L	1		8260D	Total/NA
Gasoline	82	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.48		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.24	J	0.43	0.13	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	3.0		0.20	0.057	mg/L	1		300.0	Total/NA
Sulfate	1100		50	13	mg/L	100		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Detection Summary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Client Sample ID: G-8 (Continued)

Lab Sample ID: 590-21892-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00022	J	0.0020	0.00020	mg/L	5		6020B	Total
Manganese	0.58		0.010	0.0023	mg/L	5		6020B	Recoverable
Alkalinity	350		7.0	7.0	mg/L	1		310.1	Dissolved
									Total/NA

Client Sample ID: E-21

Lab Sample ID: 590-21892-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	600	J B	1500	310	ug/L	10		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	7.0		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.99		0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.10	J	0.20	0.057	mg/L	1		300.0	Total/NA
Sulfate	26		2.0	0.51	mg/L	4		300.0	Total/NA
Manganese	0.23		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	270		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-5

Lab Sample ID: 590-21892-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	50	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.37		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.25	J	0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.94		0.20	0.057	mg/L	1		300.0	Total/NA
Sulfate	230		5.0	1.3	mg/L	10		300.0	Total/NA
Manganese	0.0061	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	130		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: T-3

Lab Sample ID: 590-21892-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	110	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.43		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.32	J	0.43	0.13	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	12		0.20	0.057	mg/L	1		300.0	Total/NA
Sulfate	2400		50	13	mg/L	100		300.0	Total/NA
Lead	0.00063	J	0.0020	0.00020	mg/L	5		6020B	Total
Manganese	0.012		0.010	0.0023	mg/L	5		6020B	Recoverable
Alkalinity	160		7.0	7.0	mg/L	1		310.1	Dissolved
									Total/NA

Client Sample ID: TB-1-231003

Lab Sample ID: 590-21892-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Client Sample Results

Client: AECOM

Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: DMW-2

Date Collected: 10/03/23 09:15

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	0.93	ug/L			10/09/23 17:55	10
Ethylbenzene	ND		10	2.0	ug/L			10/09/23 17:55	10
m,p-Xylene	ND		20	2.8	ug/L			10/09/23 17:55	10
o-Xylene	ND		10	1.6	ug/L			10/09/23 17:55	10
Toluene	ND		10	3.1	ug/L			10/09/23 17:55	10
Xylenes, Total	ND		30	4.4	ug/L			10/09/23 17:55	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		10/09/23 17:55	10
4-Bromofluorobenzene (Surr)	108		76 - 120		10/09/23 17:55	10
Dibromofluoromethane (Surr)	98		80 - 123		10/09/23 17:55	10
Toluene-d8 (Surr)	104		80 - 120		10/09/23 17:55	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	330	J B	1500	310	ug/L			10/09/23 17:55	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141		10/09/23 17:55	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.83		0.26	0.12	mg/L		10/05/23 07:59	10/09/23 15:10	1
Residual Range Organics (RRO) (C25-C36)	0.22	J	0.44	0.13	mg/L		10/05/23 07:59	10/09/23 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	10/05/23 07:59	10/09/23 15:10	1
n-Triacontane-d62	86		50 - 150	10/05/23 07:59	10/09/23 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.57	F1	0.20	0.057	mg/L			10/04/23 15:19	1
Sulfate	500		50	13	mg/L			10/06/23 17:37	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 20:39	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 13:37	5
Manganese	0.18		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 13:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	410		7.0	7.0	mg/L			10/11/23 19:03	1

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: FW-14

Lab Sample ID: 590-21892-2

Date Collected: 10/03/23 10:04

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 19:00	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 19:00	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 19:00	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 19:00	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 19:00	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		10/09/23 19:00	1
4-Bromofluorobenzene (Surr)	118		76 - 120		10/09/23 19:00	1
Dibromofluoromethane (Surr)	94		80 - 123		10/09/23 19:00	1
Toluene-d8 (Surr)	103		80 - 120		10/09/23 19:00	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	36	J B	150	31	ug/L			10/09/23 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		68.7 - 141		10/09/23 19:00	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.086	0.051	ug/L		10/06/23 10:17	10/06/23 18:59	1
2-Methylnaphthalene	ND		0.086	0.042	ug/L		10/06/23 10:17	10/06/23 18:59	1
1-Methylnaphthalene	ND		0.086	0.022	ug/L		10/06/23 10:17	10/06/23 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	93		44 - 120	10/06/23 10:17	10/06/23 18:59	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.15	J	0.23	0.10	mg/L		10/05/23 07:59	10/09/23 16:15	1
(C10-C25)									
Residual Range Organics (RRO)	0.12	J	0.38	0.11	mg/L		10/05/23 07:59	10/09/23 16:15	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150	10/05/23 07:59	10/09/23 16:15	1
n-Triacontane-d62	73		50 - 150	10/05/23 07:59	10/09/23 16:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	11		0.20	0.057	mg/L			10/04/23 15:58	1
Sulfate	2300		50	13	mg/L			10/06/23 18:09	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:12	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:15	5

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: FW-14

Date Collected: 10/03/23 10:04

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-2

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:15	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	90		7.0	7.0	mg/L			10/11/23 19:03	1

Client Sample ID: FW-15

Date Collected: 10/03/23 11:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 19:21	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 19:21	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 19:21	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 19:21	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 19:21	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		10/09/23 19:21	1
4-Bromofluorobenzene (Surr)	110		76 - 120		10/09/23 19:21	1
Dibromofluoromethane (Surr)	95		80 - 123		10/09/23 19:21	1
Toluene-d8 (Surr)	103		80 - 120		10/09/23 19:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	31	ug/L			10/09/23 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		68.7 - 141		10/09/23 19:21	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.31		0.27	0.12	mg/L		10/05/23 07:59	10/09/23 16:37	1
Residual Range Organics (RRO) (C25-C36)	0.23	J	0.44	0.13	mg/L		10/05/23 07:59	10/09/23 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	106		50 - 150	10/05/23 07:59	10/09/23 16:37	1
n-Triacontane-d62	100		50 - 150	10/05/23 07:59	10/09/23 16:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.64		0.20	0.057	mg/L			10/04/23 16:07	1
Sulfate	24		0.50	0.13	mg/L			10/06/23 18:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:15	5

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: FW-15

Date Collected: 10/03/23 11:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:17	5
Manganese	0.0025	J	0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	43		7.0	7.0	mg/L			10/11/23 19:03	1

Client Sample ID: FW-13

Date Collected: 10/03/23 11:44

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 19:43	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 19:43	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 19:43	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 19:43	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 19:43	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 120		10/09/23 19:43	1
4-Bromofluorobenzene (Surr)	104		76 - 120		10/09/23 19:43	1
Dibromofluoromethane (Surr)	93		80 - 123		10/09/23 19:43	1
Toluene-d8 (Surr)	104		80 - 120		10/09/23 19:43	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	67	J B	150	31	ug/L			10/09/23 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		10/09/23 19:43	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.28		0.24	0.11	mg/L		10/05/23 07:59	10/09/23 16:59	1
Residual Range Organics (RRO) (C25-C36)	ND		0.41	0.12	mg/L		10/05/23 07:59	10/09/23 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	10/05/23 07:59	10/09/23 16:59	1
n-Triacontane-d62	83		50 - 150	10/05/23 07:59	10/09/23 16:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.078	J	0.20	0.057	mg/L			10/04/23 16:17	1
Sulfate	ND		0.50	0.13	mg/L			10/04/23 16:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:17	5

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: FW-13

Date Collected: 10/03/23 11:44

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-4

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:20	5
Manganese	0.32		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	240		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: G-18

Date Collected: 10/03/23 12:30

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.49		0.40	0.093	ug/L			10/09/23 20:05	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 20:05	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 20:05	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 20:05	1
Toluene	0.33	J	1.0	0.31	ug/L			10/09/23 20:05	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		80 - 120		10/09/23 20:05	1
4-Bromofluorobenzene (Surr)	107		76 - 120		10/09/23 20:05	1
Dibromofluoromethane (Surr)	92		80 - 123		10/09/23 20:05	1
Toluene-d8 (Surr)	104		80 - 120		10/09/23 20:05	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	400	B	150	31	ug/L			10/09/23 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		68.7 - 141		10/09/23 20:05	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1.4		0.25	0.11	mg/L		10/05/23 07:59	10/09/23 17:20	1
Residual Range Organics (RRO) (C25-C36)	0.43		0.42	0.12	mg/L		10/05/23 07:59	10/09/23 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	10/05/23 07:59	10/09/23 17:20	1
n-Triacontane-d62	89		50 - 150	10/05/23 07:59	10/09/23 17:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			10/04/23 16:27	1
Sulfate	0.69		0.50	0.13	mg/L			10/06/23 18:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00072	J	0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:20	5

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: G-18

Lab Sample ID: 590-21892-5

Date Collected: 10/03/23 12:30

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:23	5
Manganese	0.18		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	210		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: B-34

Lab Sample ID: 590-21892-6

Date Collected: 10/03/23 13:06

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	22		4.0	0.93	ug/L			10/11/23 14:13	10
Ethylbenzene	ND		10	2.0	ug/L			10/11/23 14:13	10
m,p-Xylene	ND		20	2.8	ug/L			10/11/23 14:13	10
o-Xylene	ND		10	1.6	ug/L			10/11/23 14:13	10
Toluene	ND		10	3.1	ug/L			10/11/23 14:13	10
Xylenes, Total	ND		30	4.4	ug/L			10/11/23 14:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		80 - 120		10/11/23 14:13	10
4-Bromofluorobenzene (Surr)	109		76 - 120		10/11/23 14:13	10
Dibromofluoromethane (Surr)	88		80 - 123		10/11/23 14:13	10
Toluene-d8 (Surr)	106		80 - 120		10/11/23 14:13	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2300	B	1500	310	ug/L			10/12/23 13:09	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		68.7 - 141		10/12/23 13:09	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	4.7		0.24	0.11	mg/L		10/05/23 07:59	10/09/23 18:04	1
Residual Range Organics (RRO) (C25-C36)	0.37	J	0.41	0.12	mg/L		10/05/23 07:59	10/09/23 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		50 - 150	10/05/23 07:59	10/09/23 18:04	1
n-Triacontane-d62	96		50 - 150	10/05/23 07:59	10/09/23 18:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			10/04/23 16:36	1
Sulfate	ND		0.50	0.13	mg/L			10/04/23 16:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:23	5

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: B-34

Date Collected: 10/03/23 13:06

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-6

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:25	5
Manganese	0.48		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:25	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	360		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: RR-1

Date Collected: 10/03/23 14:05

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	0.93	ug/L			10/11/23 14:35	10
Ethylbenzene	ND		10	2.0	ug/L			10/11/23 14:35	10
m,p-Xylene	ND		20	2.8	ug/L			10/11/23 14:35	10
o-Xylene	ND		10	1.6	ug/L			10/11/23 14:35	10
Toluene	ND		10	3.1	ug/L			10/11/23 14:35	10
Xylenes, Total	ND		30	4.4	ug/L			10/11/23 14:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 120		10/11/23 14:35	10
4-Bromofluorobenzene (Surr)	107		76 - 120		10/11/23 14:35	10
Dibromofluoromethane (Surr)	92		80 - 123		10/11/23 14:35	10
Toluene-d8 (Surr)	104		80 - 120		10/11/23 14:35	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	450	J B	1500	310	ug/L			10/12/23 13:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		68.7 - 141		10/12/23 13:31	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.20	J	0.26	0.12	mg/L		10/05/23 07:59	10/09/23 18:26	1
Residual Range Organics (RRO) (C25-C36)	0.15	J	0.43	0.13	mg/L		10/05/23 07:59	10/09/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	104		50 - 150	10/05/23 07:59	10/09/23 18:26	1
n-Triacontane-d62	98		50 - 150	10/05/23 07:59	10/09/23 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	9.8		0.20	0.057	mg/L			10/04/23 16:46	1
Sulfate	2500		50	13	mg/L			10/06/23 18:41	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:25	5

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: RR-1

Date Collected: 10/03/23 14:05

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-7

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:28	5
Manganese	0.0050	J	0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	68		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: RR-4

Date Collected: 10/03/23 14:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 21:32	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 21:32	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 21:32	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 21:32	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 21:32	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		10/09/23 21:32	1
1,2-Dichloroethane-d4 (Surr)	88		80 - 120		10/11/23 14:57	10
4-Bromofluorobenzene (Surr)	115		76 - 120		10/09/23 21:32	1
4-Bromofluorobenzene (Surr)	107		76 - 120		10/11/23 14:57	10
Dibromofluoromethane (Surr)	96		80 - 123		10/09/23 21:32	1
Dibromofluoromethane (Surr)	91		80 - 123		10/11/23 14:57	10
Toluene-d8 (Surr)	101		80 - 120		10/09/23 21:32	1
Toluene-d8 (Surr)	105		80 - 120		10/11/23 14:57	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	470	J B	1500	310	ug/L			10/12/23 13:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		68.7 - 141		10/12/23 13:52	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.12	J	0.24	0.11	mg/L		10/05/23 07:59	10/09/23 18:47	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		10/05/23 07:59	10/09/23 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 150	10/05/23 07:59	10/09/23 18:47	1
n-Triacontane-d62	96		50 - 150	10/05/23 07:59	10/09/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	11		0.20	0.057	mg/L			10/04/23 17:15	1
Sulfate	2200		50	13	mg/L			10/06/23 18:52	100

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Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: RR-4

Lab Sample ID: 590-21892-8

Date Collected: 10/03/23 14:25

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:28	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:30	5
Manganese	0.0054	J	0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	71		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: G-8

Lab Sample ID: 590-21892-9

Date Collected: 10/03/23 15:25

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 21:53	1
Ethylbenzene	0.67	J	1.0	0.20	ug/L			10/09/23 21:53	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 21:53	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 21:53	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 21:53	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 120		10/09/23 21:53	1
4-Bromofluorobenzene (Surr)	108		76 - 120		10/09/23 21:53	1
Dibromofluoromethane (Surr)	96		80 - 123		10/09/23 21:53	1
Toluene-d8 (Surr)	103		80 - 120		10/09/23 21:53	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	82	J B	150	31	ug/L			10/12/23 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		68.7 - 141		10/12/23 14:15	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.48		0.26	0.12	mg/L		10/05/23 07:59	10/09/23 19:09	1
Residual Range Organics (RRO) (C25-C36)	0.24	J	0.43	0.13	mg/L		10/05/23 07:59	10/09/23 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	113		50 - 150	10/05/23 07:59	10/09/23 19:09	1
n-Triacontane-d62	108		50 - 150	10/05/23 07:59	10/09/23 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	3.0		0.20	0.057	mg/L			10/04/23 17:25	1
Sulfate	1100		50	13	mg/L			10/06/23 19:25	100

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Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: G-8

Lab Sample ID: 590-21892-9

Date Collected: 10/03/23 15:25

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00022	J	0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:31	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:33	5
Manganese	0.58		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:33	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	350		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: E-21

Lab Sample ID: 590-21892-10

Date Collected: 10/03/23 15:35

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	0.93	ug/L			10/11/23 17:06	10
Ethylbenzene	ND		10	2.0	ug/L			10/11/23 17:06	10
m,p-Xylene	ND		20	2.8	ug/L			10/11/23 17:06	10
o-Xylene	ND		10	1.6	ug/L			10/11/23 17:06	10
Toluene	ND		10	3.1	ug/L			10/11/23 17:06	10
Xylenes, Total	ND		30	4.4	ug/L			10/11/23 17:06	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		10/11/23 17:06	10
4-Bromofluorobenzene (Surr)	127	S1+	76 - 120		10/11/23 17:06	10
Dibromofluoromethane (Surr)	105		80 - 123		10/11/23 17:06	10
Toluene-d8 (Surr)	108		80 - 120		10/11/23 17:06	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	600	J B	1500	310	ug/L			10/12/23 14:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		68.7 - 141		10/12/23 14:37	10

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	7.0		0.24	0.11	mg/L		10/05/23 07:59	10/09/23 19:31	1
Residual Range Organics (RRO) (C25-C36)	0.99		0.41	0.12	mg/L		10/05/23 07:59	10/09/23 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	10/05/23 07:59	10/09/23 19:31	1
n-Triacontane-d62	86		50 - 150	10/05/23 07:59	10/09/23 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	J	0.20	0.057	mg/L			10/04/23 17:35	1
Sulfate	26		2.0	0.51	mg/L			10/06/23 19:36	4

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Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: E-21

Lab Sample ID: 590-21892-10

Date Collected: 10/03/23 15:35

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:33	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:36	5
Manganese	0.23		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	270		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: RR-5

Lab Sample ID: 590-21892-11

Date Collected: 10/03/23 16:06

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 22:36	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 22:36	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 22:36	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 22:36	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 22:36	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		10/09/23 22:36	1
4-Bromofluorobenzene (Surr)	117		76 - 120		10/09/23 22:36	1
Dibromofluoromethane (Surr)	103		80 - 123		10/09/23 22:36	1
Toluene-d8 (Surr)	99		80 - 120		10/09/23 22:36	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	50	J B	150	31	ug/L			10/12/23 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134		68.7 - 141		10/12/23 14:59	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.37		0.25	0.11	mg/L		10/05/23 07:59	10/09/23 19:53	1
Residual Range Organics (RRO) (C25-C36)	0.25	J	0.41	0.12	mg/L		10/05/23 07:59	10/09/23 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	10/05/23 07:59	10/09/23 19:53	1
n-Triacontane-d62	84		50 - 150	10/05/23 07:59	10/09/23 19:53	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.94		0.20	0.057	mg/L			10/04/23 17:44	1
Sulfate	230		5.0	1.3	mg/L			10/06/23 19:47	10

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: RR-5

Lab Sample ID: 590-21892-11

Date Collected: 10/03/23 16:06

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:36	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:38	5
Manganese	0.0061	J	0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	130		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: T-3

Lab Sample ID: 590-21892-12

Date Collected: 10/03/23 00:00

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 22:58	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 22:58	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 22:58	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 22:58	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 22:58	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		80 - 120		10/09/23 22:58	1
4-Bromofluorobenzene (Surr)	112		76 - 120		10/09/23 22:58	1
Dibromofluoromethane (Surr)	92		80 - 123		10/09/23 22:58	1
Toluene-d8 (Surr)	105		80 - 120		10/09/23 22:58	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	110	J B	150	31	ug/L			10/12/23 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		68.7 - 141		10/12/23 15:21	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.43		0.26	0.12	mg/L		10/05/23 07:59	10/09/23 20:15	1
Residual Range Organics (RRO) (C25-C36)	0.32	J	0.43	0.13	mg/L		10/05/23 07:59	10/09/23 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	122		50 - 150	10/05/23 07:59	10/09/23 20:15	1
n-Triacontane-d62	115		50 - 150	10/05/23 07:59	10/09/23 20:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	12		0.20	0.057	mg/L			10/04/23 17:54	1
Sulfate	2400		50	13	mg/L			10/06/23 19:57	100

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: T-3

Lab Sample ID: 590-21892-12

Date Collected: 10/03/23 00:00

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00063	J	0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 21:52	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 14:57	5
Manganese	0.012		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 14:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	160		7.0	7.0	mg/L			10/11/23 19:04	1

Client Sample ID: TB-1-231003

Lab Sample ID: 590-21892-13

Date Collected: 10/03/23 00:00

Matrix: Water

Date Received: 10/04/23 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 23:20	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 23:20	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 23:20	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 23:20	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 23:20	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		10/09/23 23:20	1
4-Bromofluorobenzene (Surr)	118		76 - 120		10/09/23 23:20	1
Dibromofluoromethane (Surr)	95		80 - 123		10/09/23 23:20	1
Toluene-d8 (Surr)	98		80 - 120		10/09/23 23:20	1

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-43978/6

Matrix: Water

Analysis Batch: 43978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 16:50	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 16:50	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 16:50	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 16:50	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 16:50	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		80 - 120		10/09/23 16:50	1
4-Bromofluorobenzene (Surr)	111		76 - 120		10/09/23 16:50	1
Dibromofluoromethane (Surr)	91		80 - 123		10/09/23 16:50	1
Toluene-d8 (Surr)	104		80 - 120		10/09/23 16:50	1

Lab Sample ID: LCS 590-43978/1003

Matrix: Water

Analysis Batch: 43978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.39		ug/L		94	80 - 120
Ethylbenzene	10.0	10.9		ug/L		109	80 - 122
m,p-Xylene	10.0	11.0		ug/L		110	80 - 125
o-Xylene	10.0	11.5		ug/L		115	80 - 130
Toluene	10.0	10.3		ug/L		103	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 120
4-Bromofluorobenzene (Surr)	110		76 - 120
Dibromofluoromethane (Surr)	91		80 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: LCSD 590-43978/4

Matrix: Water

Analysis Batch: 43978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.37		ug/L		94	80 - 120	0	15
Ethylbenzene	10.0	10.6		ug/L		106	80 - 122	2	35
m,p-Xylene	10.0	10.9		ug/L		109	80 - 125	1	35
o-Xylene	10.0	11.3		ug/L		113	80 - 130	2	35
Toluene	10.0	10.2		ug/L		102	80 - 129	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 120
4-Bromofluorobenzene (Surr)	109		76 - 120
Dibromofluoromethane (Surr)	90		80 - 123
Toluene-d8 (Surr)	102		80 - 120

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-21892-1 MS

Client Sample ID: DMW-2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		100	98.5		ug/L		98	80 - 120
Ethylbenzene	ND		100	110		ug/L		110	80 - 122
m,p-Xylene	ND		100	110		ug/L		110	80 - 125
o-Xylene	ND		100	113		ug/L		113	80 - 130
Toluene	ND		100	104		ug/L		104	80 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	105		76 - 120
Dibromofluoromethane (Surr)	94		80 - 123
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 590-21892-1 MSD

Client Sample ID: DMW-2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		100	99.1		ug/L		99	80 - 120	1	15
Ethylbenzene	ND		100	115		ug/L		115	80 - 122	4	35
m,p-Xylene	ND		100	113		ug/L		113	80 - 125	3	35
o-Xylene	ND		100	114		ug/L		114	80 - 130	1	35
Toluene	ND		100	108		ug/L		108	80 - 129	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 120
4-Bromofluorobenzene (Surr)	105		76 - 120
Dibromofluoromethane (Surr)	92		80 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 590-44027/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 44027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/11/23 13:50	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/11/23 13:50	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/11/23 13:50	1
o-Xylene	ND		1.0	0.16	ug/L			10/11/23 13:50	1
Toluene	ND		1.0	0.31	ug/L			10/11/23 13:50	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/11/23 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		80 - 120		10/11/23 13:50	1
4-Bromofluorobenzene (Surr)	112		76 - 120		10/11/23 13:50	1
Dibromofluoromethane (Surr)	87		80 - 123		10/11/23 13:50	1
Toluene-d8 (Surr)	105		80 - 120		10/11/23 13:50	1

Eurofins Spokane

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-44027/1003

Matrix: Water

Analysis Batch: 44027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.40		ug/L		94	80 - 120
Ethylbenzene	10.0	10.8		ug/L		108	80 - 122
m,p-Xylene	10.0	10.7		ug/L		107	80 - 125
o-Xylene	10.0	11.1		ug/L		111	80 - 130
Toluene	10.0	10.6		ug/L		106	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		80 - 120
4-Bromofluorobenzene (Surr)	114		76 - 120
Dibromofluoromethane (Surr)	83		80 - 123
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: LCSD 590-44027/4

Matrix: Water

Analysis Batch: 44027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.52		ug/L		95	80 - 120	1	15
Ethylbenzene	10.0	10.5		ug/L		105	80 - 122	2	35
m,p-Xylene	10.0	10.7		ug/L		107	80 - 125	0	35
o-Xylene	10.0	11.0		ug/L		110	80 - 130	1	35
Toluene	10.0	10.3		ug/L		103	80 - 129	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		80 - 120
4-Bromofluorobenzene (Surr)	110		76 - 120
Dibromofluoromethane (Surr)	85		80 - 123
Toluene-d8 (Surr)	104		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-43980/6

Matrix: Water

Analysis Batch: 43980

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	34.8	J	150	31	ug/L			10/09/23 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		68.7 - 141		10/09/23 16:50	1

Lab Sample ID: LCS 590-43980/1005

Matrix: Water

Analysis Batch: 43980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	1000	1130		ug/L		113	80 - 120

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QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-43980/1005

Matrix: Water

Analysis Batch: 43980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		68.7 - 141

Lab Sample ID: LCSD 590-43980/1016

Matrix: Water

Analysis Batch: 43980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	1030		ug/L		103	80 - 120	10	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		68.7 - 141

Lab Sample ID: MB 590-43986/6

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	44.1	J	150	31	ug/L			10/10/23 04:02	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		68.7 - 141					10/10/23 04:02	1

Lab Sample ID: LCS 590-43986/1005

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1000	994		ug/L		99	80 - 120		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		68.7 - 141

Lab Sample ID: LCSD 590-43986/1016

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	954		ug/L		95	80 - 120	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		68.7 - 141

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: 590-21892-1 MS

Matrix: Water

Analysis Batch: 43986

Client Sample ID: DMW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	330	J B	10000	10400		ug/L		101	55.6 - 126
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		68.7 - 141						

Lab Sample ID: 590-21892-1 MSD

Matrix: Water

Analysis Batch: 43986

Client Sample ID: DMW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	330	J B	10000	10400		ug/L		101	55.6 - 126	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		68.7 - 141								

Lab Sample ID: MB 590-44054/7

Matrix: Water

Analysis Batch: 44054

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	37.6	J	150	31	ug/L			10/12/23 12:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141					10/12/23 12:25	1

Lab Sample ID: LCS 590-44054/1006

Matrix: Water

Analysis Batch: 44054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	1000	1080		ug/L		108	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		68.7 - 141				

Lab Sample ID: LCSD 590-44054/1024

Matrix: Water

Analysis Batch: 44054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	922		ug/L		92	80 - 120	16	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		68.7 - 141						

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QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-43945/1-A

Matrix: Water

Analysis Batch: 43966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.090	0.053	ug/L		10/06/23 10:17	10/06/23 16:46	1
2-Methylnaphthalene	ND		0.090	0.044	ug/L		10/06/23 10:17	10/06/23 16:46	1
1-Methylnaphthalene	ND		0.090	0.023	ug/L		10/06/23 10:17	10/06/23 16:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		44 - 120				10/06/23 10:17	10/06/23 16:46	1

Lab Sample ID: LCS 590-43945/2-A

Matrix: Water

Analysis Batch: 43990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	1.60	1.04		ug/L		65	47 - 120
2-Methylnaphthalene	1.60	1.06		ug/L		66	46 - 120
1-Methylnaphthalene	1.60	1.06		ug/L		66	49 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Nitrobenzene-d5	84		44 - 120				

Lab Sample ID: LCSD 590-43945/3-A

Matrix: Water

Analysis Batch: 43966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.60	1.15		ug/L		72	47 - 120	10	30
2-Methylnaphthalene	1.60	1.17		ug/L		73	46 - 120	10	34
1-Methylnaphthalene	1.60	1.21		ug/L		75	49 - 120	13	32
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Nitrobenzene-d5	93		44 - 120						

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-43918/1-A

Matrix: Water

Analysis Batch: 43970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.24	0.11	mg/L		10/05/23 07:59	10/09/23 14:04	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		10/05/23 07:59	10/09/23 14:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150				10/05/23 07:59	10/09/23 14:04	1
n-Triacontane-d62	93		50 - 150				10/05/23 07:59	10/09/23 14:04	1

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QC Sample Results

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 590-43918/2-A

Matrix: Water

Analysis Batch: 43970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43918

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Diesel Range Organics (DRO) (C10-C25)			1.60	1.57		mg/L		98		50 - 150	
Residual Range Organics (RRO) (C25-C36)			1.60	1.88		mg/L		117		50 - 150	
Surrogate		LCS	LCS								
	%Recovery	Qualifier	Limits								
o-Terphenyl	103		50 - 150								
n-Triacontane-d62	92		50 - 150								

Lab Sample ID: LCSD 590-43918/3-A

Matrix: Water

Analysis Batch: 43970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43918

		Spike Added		LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Analyte											
Diesel Range Organics (DRO) (C10-C25)			1.60	1.41		mg/L		88	50 - 150	11	25
Residual Range Organics (RRO) (C25-C36)			1.60	1.70		mg/L		106	50 - 150	10	25
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	92		50 - 150								
n-Triacontane-d62	86		50 - 150								

Lab Sample ID: 590-21892-1 MS

Matrix: Water

Analysis Batch: 43970

Client Sample ID: DMW-2

Prep Type: Total/NA

Prep Batch: 43918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO) (C10-C25)	0.83		1.80	2.43		mg/L		89	54.5 - 136		
Residual Range Organics (RRO) (C25-C36)	0.22	J	1.80	2.04		mg/L		101	50 - 150		
Surrogate	MS %Recovery	MS Qualifier	Limits								
o-Terphenyl	91		50 - 150								
n-Triacontane-d62	85		50 - 150								

Lab Sample ID: 590-21892-1 MSD

Matrix: Water

Analysis Batch: 43970

Client Sample ID: DMW-2

Prep Type: Total/NA

Prep Batch: 43918

Rep Data: 100%											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	0.83		1.65	2.44		mg/L		98	54.5 - 136	1	32.5
Residual Range Organics (RRO) (C25-C36)	0.22	J	1.65	2.07		mg/L		112	50 - 150	1	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl	99		50 - 150								

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-21892-1 MSD

Client Sample ID: DMW-2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43970

Prep Batch: 43918

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Triacontane-d62	93		50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-43906/1003

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			10/04/23 15:00	1

Lab Sample ID: LCS 590-43906/1004

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.00		mg/L		100	90 - 110

Lab Sample ID: 590-21892-1 MS

Client Sample ID: DMW-2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.57	F1	4.55	2.19	F1	mg/L		36	80 - 120

Lab Sample ID: 590-21892-1 MSD

Client Sample ID: DMW-2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.57	F1	4.55	2.26	F1	mg/L		37	80 - 120	3	12.1

Lab Sample ID: 590-21892-1 DU

Client Sample ID: DMW-2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43906

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.57	F1	0.640		mg/L		12	13.1

Lab Sample ID: MB 590-43907/1003

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 43907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/04/23 15:00	1

Eurofins Spokane

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 590-43907/1004

Matrix: Water

Analysis Batch: 43907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.4		mg/L		99	90 - 110

Lab Sample ID: 590-21892-D-1 DU

Matrix: Water

Analysis Batch: 43907

Client Sample ID: 590-21892-D-1 DU

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	310	E	311	E	mg/L		0.1	15.7

Lab Sample ID: MB 590-43961/1001

Matrix: Water

Analysis Batch: 43961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/06/23 14:50	1

Lab Sample ID: LCS 590-43961/1002

Matrix: Water

Analysis Batch: 43961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	13.7		mg/L		110	90 - 110

Lab Sample ID: 590-21892-1 MS

Matrix: Water

Analysis Batch: 43961

Client Sample ID: DMW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	500		1140	1700		mg/L		105	80 - 120

Lab Sample ID: 590-21892-1 MSD

Matrix: Water

Analysis Batch: 43961

Client Sample ID: DMW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	500		1140	1700		mg/L		105	80 - 120	0	10

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-440560/24-A

Matrix: Water

Analysis Batch: 440743

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 440560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/11/23 15:25	10/12/23 20:37	5

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QC Sample Results

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-440560/25-A

Matrix: Water

Analysis Batch: 440743

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 440560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-440560/26-A

Matrix: Water

Analysis Batch: 440743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 440560

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.986		mg/L		99	80 - 120	2	20

Lab Sample ID: 590-21892-1 MS

Matrix: Water

Analysis Batch: 440743

Client Sample ID: DMW-2

Prep Type: Total Recoverable

Prep Batch: 440560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1.00	0.976		mg/L		98	80 - 120

Lab Sample ID: 590-21892-1 MSD

Matrix: Water

Analysis Batch: 440743

Client Sample ID: DMW-2

Prep Type: Total Recoverable

Prep Batch: 440560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	1.02		mg/L		102	80 - 120	5	20

Lab Sample ID: 590-21892-1 DU

Matrix: Water

Analysis Batch: 440743

Client Sample ID: DMW-2

Prep Type: Total Recoverable

Prep Batch: 440560

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-441011/24-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 441011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 13:35	5
Manganese	ND		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 13:35	5

Lab Sample ID: LCS 580-441011/25-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 441011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	1.00		mg/L		100	80 - 120
Manganese	1.00	0.995		mg/L		99	80 - 120

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QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-441011/26-A
Matrix: Water
Analysis Batch: 441172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 441011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.997		mg/L		100	80 - 120	0	20
Manganese	1.00	1.02		mg/L		102	80 - 120	3	20

Lab Sample ID: 590-21892-1 MS
Matrix: Water
Analysis Batch: 441172

Client Sample ID: DMW-2
Prep Type: Dissolved
Prep Batch: 441011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	1.04		mg/L		104	80 - 120		
Manganese	0.18		1.00	1.21		mg/L		103	80 - 120		

Lab Sample ID: 590-21892-1 MSD
Matrix: Water
Analysis Batch: 441172

Client Sample ID: DMW-2
Prep Type: Dissolved
Prep Batch: 441011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	0.986		mg/L		99	80 - 120	5	20
Manganese	0.18		1.00	1.18		mg/L		100	80 - 120	2	20

Lab Sample ID: 590-21892-1 DU
Matrix: Water
Analysis Batch: 441172

Client Sample ID: DMW-2
Prep Type: Dissolved
Prep Batch: 441011

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		ND		mg/L				NC	20
Manganese	0.18		0.189		mg/L				4	20

Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-440599/2
Matrix: Water
Analysis Batch: 440599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	100	97.1		mg/L		97	85 - 115		

Lab Sample ID: LCSD 580-440599/3
Matrix: Water
Analysis Batch: 440599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	100	101		mg/L		101	85 - 115	4	20

Lab Sample ID: 590-21892-1 DU
Matrix: Water
Analysis Batch: 440599

Client Sample ID: DMW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	410		410		mg/L				0.7	17

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QC Association Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

GC/MS VOA

Analysis Batch: 43978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	8260D	
590-21892-2	FW-14	Total/NA	Water	8260D	
590-21892-3	FW-15	Total/NA	Water	8260D	
590-21892-4	FW-13	Total/NA	Water	8260D	
590-21892-5	G-18	Total/NA	Water	8260D	
590-21892-8	RR-4	Total/NA	Water	8260D	
590-21892-9	G-8	Total/NA	Water	8260D	
590-21892-11	RR-5	Total/NA	Water	8260D	
590-21892-12	T-3	Total/NA	Water	8260D	
590-21892-13	TB-1-231003	Total/NA	Water	8260D	
MB 590-43978/6	Method Blank	Total/NA	Water	8260D	
LCS 590-43978/1003	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-43978/4	Lab Control Sample Dup	Total/NA	Water	8260D	
590-21892-1 MS	DMW-2	Total/NA	Water	8260D	
590-21892-1 MSD	DMW-2	Total/NA	Water	8260D	

Analysis Batch: 43980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	NWTPH-Gx	
590-21892-2	FW-14	Total/NA	Water	NWTPH-Gx	
590-21892-3	FW-15	Total/NA	Water	NWTPH-Gx	
590-21892-4	FW-13	Total/NA	Water	NWTPH-Gx	
590-21892-5	G-18	Total/NA	Water	NWTPH-Gx	
MB 590-43980/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-43980/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-43980/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 43986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 590-43986/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-43986/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-43986/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
590-21892-1 MS	DMW-2	Total/NA	Water	NWTPH-Gx	
590-21892-1 MSD	DMW-2	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 44027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-6	B-34	Total/NA	Water	8260D	
590-21892-7	RR-1	Total/NA	Water	8260D	
590-21892-8	RR-4	Total/NA	Water	8260D	
590-21892-10	E-21	Total/NA	Water	8260D	
MB 590-44027/6	Method Blank	Total/NA	Water	8260D	
LCS 590-44027/1003	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-44027/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 44054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-6	B-34	Total/NA	Water	NWTPH-Gx	
590-21892-7	RR-1	Total/NA	Water	NWTPH-Gx	
590-21892-8	RR-4	Total/NA	Water	NWTPH-Gx	
590-21892-9	G-8	Total/NA	Water	NWTPH-Gx	

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QC Association Summary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

GC/MS VOA (Continued)

Analysis Batch: 44054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-10	E-21	Total/NA	Water	NWTPH-Gx	
590-21892-11	RR-5	Total/NA	Water	NWTPH-Gx	
590-21892-12	T-3	Total/NA	Water	NWTPH-Gx	
MB 590-44054/7	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-44054/1006	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-44054/1024	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC/MS Semi VOA

Prep Batch: 43945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-2	FW-14	Total/NA	Water	3510C	
MB 590-43945/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-43945/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-43945/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 43966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-2	FW-14	Total/NA	Water	8270E SIM	43945
MB 590-43945/1-A	Method Blank	Total/NA	Water	8270E SIM	43945
LCSD 590-43945/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	43945

Analysis Batch: 43990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 590-43945/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	43945

GC Semi VOA

Prep Batch: 43918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	3510C	
590-21892-2	FW-14	Total/NA	Water	3510C	
590-21892-3	FW-15	Total/NA	Water	3510C	
590-21892-4	FW-13	Total/NA	Water	3510C	
590-21892-5	G-18	Total/NA	Water	3510C	
590-21892-6	B-34	Total/NA	Water	3510C	
590-21892-7	RR-1	Total/NA	Water	3510C	
590-21892-8	RR-4	Total/NA	Water	3510C	
590-21892-9	G-8	Total/NA	Water	3510C	
590-21892-10	E-21	Total/NA	Water	3510C	
590-21892-11	RR-5	Total/NA	Water	3510C	
590-21892-12	T-3	Total/NA	Water	3510C	
MB 590-43918/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-43918/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-43918/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
590-21892-1 MS	DMW-2	Total/NA	Water	3510C	
590-21892-1 MSD	DMW-2	Total/NA	Water	3510C	

Analysis Batch: 43970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	NWTPH-Dx	43918
590-21892-2	FW-14	Total/NA	Water	NWTPH-Dx	43918

Eurofins Spokane

QC Association Summary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

GC Semi VOA (Continued)

Analysis Batch: 43970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-3	FW-15	Total/NA	Water	NWTPH-Dx	43918
590-21892-4	FW-13	Total/NA	Water	NWTPH-Dx	43918
590-21892-5	G-18	Total/NA	Water	NWTPH-Dx	43918
590-21892-6	B-34	Total/NA	Water	NWTPH-Dx	43918
590-21892-7	RR-1	Total/NA	Water	NWTPH-Dx	43918
590-21892-8	RR-4	Total/NA	Water	NWTPH-Dx	43918
590-21892-9	G-8	Total/NA	Water	NWTPH-Dx	43918
590-21892-10	E-21	Total/NA	Water	NWTPH-Dx	43918
590-21892-11	RR-5	Total/NA	Water	NWTPH-Dx	43918
590-21892-12	T-3	Total/NA	Water	NWTPH-Dx	43918
MB 590-43918/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	43918
LCS 590-43918/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	43918
LCSD 590-43918/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	43918
590-21892-1 MS	DMW-2	Total/NA	Water	NWTPH-Dx	43918
590-21892-1 MSD	DMW-2	Total/NA	Water	NWTPH-Dx	43918

HPLC/IC

Analysis Batch: 43906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	300.0	
590-21892-2	FW-14	Total/NA	Water	300.0	
590-21892-3	FW-15	Total/NA	Water	300.0	
590-21892-4	FW-13	Total/NA	Water	300.0	
590-21892-5	G-18	Total/NA	Water	300.0	
590-21892-6	B-34	Total/NA	Water	300.0	
590-21892-7	RR-1	Total/NA	Water	300.0	
590-21892-8	RR-4	Total/NA	Water	300.0	
590-21892-9	G-8	Total/NA	Water	300.0	
590-21892-10	E-21	Total/NA	Water	300.0	
590-21892-11	RR-5	Total/NA	Water	300.0	
590-21892-12	T-3	Total/NA	Water	300.0	
MB 590-43906/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-43906/1004	Lab Control Sample	Total/NA	Water	300.0	
590-21892-1 MS	DMW-2	Total/NA	Water	300.0	
590-21892-1 MSD	DMW-2	Total/NA	Water	300.0	
590-21892-1 DU	DMW-2	Total/NA	Water	300.0	

Analysis Batch: 43907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-4	FW-13	Total/NA	Water	300.0	
590-21892-6	B-34	Total/NA	Water	300.0	
MB 590-43907/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-43907/1004	Lab Control Sample	Total/NA	Water	300.0	
590-21892-D-1 DU	590-21892-D-1 DU	Total/NA	Water	300.0	

Analysis Batch: 43961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	300.0	
590-21892-2	FW-14	Total/NA	Water	300.0	
590-21892-3	FW-15	Total/NA	Water	300.0	

Eurofins Spokane

QC Association Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

HPLC/IC (Continued)

Analysis Batch: 43961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-5	G-18	Total/NA	Water	300.0	
590-21892-7	RR-1	Total/NA	Water	300.0	
590-21892-8	RR-4	Total/NA	Water	300.0	
590-21892-9	G-8	Total/NA	Water	300.0	
590-21892-10	E-21	Total/NA	Water	300.0	
590-21892-11	RR-5	Total/NA	Water	300.0	
590-21892-12	T-3	Total/NA	Water	300.0	
MB 590-43961/1001	Method Blank	Total/NA	Water	300.0	
LCS 590-43961/1002	Lab Control Sample	Total/NA	Water	300.0	
590-21892-1 MS	DMW-2	Total/NA	Water	300.0	
590-21892-1 MSD	DMW-2	Total/NA	Water	300.0	

Metals

Prep Batch: 440560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total Recoverable	Water	3005A	
590-21892-2	FW-14	Total Recoverable	Water	3005A	
590-21892-3	FW-15	Total Recoverable	Water	3005A	
590-21892-4	FW-13	Total Recoverable	Water	3005A	
590-21892-5	G-18	Total Recoverable	Water	3005A	
590-21892-6	B-34	Total Recoverable	Water	3005A	
590-21892-7	RR-1	Total Recoverable	Water	3005A	
590-21892-8	RR-4	Total Recoverable	Water	3005A	
590-21892-9	G-8	Total Recoverable	Water	3005A	
590-21892-10	E-21	Total Recoverable	Water	3005A	
590-21892-11	RR-5	Total Recoverable	Water	3005A	
590-21892-12	T-3	Total Recoverable	Water	3005A	
MB 580-440560/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-440560/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-440560/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-21892-1 MS	DMW-2	Total Recoverable	Water	3005A	
590-21892-1 MSD	DMW-2	Total Recoverable	Water	3005A	
590-21892-1 DU	DMW-2	Total Recoverable	Water	3005A	

Analysis Batch: 440743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total Recoverable	Water	6020B	440560
590-21892-2	FW-14	Total Recoverable	Water	6020B	440560
590-21892-3	FW-15	Total Recoverable	Water	6020B	440560
590-21892-4	FW-13	Total Recoverable	Water	6020B	440560
590-21892-5	G-18	Total Recoverable	Water	6020B	440560
590-21892-6	B-34	Total Recoverable	Water	6020B	440560
590-21892-7	RR-1	Total Recoverable	Water	6020B	440560
590-21892-8	RR-4	Total Recoverable	Water	6020B	440560
590-21892-9	G-8	Total Recoverable	Water	6020B	440560
590-21892-10	E-21	Total Recoverable	Water	6020B	440560
590-21892-11	RR-5	Total Recoverable	Water	6020B	440560
590-21892-12	T-3	Total Recoverable	Water	6020B	440560
MB 580-440560/24-A	Method Blank	Total Recoverable	Water	6020B	440560
LCS 580-440560/25-A	Lab Control Sample	Total Recoverable	Water	6020B	440560

Eurofins Spokane

QC Association Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Metals (Continued)

Analysis Batch: 440743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 580-440560/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	440560
590-21892-1 MS	DMW-2	Total Recoverable	Water	6020B	440560
590-21892-1 MSD	DMW-2	Total Recoverable	Water	6020B	440560
590-21892-1 DU	DMW-2	Total Recoverable	Water	6020B	440560

Prep Batch: 441011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Dissolved	Water	3005A	
590-21892-2	FW-14	Dissolved	Water	3005A	
590-21892-3	FW-15	Dissolved	Water	3005A	
590-21892-4	FW-13	Dissolved	Water	3005A	
590-21892-5	G-18	Dissolved	Water	3005A	
590-21892-6	B-34	Dissolved	Water	3005A	
590-21892-7	RR-1	Dissolved	Water	3005A	
590-21892-8	RR-4	Dissolved	Water	3005A	
590-21892-9	G-8	Dissolved	Water	3005A	
590-21892-10	E-21	Dissolved	Water	3005A	
590-21892-11	RR-5	Dissolved	Water	3005A	
590-21892-12	T-3	Dissolved	Water	3005A	
MB 580-441011/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-441011/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-441011/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-21892-1 MS	DMW-2	Dissolved	Water	3005A	
590-21892-1 MSD	DMW-2	Dissolved	Water	3005A	
590-21892-1 DU	DMW-2	Dissolved	Water	3005A	

Analysis Batch: 441172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Dissolved	Water	6020B	441011
590-21892-2	FW-14	Dissolved	Water	6020B	441011
590-21892-3	FW-15	Dissolved	Water	6020B	441011
590-21892-4	FW-13	Dissolved	Water	6020B	441011
590-21892-5	G-18	Dissolved	Water	6020B	441011
590-21892-6	B-34	Dissolved	Water	6020B	441011
590-21892-7	RR-1	Dissolved	Water	6020B	441011
590-21892-8	RR-4	Dissolved	Water	6020B	441011
590-21892-9	G-8	Dissolved	Water	6020B	441011
590-21892-10	E-21	Dissolved	Water	6020B	441011
590-21892-11	RR-5	Dissolved	Water	6020B	441011
590-21892-12	T-3	Dissolved	Water	6020B	441011
MB 580-441011/24-A	Method Blank	Total Recoverable	Water	6020B	441011
LCS 580-441011/25-A	Lab Control Sample	Total Recoverable	Water	6020B	441011
LCSD 580-441011/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	441011
590-21892-1 MS	DMW-2	Dissolved	Water	6020B	441011
590-21892-1 MSD	DMW-2	Dissolved	Water	6020B	441011
590-21892-1 DU	DMW-2	Dissolved	Water	6020B	441011

QC Association Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

General Chemistry

Analysis Batch: 440599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21892-1	DMW-2	Total/NA	Water	310.1	
590-21892-2	FW-14	Total/NA	Water	310.1	
590-21892-3	FW-15	Total/NA	Water	310.1	
590-21892-4	FW-13	Total/NA	Water	310.1	
590-21892-5	G-18	Total/NA	Water	310.1	
590-21892-6	B-34	Total/NA	Water	310.1	
590-21892-7	RR-1	Total/NA	Water	310.1	
590-21892-8	RR-4	Total/NA	Water	310.1	
590-21892-9	G-8	Total/NA	Water	310.1	
590-21892-10	E-21	Total/NA	Water	310.1	
590-21892-11	RR-5	Total/NA	Water	310.1	
590-21892-12	T-3	Total/NA	Water	310.1	
LCS 580-440599/2	Lab Control Sample	Total/NA	Water	310.1	
LCSD 580-440599/3	Lab Control Sample Dup	Total/NA	Water	310.1	
590-21892-1 DU	DMW-2	Total/NA	Water	310.1	

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: DMW-2

Date Collected: 10/03/23 09:15

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	43 mL	43 mL	43978	10/09/23 17:55	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	43980	10/09/23 17:55	JSP	EET SPK
Total/NA	Prep	3510C			228.8 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 15:10	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 15:19	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43961	10/06/23 17:37	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 13:37	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 20:39	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:03	MLT	EET SEA

Client Sample ID: FW-14

Date Collected: 10/03/23 10:04

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 19:00	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43980	10/09/23 19:00	JSP	EET SPK
Total/NA	Prep	3510C			260.5 mL	2 mL	43945	10/06/23 10:17	MRV	EET SPK
Total/NA	Analysis	8270E SIM		1	1 uL	1 uL	43966	10/06/23 18:59	NMI	EET SPK
Total/NA	Prep	3510C			264.2 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 16:15	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 15:58	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43961	10/06/23 18:09	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:15	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:12	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:03	MLT	EET SEA

Client Sample ID: FW-15

Date Collected: 10/03/23 11:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 19:21	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43980	10/09/23 19:21	JSP	EET SPK
Total/NA	Prep	3510C			226.2 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 16:37	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 16:07	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43961	10/06/23 18:19	NMI	EET SPK

Eurofins Spokane

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: FW-15

Date Collected: 10/03/23 11:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:17	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:15	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:03	MLT	EET SEA

Client Sample ID: FW-13

Date Collected: 10/03/23 11:44

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 19:43	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43980	10/09/23 19:43	JSP	EET SPK
Total/NA	Prep	3510C			246 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 16:59	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 16:17	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43907	10/04/23 16:17	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:20	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:17	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: G-18

Date Collected: 10/03/23 12:30

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 20:05	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43980	10/09/23 20:05	JSP	EET SPK
Total/NA	Prep	3510C			240.9 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 17:20	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 16:27	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43961	10/06/23 18:30	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:23	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:20	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: B-34

Date Collected: 10/03/23 13:06

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	43 mL	43 mL	44027	10/11/23 14:13	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	44054	10/12/23 13:09	JSP	EET SPK
Total/NA	Prep	3510C			246 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 18:04	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 16:36	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43907	10/04/23 16:36	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:25	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:23	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: RR-1

Date Collected: 10/03/23 14:05

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	43 mL	43 mL	44027	10/11/23 14:35	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	44054	10/12/23 13:31	JSP	EET SPK
Total/NA	Prep	3510C			233 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 18:26	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 16:46	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43961	10/06/23 18:41	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:28	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:25	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: RR-4

Date Collected: 10/03/23 14:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 21:32	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	44027	10/11/23 14:57	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	44054	10/12/23 13:52	JSP	EET SPK
Total/NA	Prep	3510C			250.8 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 18:47	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 17:15	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43961	10/06/23 18:52	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:30	FCW	EET SEA

Eurofins Spokane

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: RR-4

Date Collected: 10/03/23 14:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:28	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: G-8

Date Collected: 10/03/23 15:25

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 21:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 14:15	JSP	EET SPK
Total/NA	Prep	3510C			234.2 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 19:09	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 17:25	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43961	10/06/23 19:25	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:33	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:31	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: E-21

Date Collected: 10/03/23 15:35

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	43 mL	43 mL	44027	10/11/23 17:06	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	44054	10/12/23 14:37	JSP	EET SPK
Total/NA	Prep	3510C			245.7 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 19:31	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 17:35	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43961	10/06/23 19:36	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:36	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:33	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: RR-5

Date Collected: 10/03/23 16:06

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 22:36	JSP	EET SPK

Eurofins Spokane

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/6053745

Job ID: 590-21892-1

Client Sample ID: RR-5

Date Collected: 10/03/23 16:06

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 14:59	JSP	EET SPK
Total/NA	Prep	3510C			244.8 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 19:53	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 17:44	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43961	10/06/23 19:47	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:38	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:36	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: T-3

Date Collected: 10/03/23 00:00

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 22:58	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 15:21	JSP	EET SPK
Total/NA	Prep	3510C			231.4 mL	2 mL	43918	10/05/23 07:59	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 20:15	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43906	10/04/23 17:54	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43961	10/06/23 19:57	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 14:57	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	440560	10/11/23 15:25	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	440743	10/12/23 21:52	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440599	10/11/23 19:04	MLT	EET SEA

Client Sample ID: TB-1-231003

Date Collected: 10/03/23 00:00

Date Received: 10/04/23 10:17

Lab Sample ID: 590-21892-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 23:20	JSP	EET SPK

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Eurofins Spokane

Definitions/Glossary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: AECOM

Job ID: 590-21892-1

Project/Site: Tacoma D St Terminal/6053745

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24

Laboratory: Eurofins Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-24
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-24
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Spokane

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590-21892 Chain of Custody

eurofins | Environment Testing

Ver: 06/08/2018/18/2023



Client Information (Sub Contract Lab)			Lab PW: Arrington, Randee E		Carrier Tracking No(s): 590-8302.1																																																																																																															
Shipping/Receiving Company: Eurofins Environment Testing Northwest,			E-Mail: Randee.Arrington@eurofins.com		Page: Page 1 of 2																																																																																																															
Address: 5755 8th Street East, City: Tacoma State, Zip: WA, 98424 Phone: 253-922-2310(Tel) Email: Project Name: Tacoma D SI Terminal/60674388 Site:			Accreditations Required (See note): State Program - Washington		Job #: 590-21892-1																																																																																																															
Due Date Requested: 10/17/2023 TAT Requested (days):			Analysis Requested																																																																																																																	
PO #: WO #: Project #: 59000882 SSOW#:			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Preservation Code</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>310.1/ Alkalinity only</th> <th>6020B/3005A Total Lead</th> <th>6020B/FIELD_FLTRD (MOD) Diss Pb & Mn</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>10/3/23</td> <td>09:15 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>09:15 Pacific</td> <td>MS</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>09:15 Pacific</td> <td>MSD</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>10:04 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>11:25 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>11:44 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>12:30 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>13:06 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>10/3/23</td> <td>14:05 Pacific</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> </table>				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	310.1/ Alkalinity only	6020B/3005A Total Lead	6020B/FIELD_FLTRD (MOD) Diss Pb & Mn	Total Number of Containers	Special Instructions/Note:	10/3/23	09:15 Pacific	Water					X	X	3		10/3/23	09:15 Pacific	MS					X	X	3		10/3/23	09:15 Pacific	MSD					X	X	3		10/3/23	10:04 Pacific	Water					X	X	3		10/3/23	11:25 Pacific	Water					X	X	3		10/3/23	11:44 Pacific	Water					X	X	3		10/3/23	12:30 Pacific	Water					X	X	3		10/3/23	13:06 Pacific	Water					X	X	3		10/3/23	14:05 Pacific	Water					X	X	3	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	310.1/ Alkalinity only	6020B/3005A Total Lead	6020B/FIELD_FLTRD (MOD) Diss Pb & Mn	Total Number of Containers	Special Instructions/Note:																																																																																																										
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10/3/23	14:05 Pacific	Water					X	X	3																																																																																																											
DMW-2 (590-21892-1) DMW-2 (590-21892-1MS) DMW-2 (590-21892-1MSD) FW-14 (590-21892-2) FW-15 (590-21892-3) FW-13 (590-21892-4) G-18 (590-21892-5) B-34 (590-21892-6) RR-1 (590-21892-7)			Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.																																																																																																																	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:																																																																																																																	
Relinquished by: <i>[Signature]</i> Relinquished by: Relinquished by: Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:			Relinquished by: <i>[Signature]</i> Relinquished by: Relinquished by: Cooler Temperature(s) °C and Other Remarks: IR9 2.6/2.9 1 TR9 15.3/15.6																																																																																																																	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-21892-1

Login Number: 21892

List Source: Eurofins Spokane

List Number: 1

Creator: Morris, Mackenzie 1

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-21892-1

Login Number: 21892

List Number: 2

Creator: Groves, Elizabeth

List Source: Eurofins Seattle

List Creation: 10/05/23 01:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 2.6c & IR9 15.3c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Renee Knecht
AECOM
1111 Third Ave
Suite 1600
Seattle, Washington 98101

Generated 10/19/2023 12:18:05 PM

JOB DESCRIPTION

Tacoma D St Terminal/60674388

JOB NUMBER

590-21922-1

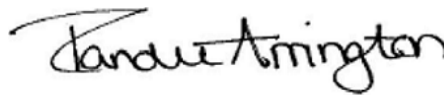
Eurofins Spokane

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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10/19/2023 12:18:05 PM

Authorized for release by
Randee Arrington, Business Unit Manager
Randee.Arrington@et.eurofinsus.com
(509)924-9200

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Case Narrative

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21922-1

Job ID: 590-21922-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative 590-21922-1

Receipt

The samples were received on 10/5/2023 12:19 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.6° C and 5.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: The method blank for preparation batch 590-43962 and analytical batch 590-43964 contained Residual Range Organics (RRO) (C25-C36) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel and/or a light weight oil in the following sample: DMW-3 (590-21922-1).

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel in the following samples: FW-5R (590-21922-2) and B-31 (590-21922-6).

Method NWTPH-Dx: Detected hydrocarbons appear to be due to a light weight oil and/or possible biogenic interference in the following sample: FW-4 (590-21922-3).

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel in the following samples: DMW-1 (590-21922-7), DUP-2 (590-21922-8) and RW-8 (590-21922-9).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap as well as heavily weathered diesel in the following samples: B-19 (590-21922-10) and E-22 (590-21922-12).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following samples: RW-5R (590-21922-13), RW-2 (590-21922-14), RR-3 (590-21922-15) and RR-2 (590-21922-16).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21922-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-21922-1	DMW-3	Water	10/04/23 09:30	10/05/23 12:19
590-21922-2	FW-5R	Water	10/04/23 09:40	10/05/23 12:19
590-21922-3	FW-4	Water	10/04/23 09:45	10/05/23 12:19
590-21922-4	FW-3	Water	10/04/23 11:20	10/05/23 12:19
590-21922-5	DUP-1	Water	10/04/23 12:00	10/05/23 12:19
590-21922-6	B-31	Water	10/04/23 11:25	10/05/23 12:19
590-21922-7	DMW-1	Water	10/04/23 11:00	10/05/23 12:19
590-21922-8	DUP-2	Water	10/04/23 13:00	10/05/23 12:19
590-21922-9	RW-8	Water	10/04/23 12:55	10/05/23 12:19
590-21922-10	B-19	Water	10/04/23 12:56	10/05/23 12:19
590-21922-11	B-17B	Water	10/04/23 13:15	10/05/23 12:19
590-21922-12	E-22	Water	10/04/23 13:45	10/05/23 12:19
590-21922-13	RW-5R	Water	10/04/23 14:50	10/05/23 12:19
590-21922-14	RW-2	Water	10/04/23 14:08	10/05/23 12:19
590-21922-15	RR-3	Water	10/04/23 15:40	10/05/23 12:19
590-21922-16	RR-2	Water	10/04/23 15:35	10/05/23 12:19
590-21922-17	TB-2	Water	10/04/23 00:00	10/05/23 12:19

Method Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SPK
300.0	Anions, Ion Chromatography	EPA	EET SPK
6020B	Metals (ICP/MS)	SW846	EET SEA
310.1	Alkalinity	EPA	EET SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SPK
5030C	Purge and Trap	SW846	EET SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DMW-3

Lab Sample ID: 590-21922-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Gasoline	56	J B	150	31	ug/L	1			NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	1.6		0.24	0.11	mg/L	1			NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.68	B	0.41	0.12	mg/L	1			NWTPH-Dx	Total/NA
Sulfate	7.0		2.0	0.51	mg/L	4			300.0	Total/NA
Manganese	0.39		0.010	0.0023	mg/L	5			6020B	Dissolved
Alkalinity	300		7.0	7.0	mg/L	1			310.1	Total/NA

Client Sample ID: FW-5R

Lab Sample ID: 590-21922-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Ethylbenzene	0.33	J	1.0	0.20	ug/L	1			8260D	Total/NA
Toluene	0.38	J	1.0	0.31	ug/L	1			8260D	Total/NA
Gasoline	80	J B	150	31	ug/L	1			NWTPH-Gx	Total/NA
Naphthalene	1.6		0.10	0.059	ug/L	1			8270E SIM	Total/NA
2-Methylnaphthalene	610		2.0	0.98	ug/L	20			8270E SIM	Total/NA
1-Methylnaphthalene	390		2.0	0.51	ug/L	20			8270E SIM	Total/NA
Diesel Range Organics (DRO) (C10-C25)	5.7		0.27	0.12	mg/L	1			NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.82	B	0.45	0.14	mg/L	1			NWTPH-Dx	Total/NA
Manganese	0.24		0.010	0.0023	mg/L	5			6020B	Dissolved
Alkalinity	270		7.0	7.0	mg/L	1			310.1	Total/NA

Client Sample ID: FW-4

Lab Sample ID: 590-21922-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Gasoline	78	J B	150	31	ug/L	1			NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.54		0.24	0.11	mg/L	1			NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.44	B	0.41	0.12	mg/L	1			NWTPH-Dx	Total/NA
Sulfate	1900		50	13	mg/L	100			300.0	Total/NA
Manganese	0.012		0.010	0.0023	mg/L	5			6020B	Dissolved
Alkalinity	91		7.0	7.0	mg/L	1			310.1	Total/NA

Client Sample ID: FW-3

Lab Sample ID: 590-21922-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Gasoline	63	J B	150	31	ug/L	1			NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.23	J	0.27	0.13	mg/L	1			NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.29	J B	0.46	0.14	mg/L	1			NWTPH-Dx	Total/NA
Nitrate as N	18		2.0	0.57	mg/L	10			300.0	Total/NA
Sulfate	1900		50	13	mg/L	100			300.0	Total/NA
Alkalinity	110		7.0	7.0	mg/L	1			310.1	Total/NA

Client Sample ID: DUP-1

Lab Sample ID: 590-21922-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Gasoline	56	J B	150	31	ug/L	1			NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.21	J	0.27	0.13	mg/L	1			NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Detection Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DUP-1 (Continued)

Lab Sample ID: 590-21922-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Residual Range Organics (RRO) (C25-C36)	0.30	J B	0.46	0.14	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	1.3	J	2.0	0.57	mg/L	10		300.0	Total/NA
Sulfate	1900		50	13	mg/L	100		300.0	Total/NA
Alkalinity	110		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: B-31

Lab Sample ID: 590-21922-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	8.0		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	12		2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	1.4		1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	3.4		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	14		3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	1300	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	3.8		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.79	B	0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.64	J	2.0	0.51	mg/L	4		300.0	Total/NA
Lead	0.0034		0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.41		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	240		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: DMW-1

Lab Sample ID: 590-21922-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	420	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.40		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.87	J	2.0	0.57	mg/L	10		300.0	Total/NA
Sulfate	710		5.0	1.3	mg/L	10		300.0	Total/NA
Manganese	0.24		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	450		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: DUP-2

Lab Sample ID: 590-21922-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	75	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.63		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.22	J B	0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	1.2	J	2.0	0.57	mg/L	10		300.0	Total/NA
Sulfate	740		5.0	1.3	mg/L	10		300.0	Total/NA
Manganese	0.25		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	450		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RW-8

Lab Sample ID: 590-21922-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	130	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Detection Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RW-8 (Continued)

Lab Sample ID: 590-21922-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	1.1		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.35	J B	0.42	0.13	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	15		5.0	1.3	mg/L	10		300.0	Total/NA
Manganese	0.11		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	260		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: B-19

Lab Sample ID: 590-21922-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.1		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	5.4		1.0	0.20	ug/L	1		8260D	Total/NA
Toluene	0.82	J	1.0	0.31	ug/L	1		8260D	Total/NA
Gasoline	970	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.80		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.20	J B	0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.65	J	0.80	0.23	mg/L	4		300.0	Total/NA
Sulfate	320		2.0	0.51	mg/L	4		300.0	Total/NA
Lead	0.00058	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.24		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	400		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: B-17B

Lab Sample ID: 590-21922-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	49	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.11	J	0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	4.3		0.80	0.23	mg/L	4		300.0	Total/NA
Sulfate	250		2.0	0.51	mg/L	4		300.0	Total/NA
Manganese	0.16		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	71		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: E-22

Lab Sample ID: 590-21922-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	83	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.41		0.27	0.13	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.14	J B	0.46	0.14	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.86	J	2.0	0.57	mg/L	10		300.0	Total/NA
Sulfate	390		5.0	1.3	mg/L	10		300.0	Total/NA
Manganese	0.011		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	440		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RW-5R

Lab Sample ID: 590-21922-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	29		1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Detection Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RW-5R (Continued)

Lab Sample ID: 590-21922-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.67	J	1.0	0.31	ug/L	1		8260D	Total/NA
Gasoline	7100	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	2.4		0.25	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	2.7		0.80	0.23	mg/L	4		300.0	Total/NA
Manganese	1.1		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	520		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RW-2

Lab Sample ID: 590-21922-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.35	J	0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	1.9		1.0	0.20	ug/L	1		8260D	Total/NA
o-Xylene	0.61	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	0.40	J	1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	0.61	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	1500	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.81		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.15	J B	0.41	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	0.79	J	0.80	0.23	mg/L	4		300.0	Total/NA
Manganese	0.80		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	420		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-3

Lab Sample ID: 590-21922-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	48	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.12	J	0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	1.4	J	2.0	0.57	mg/L	10		300.0	Total/NA
Sulfate	2300		50	13	mg/L	100		300.0	Total/NA
Manganese	0.0039	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	93		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-2

Lab Sample ID: 590-21922-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	53	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.13	J	0.27	0.12	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	1.3	J	2.0	0.57	mg/L	10		300.0	Total/NA
Sulfate	2500		50	13	mg/L	100		300.0	Total/NA
Manganese	0.0024	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	91		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: TB-2

Lab Sample ID: 590-21922-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DMW-3

Lab Sample ID: 590-21922-1

Date Collected: 10/04/23 09:30

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 23:42	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 23:42	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 23:42	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 23:42	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 23:42	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		10/09/23 23:42	1
4-Bromofluorobenzene (Surr)	108		76 - 120		10/09/23 23:42	1
Dibromofluoromethane (Surr)	97		80 - 123		10/09/23 23:42	1
Toluene-d8 (Surr)	105		80 - 120		10/09/23 23:42	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	56	J B	150	31	ug/L			10/12/23 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134		68.7 - 141		10/12/23 16:03	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1.6		0.24	0.11	mg/L		10/06/23 12:29	10/06/23 18:17	1
Residual Range Organics (RRO) (C25-C36)	0.68	B	0.41	0.12	mg/L		10/06/23 12:29	10/06/23 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	10/06/23 12:29	10/06/23 18:17	1
n-Triacontane-d62	77		50 - 150	10/06/23 12:29	10/06/23 18:17	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.80	0.23	mg/L			10/05/23 20:36	4
Sulfate	7.0		2.0	0.51	mg/L			10/05/23 20:36	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:15	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:00	5
Manganese	0.39		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:00	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	300		7.0	7.0	mg/L			10/11/23 22:17	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: FW-5R

Lab Sample ID: 590-21922-2

Date Collected: 10/04/23 09:40

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 00:03	1
Ethylbenzene	0.33	J	1.0	0.20	ug/L			10/10/23 00:03	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 00:03	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 00:03	1
Toluene	0.38	J	1.0	0.31	ug/L			10/10/23 00:03	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		10/10/23 00:03	1
4-Bromofluorobenzene (Surr)	105		76 - 120		10/10/23 00:03	1
Dibromofluoromethane (Surr)	98		80 - 123		10/10/23 00:03	1
Toluene-d8 (Surr)	102		80 - 120		10/10/23 00:03	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	80	J B	150	31	ug/L			10/12/23 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		68.7 - 141		10/12/23 16:25	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.6		0.10	0.059	ug/L		10/06/23 10:17	10/06/23 19:22	1
2-Methylnaphthalene	610		2.0	0.98	ug/L		10/06/23 10:17	10/10/23 17:32	20
1-Methylnaphthalene	390		2.0	0.51	ug/L		10/06/23 10:17	10/10/23 17:32	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		44 - 120	10/06/23 10:17	10/06/23 19:22	1
Nitrobenzene-d5	0	S1-	44 - 120	10/06/23 10:17	10/10/23 17:32	20

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	5.7		0.27	0.12	mg/L		10/06/23 12:29	10/06/23 18:39	1
Residual Range Organics (RRO) (C25-C36)	0.82	B	0.45	0.14	mg/L		10/06/23 12:29	10/06/23 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150	10/06/23 12:29	10/06/23 18:39	1
n-Triacontane-d62	77		50 - 150	10/06/23 12:29	10/06/23 18:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.80	0.23	mg/L			10/05/23 20:46	4
Sulfate	ND		2.0	0.51	mg/L			10/05/23 20:46	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:17	5

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: FW-5R

Lab Sample ID: 590-21922-2

Date Collected: 10/04/23 09:40

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:02	5
Manganese	0.24		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:02	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	270		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: FW-4

Lab Sample ID: 590-21922-3

Date Collected: 10/04/23 09:45

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 00:47	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 00:47	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 00:47	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 00:47	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 00:47	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 120		10/10/23 00:47	1
4-Bromofluorobenzene (Surr)	117		76 - 120		10/10/23 00:47	1
Dibromofluoromethane (Surr)	93		80 - 123		10/10/23 00:47	1
Toluene-d8 (Surr)	101		80 - 120		10/10/23 00:47	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	78	J B	150	31	ug/L			10/12/23 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141		68.7 - 141		10/12/23 16:47	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.086	0.051	ug/L		10/06/23 10:17	10/06/23 19:44	1
2-Methylnaphthalene	ND		0.086	0.042	ug/L		10/06/23 10:17	10/06/23 19:44	1
1-Methylnaphthalene	ND		0.086	0.022	ug/L		10/06/23 10:17	10/06/23 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		44 - 120	10/06/23 10:17	10/06/23 19:44	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.54		0.24	0.11	mg/L		10/06/23 12:29	10/06/23 19:01	1
(C10-C25)									
Residual Range Organics (RRO)	0.44	B	0.41	0.12	mg/L		10/06/23 12:29	10/06/23 19:01	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 150	10/06/23 12:29	10/06/23 19:01	1
n-Triacontane-d62	80		50 - 150	10/06/23 12:29	10/06/23 19:01	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: FW-4

Lab Sample ID: 590-21922-3

Date Collected: 10/04/23 09:45

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		2.0	0.57	mg/L			10/05/23 20:57	10
Sulfate	1900		50	13	mg/L			10/06/23 22:20	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:20	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:05	5
Manganese	0.012		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:05	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	91		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: FW-3

Lab Sample ID: 590-21922-4

Date Collected: 10/04/23 11:20

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 01:08	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 01:08	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 01:08	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 01:08	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 01:08	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		10/10/23 01:08	1
4-Bromofluorobenzene (Surr)	117		76 - 120		10/10/23 01:08	1
Dibromofluoromethane (Surr)	93		80 - 123		10/10/23 01:08	1
Toluene-d8 (Surr)	102		80 - 120		10/10/23 01:08	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	63	J B	150	31	ug/L			10/12/23 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	68.7 - 141		10/12/23 17:08	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.23	J	0.27	0.13	mg/L		10/06/23 12:29	10/06/23 19:22	1
(C10-C25)									
Residual Range Organics (RRO)	0.29	J B	0.46	0.14	mg/L		10/06/23 12:29	10/06/23 19:22	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	10/06/23 12:29	10/06/23 19:22	1
n-Triacontane-d62	81		50 - 150	10/06/23 12:29	10/06/23 19:22	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: FW-3

Lab Sample ID: 590-21922-4

Date Collected: 10/04/23 11:20

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	18		2.0	0.57	mg/L			10/05/23 21:07	10
Sulfate	1900		50	13	mg/L			10/06/23 22:31	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:23	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:08	5
Manganese	ND		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:08	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	110		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: DUP-1

Lab Sample ID: 590-21922-5

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 01:30	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 01:30	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 01:30	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 01:30	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 01:30	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		80 - 120		10/10/23 01:30	1
4-Bromofluorobenzene (Surr)	116		76 - 120		10/10/23 01:30	1
Dibromofluoromethane (Surr)	94		80 - 123		10/10/23 01:30	1
Toluene-d8 (Surr)	104		80 - 120		10/10/23 01:30	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	56	J B	150	31	ug/L			10/12/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	68.7 - 141		10/12/23 17:30	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.21	J	0.27	0.13	mg/L		10/06/23 12:29	10/06/23 19:44	1
Residual Range Organics (RRO) (C25-C36)	0.30	J B	0.46	0.14	mg/L		10/06/23 12:29	10/06/23 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	10/06/23 12:29	10/06/23 19:44	1
n-Triacontane-d62	85		50 - 150	10/06/23 12:29	10/06/23 19:44	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DUP-1

Lab Sample ID: 590-21922-5

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.3	J	2.0	0.57	mg/L			10/05/23 21:18	10
Sulfate	1900		50	13	mg/L			10/06/23 23:03	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:25	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:10	5
Manganese	ND		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	110		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: B-31

Lab Sample ID: 590-21922-6

Date Collected: 10/04/23 11:25

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.4		0.40	0.093	ug/L			10/10/23 04:24	1
Ethylbenzene	8.0		1.0	0.20	ug/L			10/10/23 04:24	1
m,p-Xylene	12		2.0	0.28	ug/L			10/10/23 04:24	1
o-Xylene	1.4		1.0	0.16	ug/L			10/10/23 04:24	1
Toluene	3.4		1.0	0.31	ug/L			10/10/23 04:24	1
Xylenes, Total	14		3.0	0.44	ug/L			10/10/23 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		80 - 120		10/10/23 04:24	1
4-Bromofluorobenzene (Surr)	106		76 - 120		10/10/23 04:24	1
Dibromofluoromethane (Surr)	80		80 - 123		10/10/23 04:24	1
Toluene-d8 (Surr)	104		80 - 120		10/10/23 04:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1300	B	150	31	ug/L			10/10/23 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		68.7 - 141		10/10/23 04:24	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	3.8		0.25	0.11	mg/L		10/06/23 12:29	10/06/23 20:06	1
(C10-C25)									
Residual Range Organics (RRO)	0.79	B	0.41	0.12	mg/L		10/06/23 12:29	10/06/23 20:06	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	10/06/23 12:29	10/06/23 20:06	1
n-Triacontane-d62	74		50 - 150	10/06/23 12:29	10/06/23 20:06	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: B-31

Lab Sample ID: 590-21922-6

Date Collected: 10/04/23 11:25

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.80	0.23	mg/L			10/05/23 21:29	4
Sulfate	0.64	J	2.0	0.51	mg/L			10/05/23 21:29	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:28	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:13	5
Manganese	0.41		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	240		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: DMW-1

Lab Sample ID: 590-21922-7

Date Collected: 10/04/23 11:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 04:45	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 04:45	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 04:45	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 04:45	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 04:45	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		10/10/23 04:45	1
4-Bromofluorobenzene (Surr)	115		76 - 120		10/10/23 04:45	1
Dibromofluoromethane (Surr)	95		80 - 123		10/10/23 04:45	1
Toluene-d8 (Surr)	101		80 - 120		10/10/23 04:45	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	420	B	150	31	ug/L			10/10/23 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		68.7 - 141		10/10/23 04:45	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.40		0.24	0.11	mg/L		10/06/23 12:29	10/09/23 10:05	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		10/06/23 12:29	10/09/23 10:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	10/06/23 12:29	10/09/23 10:05	1
n-Triacontane-d62	82		50 - 150	10/06/23 12:29	10/09/23 10:05	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DMW-1

Lab Sample ID: 590-21922-7

Date Collected: 10/04/23 11:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.87	J	2.0	0.57	mg/L			10/05/23 21:40	10
Sulfate	710		5.0	1.3	mg/L			10/05/23 21:40	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:30	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:16	5
Manganese	0.24		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:16	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	450		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: DUP-2

Lab Sample ID: 590-21922-8

Date Collected: 10/04/23 13:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 05:07	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 05:07	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 05:07	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 05:07	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 05:07	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/10/23 05:07	1
4-Bromofluorobenzene (Surr)	110		76 - 120		10/10/23 05:07	1
Dibromofluoromethane (Surr)	107		80 - 123		10/10/23 05:07	1
Toluene-d8 (Surr)	98		80 - 120		10/10/23 05:07	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	75	J B	150	31	ug/L			10/10/23 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		68.7 - 141		10/10/23 05:07	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.63		0.24	0.11	mg/L		10/06/23 12:29	10/09/23 10:27	1
(C10-C25)									
Residual Range Organics (RRO)	0.22	J B	0.41	0.12	mg/L		10/06/23 12:29	10/09/23 10:27	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	109		50 - 150	10/06/23 12:29	10/09/23 10:27	1
n-Triacontane-d62	102		50 - 150	10/06/23 12:29	10/09/23 10:27	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DUP-2

Lab Sample ID: 590-21922-8

Date Collected: 10/04/23 13:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.2	J	2.0	0.57	mg/L			10/05/23 22:12	10
Sulfate	740		5.0	1.3	mg/L			10/05/23 22:12	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:33	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 15:18	5
Manganese	0.25		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 15:18	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	450		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: RW-8

Lab Sample ID: 590-21922-9

Date Collected: 10/04/23 12:55

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 05:29	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 05:29	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 05:29	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 05:29	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 05:29	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		10/10/23 05:29	1
4-Bromofluorobenzene (Surr)	114		76 - 120		10/10/23 05:29	1
Dibromofluoromethane (Surr)	96		80 - 123		10/10/23 05:29	1
Toluene-d8 (Surr)	103		80 - 120		10/10/23 05:29	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	130	J B	150	31	ug/L			10/10/23 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		68.7 - 141		10/10/23 05:29	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	1.1		0.25	0.11	mg/L		10/06/23 12:29	10/09/23 10:48	1
(C10-C25)									
Residual Range Organics (RRO)	0.35	J B	0.42	0.13	mg/L		10/06/23 12:29	10/09/23 10:48	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	106		50 - 150	10/06/23 12:29	10/09/23 10:48	1
n-Triacontane-d62	101		50 - 150	10/06/23 12:29	10/09/23 10:48	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RW-8

Lab Sample ID: 590-21922-9

Date Collected: 10/04/23 12:55

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		2.0	0.57	mg/L			10/05/23 22:23	10
Sulfate	15		5.0	1.3	mg/L			10/05/23 22:23	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:36	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:23	5
Manganese	0.11		0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	260		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: B-19

Lab Sample ID: 590-21922-10

Date Collected: 10/04/23 12:56

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.1		0.40	0.093	ug/L			10/10/23 05:51	1
Ethylbenzene	5.4		1.0	0.20	ug/L			10/10/23 05:51	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 05:51	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 05:51	1
Toluene	0.82	J	1.0	0.31	ug/L			10/10/23 05:51	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		10/10/23 05:51	1
4-Bromofluorobenzene (Surr)	105		76 - 120		10/10/23 05:51	1
Dibromofluoromethane (Surr)	91		80 - 123		10/10/23 05:51	1
Toluene-d8 (Surr)	99		80 - 120		10/10/23 05:51	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	970	B	150	31	ug/L			10/10/23 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		68.7 - 141		10/10/23 05:51	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.80		0.24	0.11	mg/L		10/06/23 12:29	10/09/23 11:10	1
(C10-C25)									
Residual Range Organics (RRO)	0.20	J B	0.41	0.12	mg/L		10/06/23 12:29	10/09/23 11:10	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	10/06/23 12:29	10/09/23 11:10	1
n-Triacontane-d62	87		50 - 150	10/06/23 12:29	10/09/23 11:10	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: B-19

Lab Sample ID: 590-21922-10

Date Collected: 10/04/23 12:56

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.65	J	0.80	0.23	mg/L			10/05/23 22:34	4
Sulfate	320		2.0	0.51	mg/L			10/05/23 22:34	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00058	J	0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:38	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:26	5
Manganese	0.24		0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	400		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: B-17B

Lab Sample ID: 590-21922-11

Date Collected: 10/04/23 13:15

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 06:12	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 06:12	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 06:12	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 06:12	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 06:12	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		10/10/23 06:12	1
4-Bromofluorobenzene (Surr)	114		76 - 120		10/10/23 06:12	1
Dibromofluoromethane (Surr)	99		80 - 123		10/10/23 06:12	1
Toluene-d8 (Surr)	100		80 - 120		10/10/23 06:12	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	49	J B	150	31	ug/L			10/10/23 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		68.7 - 141		10/10/23 06:12	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.11	J	0.24	0.11	mg/L		10/06/23 12:29	10/09/23 11:32	1
Residual Range Organics (RRO) (C25-C36)	ND		0.41	0.12	mg/L		10/06/23 12:29	10/09/23 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150	10/06/23 12:29	10/09/23 11:32	1
n-Triacontane-d62	91		50 - 150	10/06/23 12:29	10/09/23 11:32	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: B-17B

Lab Sample ID: 590-21922-11

Date Collected: 10/04/23 13:15

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.3		0.80	0.23	mg/L			10/06/23 10:04	4
Sulfate	250		2.0	0.51	mg/L			10/06/23 10:04	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 16:57	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:29	5
Manganese	0.16		0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:29	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	71		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: E-22

Lab Sample ID: 590-21922-12

Date Collected: 10/04/23 13:45

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 06:34	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 06:34	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 06:34	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 06:34	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 06:34	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		10/10/23 06:34	1
4-Bromofluorobenzene (Surr)	111		76 - 120		10/10/23 06:34	1
Dibromofluoromethane (Surr)	98		80 - 123		10/10/23 06:34	1
Toluene-d8 (Surr)	102		80 - 120		10/10/23 06:34	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	83	J B	150	31	ug/L			10/10/23 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		68.7 - 141		10/10/23 06:34	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.41		0.27	0.13	mg/L		10/06/23 12:29	10/09/23 11:54	1
Residual Range Organics (RRO) (C25-C36)	0.14	J B	0.46	0.14	mg/L		10/06/23 12:29	10/09/23 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150	10/06/23 12:29	10/09/23 11:54	1
n-Triacontane-d62	90		50 - 150	10/06/23 12:29	10/09/23 11:54	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: E-22

Lab Sample ID: 590-21922-12

Date Collected: 10/04/23 13:45

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.86	J	2.0	0.57	mg/L			10/06/23 10:14	10
Sulfate	390		5.0	1.3	mg/L			10/06/23 10:14	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 17:00	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:08	5
Manganese	0.011		0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:08	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	440		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: RW-5R

Lab Sample ID: 590-21922-13

Date Collected: 10/04/23 14:50

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14		0.40	0.093	ug/L			10/10/23 06:56	1
Ethylbenzene	29		1.0	0.20	ug/L			10/10/23 06:56	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 06:56	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 06:56	1
Toluene	0.67	J	1.0	0.31	ug/L			10/10/23 06:56	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		80 - 120		10/10/23 06:56	1
4-Bromofluorobenzene (Surr)	108		76 - 120		10/10/23 06:56	1
Dibromofluoromethane (Surr)	81		80 - 123		10/10/23 06:56	1
Toluene-d8 (Surr)	99		80 - 120		10/10/23 06:56	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	7100	B	150	31	ug/L			10/10/23 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141		10/10/23 06:56	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	2.4		0.25	0.12	mg/L		10/06/23 12:29	10/09/23 12:15	1
(C10-C25)									
Residual Range Organics (RRO)	ND		0.42	0.13	mg/L		10/06/23 12:29	10/09/23 12:15	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150	10/06/23 12:29	10/09/23 12:15	1
n-Triacontane-d62	90		50 - 150	10/06/23 12:29	10/09/23 12:15	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RW-5R

Lab Sample ID: 590-21922-13

Date Collected: 10/04/23 14:50

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.7		0.80	0.23	mg/L			10/06/23 10:23	4
Sulfate	ND		2.0	0.51	mg/L			10/06/23 10:23	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 17:03	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:10	5
Manganese	1.1		0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	520		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: RW-2

Lab Sample ID: 590-21922-14

Date Collected: 10/04/23 14:08

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.35	J	0.40	0.093	ug/L			10/10/23 07:17	1
Ethylbenzene	1.9		1.0	0.20	ug/L			10/10/23 07:17	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 07:17	1
o-Xylene	0.61	J	1.0	0.16	ug/L			10/10/23 07:17	1
Toluene	0.40	J	1.0	0.31	ug/L			10/10/23 07:17	1
Xylenes, Total	0.61	J	3.0	0.44	ug/L			10/10/23 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		80 - 120		10/10/23 07:17	1
4-Bromofluorobenzene (Surr)	112		76 - 120		10/10/23 07:17	1
Dibromofluoromethane (Surr)	88		80 - 123		10/10/23 07:17	1
Toluene-d8 (Surr)	102		80 - 120		10/10/23 07:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1500	B	150	31	ug/L			10/10/23 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		68.7 - 141		10/10/23 07:17	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.81		0.24	0.11	mg/L		10/06/23 12:29	10/09/23 12:37	1
(C10-C25)									
Residual Range Organics (RRO)	0.15	J B	0.41	0.12	mg/L		10/06/23 12:29	10/09/23 12:37	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150	10/06/23 12:29	10/09/23 12:37	1
n-Triacontane-d62	92		50 - 150	10/06/23 12:29	10/09/23 12:37	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RW-2

Lab Sample ID: 590-21922-14

Date Collected: 10/04/23 14:08

Matrix: Water

Date Received: 10/05/23 12:19

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.79	J	0.80	0.23	mg/L			10/06/23 10:33	4
Sulfate	ND		2.0	0.51	mg/L			10/06/23 10:33	4

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 17:05	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:13	5
Manganese	0.80		0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	420		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: RR-3

Lab Sample ID: 590-21922-15

Date Collected: 10/04/23 15:40

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 08:01	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 08:01	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 08:01	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 08:01	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 08:01	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		10/10/23 08:01	1
4-Bromofluorobenzene (Surr)	119		76 - 120		10/10/23 08:01	1
Dibromofluoromethane (Surr)	95		80 - 123		10/10/23 08:01	1
Toluene-d8 (Surr)	102		80 - 120		10/10/23 08:01	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	48	J B	150	31	ug/L			10/10/23 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		68.7 - 141		10/10/23 08:01	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.086	0.051	ug/L		10/06/23 10:17	10/06/23 20:06	1
2-Methylnaphthalene	ND		0.086	0.042	ug/L		10/06/23 10:17	10/06/23 20:06	1
1-Methylnaphthalene	ND		0.086	0.022	ug/L		10/06/23 10:17	10/06/23 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		44 - 120	10/06/23 10:17	10/06/23 20:06	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RR-3

Lab Sample ID: 590-21922-15

Date Collected: 10/04/23 15:40

Matrix: Water

Date Received: 10/05/23 12:19

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.12	J	0.24	0.11	mg/L		10/06/23 12:29	10/09/23 12:59	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		10/06/23 12:29	10/09/23 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 150				10/06/23 12:29	10/09/23 12:59	1
n-Triacontane-d62	93		50 - 150				10/06/23 12:29	10/09/23 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.4	J	2.0	0.57	mg/L			10/06/23 10:43	10
Sulfate	2300		50	13	mg/L			10/06/23 23:14	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 17:08	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:16	5
Manganese	0.0039	J	0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:16	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	93		7.0	7.0	mg/L			10/11/23 22:17	1

Client Sample ID: RR-2

Lab Sample ID: 590-21922-16

Date Collected: 10/04/23 15:35

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 08:23	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 08:23	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 08:23	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 08:23	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 08:23	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 08:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120					10/10/23 08:23	1
4-Bromofluorobenzene (Surr)	115		76 - 120					10/10/23 08:23	1
Dibromofluoromethane (Surr)	97		80 - 123					10/10/23 08:23	1
Toluene-d8 (Surr)	104		80 - 120					10/10/23 08:23	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	53	J B	150	31	ug/L			10/10/23 08:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		68.7 - 141					10/10/23 08:23	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RR-2

Lab Sample ID: 590-21922-16

Date Collected: 10/04/23 15:35

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.061	ug/L		10/06/23 10:17	10/06/23 20:28	1
2-Methylnaphthalene	ND		0.10	0.051	ug/L		10/06/23 10:17	10/06/23 20:28	1
1-Methylnaphthalene	ND		0.10	0.027	ug/L		10/06/23 10:17	10/06/23 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		44 - 120				10/06/23 10:17	10/06/23 20:28	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.13	J	0.27	0.12	mg/L		10/06/23 12:29	10/09/23 13:21	1
(C10-C25)									
Residual Range Organics (RRO)	ND		0.45	0.14	mg/L		10/06/23 12:29	10/09/23 13:21	1
(C25-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	103		50 - 150				10/06/23 12:29	10/09/23 13:21	1
n-Triacontane-d62	96		50 - 150				10/06/23 12:29	10/09/23 13:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.3	J	2.0	0.57	mg/L			10/06/23 10:53	10
Sulfate	2500		50	13	mg/L			10/06/23 23:25	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 17:11	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/17/23 16:49	10/18/23 12:18	5
Manganese	0.0024	J	0.010	0.0023	mg/L		10/17/23 16:49	10/18/23 12:18	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	91		7.0	7.0	mg/L			10/14/23 22:09	1

Client Sample ID: TB-2

Lab Sample ID: 590-21922-17

Date Collected: 10/04/23 00:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 08:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 08:44	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 08:44	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 08:44	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 08:44	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 08:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		80 - 120					10/10/23 08:44	1
4-Bromofluorobenzene (Surr)	113		76 - 120					10/10/23 08:44	1

Eurofins Spokane

Client Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: TB-2

Lab Sample ID: 590-21922-17

Date Collected: 10/04/23 00:00

Matrix: Water

Date Received: 10/05/23 12:19

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 123		10/10/23 08:44	1
Toluene-d8 (Surr)	104		80 - 120		10/10/23 08:44	1

QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-43978/6

Matrix: Water

Analysis Batch: 43978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/09/23 16:50	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/09/23 16:50	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/09/23 16:50	1
o-Xylene	ND		1.0	0.16	ug/L			10/09/23 16:50	1
Toluene	ND		1.0	0.31	ug/L			10/09/23 16:50	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/09/23 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		80 - 120		10/09/23 16:50	1
4-Bromofluorobenzene (Surr)	111		76 - 120		10/09/23 16:50	1
Dibromofluoromethane (Surr)	91		80 - 123		10/09/23 16:50	1
Toluene-d8 (Surr)	104		80 - 120		10/09/23 16:50	1

Lab Sample ID: LCS 590-43978/1003

Matrix: Water

Analysis Batch: 43978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.39		ug/L		94	80 - 120
Ethylbenzene	10.0	10.9		ug/L		109	80 - 122
m,p-Xylene	10.0	11.0		ug/L		110	80 - 125
o-Xylene	10.0	11.5		ug/L		115	80 - 130
Toluene	10.0	10.3		ug/L		103	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 120
4-Bromofluorobenzene (Surr)	110		76 - 120
Dibromofluoromethane (Surr)	91		80 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: LCSD 590-43978/4

Matrix: Water

Analysis Batch: 43978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.37		ug/L		94	80 - 120	0	15
Ethylbenzene	10.0	10.6		ug/L		106	80 - 122	2	35
m,p-Xylene	10.0	10.9		ug/L		109	80 - 125	1	35
o-Xylene	10.0	11.3		ug/L		113	80 - 130	2	35
Toluene	10.0	10.2		ug/L		102	80 - 129	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 120
4-Bromofluorobenzene (Surr)	109		76 - 120
Dibromofluoromethane (Surr)	90		80 - 123
Toluene-d8 (Surr)	102		80 - 120

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-43984/6

Matrix: Water

Analysis Batch: 43984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 04:02	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 04:02	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 04:02	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 04:02	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 04:02	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 04:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		10/10/23 04:02	1
4-Bromofluorobenzene (Surr)	108		76 - 120		10/10/23 04:02	1
Dibromofluoromethane (Surr)	94		80 - 123		10/10/23 04:02	1
Toluene-d8 (Surr)	103		80 - 120		10/10/23 04:02	1

Lab Sample ID: LCS 590-43984/1003

Matrix: Water

Analysis Batch: 43984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.07		ug/L		91	80 - 120
Ethylbenzene	10.0	9.87		ug/L		99	80 - 122
m,p-Xylene	10.0	10.1		ug/L		101	80 - 125
o-Xylene	10.0	10.4		ug/L		104	80 - 130
Toluene	10.0	9.80		ug/L		98	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		80 - 120
4-Bromofluorobenzene (Surr)	104		76 - 120
Dibromofluoromethane (Surr)	86		80 - 123
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 590-43984/4

Matrix: Water

Analysis Batch: 43984

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.02		ug/L		90	80 - 120	1	15
Ethylbenzene	10.0	10.0		ug/L		100	80 - 122	2	35
m,p-Xylene	10.0	10.2		ug/L		102	80 - 125	1	35
o-Xylene	10.0	10.5		ug/L		105	80 - 130	1	35
Toluene	10.0	9.88		ug/L		99	80 - 129	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		80 - 120
4-Bromofluorobenzene (Surr)	105		76 - 120
Dibromofluoromethane (Surr)	86		80 - 123
Toluene-d8 (Surr)	101		80 - 120

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-43986/6

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	44.1	J	150	31	ug/L			10/10/23 04:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141					10/10/23 04:02	1

Lab Sample ID: LCS 590-43986/1005

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1000	994		ug/L		99	80 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		68.7 - 141						

Lab Sample ID: LCSD 590-43986/1016

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline	1000	954		ug/L		95	80 - 120	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		68.7 - 141						

Lab Sample ID: MB 590-44054/7

Matrix: Water

Analysis Batch: 44054

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	37.6	J	150	31	ug/L			10/12/23 12:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141					10/12/23 12:25	1

Lab Sample ID: LCS 590-44054/1006

Matrix: Water

Analysis Batch: 44054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1000	1080		ug/L		108	80 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		68.7 - 141						

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 590-44054/1024

Matrix: Water

Analysis Batch: 44054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	922		ug/L		92	80 - 120	16	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		68.7 - 141						

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-43945/1-A

Matrix: Water

Analysis Batch: 43966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.090	0.053	ug/L		10/06/23 10:17	10/06/23 16:46	1
2-Methylnaphthalene	ND		0.090	0.044	ug/L		10/06/23 10:17	10/06/23 16:46	1
1-Methylnaphthalene	ND		0.090	0.023	ug/L		10/06/23 10:17	10/06/23 16:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
Nitrobenzene-d5	91		44 - 120						

Lab Sample ID: LCS 590-43945/2-A

Matrix: Water

Analysis Batch: 43990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43945

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Naphthalene			1.60	1.04		ug/L		65	47 - 120		
2-Methylnaphthalene			1.60	1.06		ug/L		66	46 - 120		
1-Methylnaphthalene			1.60	1.06		ug/L		66	49 - 120		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	84		44 - 120								

Lab Sample ID: LCSD 590-43945/3-A

Matrix: Water

Analysis Batch: 43966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.60	1.15		ug/L		72	47 - 120	10	30
2-Methylnaphthalene	1.60	1.17		ug/L		73	46 - 120	10	34
1-Methylnaphthalene	1.60	1.21		ug/L		75	49 - 120	13	32
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Nitrobenzene-d5	93		44 - 120						

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-43962/1-A

Matrix: Water

Analysis Batch: 43964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.24	0.11	mg/L		10/06/23 12:29	10/06/23 16:51	1
Residual Range Organics (RRO) (C25-C36)	0.150	J	0.40	0.12	mg/L		10/06/23 12:29	10/06/23 16:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				10/06/23 12:29	10/06/23 16:51	1
<i>n</i> -Triacontane-d62	76		50 - 150				10/06/23 12:29	10/06/23 16:51	1

Lab Sample ID: LCS 590-43962/2-A

Matrix: Water

Analysis Batch: 43964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.26		mg/L		79	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.61		mg/L		100	50 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	85		50 - 150				
<i>n</i> -Triacontane-d62	80		50 - 150				

Lab Sample ID: LCSD 590-43962/3-A

Matrix: Water

Analysis Batch: 43964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43962

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.28		mg/L		80	50 - 150	1	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.60		mg/L		100	50 - 150	1	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	85		50 - 150						
<i>n</i> -Triacontane-d62	79		50 - 150						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-43951/1003

Matrix: Water

Analysis Batch: 43951

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			10/05/23 17:49	1

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 590-43951/1004

Matrix: Water

Analysis Batch: 43951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: MB 590-43952/1003

Matrix: Water

Analysis Batch: 43952

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/05/23 17:49	1

Lab Sample ID: LCS 590-43952/1004

Matrix: Water

Analysis Batch: 43952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.6		mg/L		101	90 - 110

Lab Sample ID: MB 590-43955/1003

Matrix: Water

Analysis Batch: 43955

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			10/06/23 09:44	1

Lab Sample ID: LCS 590-43955/1004

Matrix: Water

Analysis Batch: 43955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.09		mg/L		102	90 - 110

Lab Sample ID: MB 590-43956/1003

Matrix: Water

Analysis Batch: 43956

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/06/23 09:44	1

Lab Sample ID: LCS 590-43956/1004

Matrix: Water

Analysis Batch: 43956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.6		mg/L		100	90 - 110

Lab Sample ID: MB 590-43973/1001

Matrix: Water

Analysis Batch: 43973

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/06/23 20:30	1

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QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 590-43973/1002

Matrix: Water

Analysis Batch: 43973

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.4		mg/L		100	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-441010/21-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 441010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:21	10/17/23 15:37	5

Lab Sample ID: LCS 580-441010/22-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 441010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	0.986		mg/L		99	80 - 120

Lab Sample ID: LCSD 580-441010/23-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 441010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.989		mg/L		99	80 - 120	0	20

Lab Sample ID: MB 580-441011/24-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 441011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/16/23 16:24	10/17/23 13:35	5
Manganese	ND		0.010	0.0023	mg/L		10/16/23 16:24	10/17/23 13:35	5

Lab Sample ID: LCS 580-441011/25-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 441011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	1.00		mg/L		100	80 - 120
Manganese	1.00	0.995		mg/L		99	80 - 120

Lab Sample ID: LCSD 580-441011/26-A

Matrix: Water

Analysis Batch: 441172

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 441011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.997		mg/L		100	80 - 120	0	20
Manganese	1.00	1.02		mg/L		102	80 - 120	3	20

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QC Sample Results

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-441142/19-A

Matrix: Water

Analysis Batch: 441309

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 441142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00040	0.000040	mg/L		10/17/23 16:49	10/18/23 11:25	1
Manganese	ND		0.0020	0.00046	mg/L		10/17/23 16:49	10/18/23 11:25	1

Lab Sample ID: LCS 580-441142/20-A

Matrix: Water

Analysis Batch: 441309

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 441142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	0.968		mg/L		97	80 - 120
Manganese	1.00	1.19		mg/L		119	80 - 120

Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-440610/2

Matrix: Water

Analysis Batch: 440610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	85 - 115

Lab Sample ID: 590-21922-1 DU

Matrix: Water

Analysis Batch: 440610

Client Sample ID: DMW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	300		316		mg/L		4	17

Lab Sample ID: LCS 580-440880/2

Matrix: Water

Analysis Batch: 440880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	101		mg/L		101	85 - 115

Lab Sample ID: LCSD 580-440880/3

Matrix: Water

Analysis Batch: 440880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	100	96.3		mg/L		96	85 - 115	4	20

QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

GC/MS VOA

Analysis Batch: 43978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	8260D	
590-21922-2	FW-5R	Total/NA	Water	8260D	
590-21922-3	FW-4	Total/NA	Water	8260D	
590-21922-4	FW-3	Total/NA	Water	8260D	
590-21922-5	DUP-1	Total/NA	Water	8260D	
MB 590-43978/6	Method Blank	Total/NA	Water	8260D	
LCS 590-43978/1003	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-43978/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 43984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-6	B-31	Total/NA	Water	8260D	
590-21922-7	DMW-1	Total/NA	Water	8260D	
590-21922-8	DUP-2	Total/NA	Water	8260D	
590-21922-9	RW-8	Total/NA	Water	8260D	
590-21922-10	B-19	Total/NA	Water	8260D	
590-21922-11	B-17B	Total/NA	Water	8260D	
590-21922-12	E-22	Total/NA	Water	8260D	
590-21922-13	RW-5R	Total/NA	Water	8260D	
590-21922-14	RW-2	Total/NA	Water	8260D	
590-21922-15	RR-3	Total/NA	Water	8260D	
590-21922-16	RR-2	Total/NA	Water	8260D	
590-21922-17	TB-2	Total/NA	Water	8260D	
MB 590-43984/6	Method Blank	Total/NA	Water	8260D	
LCS 590-43984/1003	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-43984/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 43986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-6	B-31	Total/NA	Water	NWTPH-Gx	
590-21922-7	DMW-1	Total/NA	Water	NWTPH-Gx	
590-21922-8	DUP-2	Total/NA	Water	NWTPH-Gx	
590-21922-9	RW-8	Total/NA	Water	NWTPH-Gx	
590-21922-10	B-19	Total/NA	Water	NWTPH-Gx	
590-21922-11	B-17B	Total/NA	Water	NWTPH-Gx	
590-21922-12	E-22	Total/NA	Water	NWTPH-Gx	
590-21922-13	RW-5R	Total/NA	Water	NWTPH-Gx	
590-21922-14	RW-2	Total/NA	Water	NWTPH-Gx	
590-21922-15	RR-3	Total/NA	Water	NWTPH-Gx	
590-21922-16	RR-2	Total/NA	Water	NWTPH-Gx	
MB 590-43986/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-43986/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-43986/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 44054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	NWTPH-Gx	
590-21922-2	FW-5R	Total/NA	Water	NWTPH-Gx	
590-21922-3	FW-4	Total/NA	Water	NWTPH-Gx	
590-21922-4	FW-3	Total/NA	Water	NWTPH-Gx	
590-21922-5	DUP-1	Total/NA	Water	NWTPH-Gx	

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QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

GC/MS VOA (Continued)

Analysis Batch: 44054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 590-44054/7	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-44054/1006	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-44054/1024	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC/MS Semi VOA

Prep Batch: 43945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-2	FW-5R	Total/NA	Water	3510C	
590-21922-3	FW-4	Total/NA	Water	3510C	
590-21922-15	RR-3	Total/NA	Water	3510C	
590-21922-16	RR-2	Total/NA	Water	3510C	
MB 590-43945/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-43945/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-43945/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 43966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-2	FW-5R	Total/NA	Water	8270E SIM	43945
590-21922-3	FW-4	Total/NA	Water	8270E SIM	43945
590-21922-15	RR-3	Total/NA	Water	8270E SIM	43945
590-21922-16	RR-2	Total/NA	Water	8270E SIM	43945
MB 590-43945/1-A	Method Blank	Total/NA	Water	8270E SIM	43945
LCSD 590-43945/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	43945

Analysis Batch: 43990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-2	FW-5R	Total/NA	Water	8270E SIM	43945
LCS 590-43945/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	43945

GC Semi VOA

Prep Batch: 43962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	3510C	
590-21922-2	FW-5R	Total/NA	Water	3510C	
590-21922-3	FW-4	Total/NA	Water	3510C	
590-21922-4	FW-3	Total/NA	Water	3510C	
590-21922-5	DUP-1	Total/NA	Water	3510C	
590-21922-6	B-31	Total/NA	Water	3510C	
590-21922-7	DMW-1	Total/NA	Water	3510C	
590-21922-8	DUP-2	Total/NA	Water	3510C	
590-21922-9	RW-8	Total/NA	Water	3510C	
590-21922-10	B-19	Total/NA	Water	3510C	
590-21922-11	B-17B	Total/NA	Water	3510C	
590-21922-12	E-22	Total/NA	Water	3510C	
590-21922-13	RW-5R	Total/NA	Water	3510C	
590-21922-14	RW-2	Total/NA	Water	3510C	
590-21922-15	RR-3	Total/NA	Water	3510C	
590-21922-16	RR-2	Total/NA	Water	3510C	
MB 590-43962/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-43962/2-A	Lab Control Sample	Total/NA	Water	3510C	

Eurofins Spokane

QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

GC Semi VOA (Continued)

Prep Batch: 43962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 590-43962/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 43964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	NWTPH-Dx	43962
590-21922-2	FW-5R	Total/NA	Water	NWTPH-Dx	43962
590-21922-3	FW-4	Total/NA	Water	NWTPH-Dx	43962
590-21922-4	FW-3	Total/NA	Water	NWTPH-Dx	43962
590-21922-5	DUP-1	Total/NA	Water	NWTPH-Dx	43962
590-21922-6	B-31	Total/NA	Water	NWTPH-Dx	43962
MB 590-43962/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	43962
LCS 590-43962/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	43962
LCSD 590-43962/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	43962

Analysis Batch: 43970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-7	DMW-1	Total/NA	Water	NWTPH-Dx	43962
590-21922-8	DUP-2	Total/NA	Water	NWTPH-Dx	43962
590-21922-9	RW-8	Total/NA	Water	NWTPH-Dx	43962
590-21922-10	B-19	Total/NA	Water	NWTPH-Dx	43962
590-21922-11	B-17B	Total/NA	Water	NWTPH-Dx	43962
590-21922-12	E-22	Total/NA	Water	NWTPH-Dx	43962
590-21922-13	RW-5R	Total/NA	Water	NWTPH-Dx	43962
590-21922-14	RW-2	Total/NA	Water	NWTPH-Dx	43962
590-21922-15	RR-3	Total/NA	Water	NWTPH-Dx	43962
590-21922-16	RR-2	Total/NA	Water	NWTPH-Dx	43962

HPLC/IC

Analysis Batch: 43951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	300.0	
590-21922-2	FW-5R	Total/NA	Water	300.0	
590-21922-3	FW-4	Total/NA	Water	300.0	
590-21922-4	FW-3	Total/NA	Water	300.0	
590-21922-5	DUP-1	Total/NA	Water	300.0	
590-21922-6	B-31	Total/NA	Water	300.0	
590-21922-7	DMW-1	Total/NA	Water	300.0	
590-21922-8	DUP-2	Total/NA	Water	300.0	
590-21922-9	RW-8	Total/NA	Water	300.0	
590-21922-10	B-19	Total/NA	Water	300.0	
MB 590-43951/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-43951/1004	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 43952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	300.0	
590-21922-2	FW-5R	Total/NA	Water	300.0	
590-21922-6	B-31	Total/NA	Water	300.0	
590-21922-7	DMW-1	Total/NA	Water	300.0	
590-21922-8	DUP-2	Total/NA	Water	300.0	

Eurofins Spokane

QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

HPLC/IC (Continued)

Analysis Batch: 43952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-9	RW-8	Total/NA	Water	300.0	
590-21922-10	B-19	Total/NA	Water	300.0	
MB 590-43952/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-43952/1004	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 43955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-11	B-17B	Total/NA	Water	300.0	
590-21922-12	E-22	Total/NA	Water	300.0	
590-21922-13	RW-5R	Total/NA	Water	300.0	
590-21922-14	RW-2	Total/NA	Water	300.0	
590-21922-15	RR-3	Total/NA	Water	300.0	
590-21922-16	RR-2	Total/NA	Water	300.0	
MB 590-43955/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-43955/1004	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 43956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-11	B-17B	Total/NA	Water	300.0	
590-21922-12	E-22	Total/NA	Water	300.0	
590-21922-13	RW-5R	Total/NA	Water	300.0	
590-21922-14	RW-2	Total/NA	Water	300.0	
MB 590-43956/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-43956/1004	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 43973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-3	FW-4	Total/NA	Water	300.0	
590-21922-4	FW-3	Total/NA	Water	300.0	
590-21922-5	DUP-1	Total/NA	Water	300.0	
590-21922-15	RR-3	Total/NA	Water	300.0	
590-21922-16	RR-2	Total/NA	Water	300.0	
MB 590-43973/1001	Method Blank	Total/NA	Water	300.0	
LCS 590-43973/1002	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 441010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total Recoverable	Water	3005A	
590-21922-2	FW-5R	Total Recoverable	Water	3005A	
590-21922-3	FW-4	Total Recoverable	Water	3005A	
590-21922-4	FW-3	Total Recoverable	Water	3005A	
590-21922-5	DUP-1	Total Recoverable	Water	3005A	
590-21922-6	B-31	Total Recoverable	Water	3005A	
590-21922-7	DMW-1	Total Recoverable	Water	3005A	
590-21922-8	DUP-2	Total Recoverable	Water	3005A	
590-21922-9	RW-8	Total Recoverable	Water	3005A	
590-21922-10	B-19	Total Recoverable	Water	3005A	
590-21922-11	B-17B	Total Recoverable	Water	3005A	
590-21922-12	E-22	Total Recoverable	Water	3005A	

Eurofins Spokane

QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Metals (Continued)

Prep Batch: 441010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-13	RW-5R	Total Recoverable	Water	3005A	
590-21922-14	RW-2	Total Recoverable	Water	3005A	
590-21922-15	RR-3	Total Recoverable	Water	3005A	
590-21922-16	RR-2	Total Recoverable	Water	3005A	
MB 580-441010/21-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-441010/22-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-441010/23-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 441011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Dissolved	Water	3005A	
590-21922-2	FW-5R	Dissolved	Water	3005A	
590-21922-3	FW-4	Dissolved	Water	3005A	
590-21922-4	FW-3	Dissolved	Water	3005A	
590-21922-5	DUP-1	Dissolved	Water	3005A	
590-21922-6	B-31	Dissolved	Water	3005A	
590-21922-7	DMW-1	Dissolved	Water	3005A	
590-21922-8	DUP-2	Dissolved	Water	3005A	
MB 580-441011/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-441011/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-441011/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 441142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-9	RW-8	Dissolved	Water	3005A	
590-21922-10	B-19	Dissolved	Water	3005A	
590-21922-11	B-17B	Dissolved	Water	3005A	
590-21922-12	E-22	Dissolved	Water	3005A	
590-21922-13	RW-5R	Dissolved	Water	3005A	
590-21922-14	RW-2	Dissolved	Water	3005A	
590-21922-15	RR-3	Dissolved	Water	3005A	
590-21922-16	RR-2	Dissolved	Water	3005A	
MB 580-441142/19-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-441142/20-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 441172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Dissolved	Water	6020B	441011
590-21922-1	DMW-3	Total Recoverable	Water	6020B	441010
590-21922-2	FW-5R	Dissolved	Water	6020B	441011
590-21922-2	FW-5R	Total Recoverable	Water	6020B	441010
590-21922-3	FW-4	Dissolved	Water	6020B	441011
590-21922-3	FW-4	Total Recoverable	Water	6020B	441010
590-21922-4	FW-3	Dissolved	Water	6020B	441011
590-21922-4	FW-3	Total Recoverable	Water	6020B	441010
590-21922-5	DUP-1	Dissolved	Water	6020B	441011
590-21922-5	DUP-1	Total Recoverable	Water	6020B	441010
590-21922-6	B-31	Dissolved	Water	6020B	441011
590-21922-6	B-31	Total Recoverable	Water	6020B	441010
590-21922-7	DMW-1	Dissolved	Water	6020B	441011
590-21922-7	DMW-1	Total Recoverable	Water	6020B	441010

Eurofins Spokane

QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Metals (Continued)

Analysis Batch: 441172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-8	DUP-2	Dissolved	Water	6020B	441011
590-21922-8	DUP-2	Total Recoverable	Water	6020B	441010
590-21922-9	RW-8	Total Recoverable	Water	6020B	441010
590-21922-10	B-19	Total Recoverable	Water	6020B	441010
590-21922-11	B-17B	Total Recoverable	Water	6020B	441010
590-21922-12	E-22	Total Recoverable	Water	6020B	441010
590-21922-13	RW-5R	Total Recoverable	Water	6020B	441010
590-21922-14	RW-2	Total Recoverable	Water	6020B	441010
590-21922-15	RR-3	Total Recoverable	Water	6020B	441010
590-21922-16	RR-2	Total Recoverable	Water	6020B	441010
MB 580-441010/21-A	Method Blank	Total Recoverable	Water	6020B	441010
MB 580-441011/24-A	Method Blank	Total Recoverable	Water	6020B	441011
LCS 580-441010/22-A	Lab Control Sample	Total Recoverable	Water	6020B	441010
LCS 580-441011/25-A	Lab Control Sample	Total Recoverable	Water	6020B	441011
LCSD 580-441010/23-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	441010
LCSD 580-441011/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	441011

Analysis Batch: 441309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-9	RW-8	Dissolved	Water	6020B	441142
590-21922-10	B-19	Dissolved	Water	6020B	441142
590-21922-11	B-17B	Dissolved	Water	6020B	441142
590-21922-12	E-22	Dissolved	Water	6020B	441142
590-21922-13	RW-5R	Dissolved	Water	6020B	441142
590-21922-14	RW-2	Dissolved	Water	6020B	441142
590-21922-15	RR-3	Dissolved	Water	6020B	441142
590-21922-16	RR-2	Dissolved	Water	6020B	441142
MB 580-441142/19-A	Method Blank	Total Recoverable	Water	6020B	441142
LCS 580-441142/20-A	Lab Control Sample	Total Recoverable	Water	6020B	441142

General Chemistry

Analysis Batch: 440610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-1	DMW-3	Total/NA	Water	310.1	
590-21922-2	FW-5R	Total/NA	Water	310.1	
590-21922-3	FW-4	Total/NA	Water	310.1	
590-21922-4	FW-3	Total/NA	Water	310.1	
590-21922-5	DUP-1	Total/NA	Water	310.1	
590-21922-6	B-31	Total/NA	Water	310.1	
590-21922-7	DMW-1	Total/NA	Water	310.1	
590-21922-8	DUP-2	Total/NA	Water	310.1	
590-21922-9	RW-8	Total/NA	Water	310.1	
590-21922-10	B-19	Total/NA	Water	310.1	
590-21922-11	B-17B	Total/NA	Water	310.1	
590-21922-12	E-22	Total/NA	Water	310.1	
590-21922-13	RW-5R	Total/NA	Water	310.1	
590-21922-14	RW-2	Total/NA	Water	310.1	
590-21922-15	RR-3	Total/NA	Water	310.1	
LCS 580-440610/2	Lab Control Sample	Total/NA	Water	310.1	
590-21922-1 DU	DMW-3	Total/NA	Water	310.1	

Eurofins Spokane

QC Association Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

General Chemistry

Analysis Batch: 440880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21922-16	RR-2	Total/NA	Water	310.1	
LCS 580-440880/2	Lab Control Sample	Total/NA	Water	310.1	
LCSD 580-440880/3	Lab Control Sample Dup	Total/NA	Water	310.1	

Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DMW-3

Lab Sample ID: 590-21922-1

Date Collected: 10/04/23 09:30

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/09/23 23:42	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 16:03	JSP	EET SPK
Total/NA	Prep	3510C			246.6 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43964	10/06/23 18:17	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43951	10/05/23 20:36	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43952	10/05/23 20:36	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:00	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:15	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: FW-5R

Lab Sample ID: 590-21922-2

Date Collected: 10/04/23 09:40

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/10/23 00:03	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 16:25	JSP	EET SPK
Total/NA	Prep	3510C			225.6 mL	2 mL	43945	10/06/23 10:17	MRV	EET SPK
Total/NA	Analysis	8270E SIM		1	1 uL	1 uL	43966	10/06/23 19:22	NMI	EET SPK
Total/NA	Prep	3510C			225.6 mL	2 mL	43945	10/06/23 10:17	MRV	EET SPK
Total/NA	Analysis	8270E SIM		20	1 uL	1 uL	43990	10/10/23 17:32	NMI	EET SPK
Total/NA	Prep	3510C			222.2 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43964	10/06/23 18:39	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43951	10/05/23 20:46	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43952	10/05/23 20:46	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:02	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:17	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: FW-4

Lab Sample ID: 590-21922-3

Date Collected: 10/04/23 09:45

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/10/23 00:47	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 16:47	JSP	EET SPK
Total/NA	Prep	3510C			260.5 mL	2 mL	43945	10/06/23 10:17	MRV	EET SPK
Total/NA	Analysis	8270E SIM		1	1 uL	1 uL	43966	10/06/23 19:44	NMI	EET SPK
Total/NA	Prep	3510C			246.8 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43964	10/06/23 19:01	NMI	EET SPK

Eurofins Spokane

Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: FW-4

Lab Sample ID: 590-21922-3

Date Collected: 10/04/23 09:45

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	5 mL	5 mL	43951	10/05/23 20:57	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43973	10/06/23 22:20	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:05	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:20	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: FW-3

Lab Sample ID: 590-21922-4

Date Collected: 10/04/23 11:20

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/10/23 01:08	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 17:08	JSP	EET SPK
Total/NA	Prep	3510C			218.8 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43964	10/06/23 19:22	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43951	10/05/23 21:07	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43973	10/06/23 22:31	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:08	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:23	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: DUP-1

Lab Sample ID: 590-21922-5

Date Collected: 10/04/23 12:00

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43978	10/10/23 01:30	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	44054	10/12/23 17:30	JSP	EET SPK
Total/NA	Prep	3510C			219.7 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43964	10/06/23 19:44	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43951	10/05/23 21:18	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43973	10/06/23 23:03	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:10	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:25	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Eurofins Spokane

Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: B-31

Lab Sample ID: 590-21922-6

Date Collected: 10/04/23 11:25

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 04:24	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 04:24	JSP	EET SPK
Total/NA	Prep	3510C			243.9 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43964	10/06/23 20:06	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43951	10/05/23 21:29	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43952	10/05/23 21:29	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:13	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:28	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: DMW-1

Lab Sample ID: 590-21922-7

Date Collected: 10/04/23 11:00

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 04:45	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 04:45	JSP	EET SPK
Total/NA	Prep	3510C			248.2 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 10:05	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43951	10/05/23 21:40	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43952	10/05/23 21:40	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:16	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:30	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: DUP-2

Lab Sample ID: 590-21922-8

Date Collected: 10/04/23 13:00

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 05:07	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 05:07	JSP	EET SPK
Total/NA	Prep	3510C			245.1 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 10:27	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43951	10/05/23 22:12	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43952	10/05/23 22:12	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441011	10/16/23 16:24	JLS	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 15:18	FCW	EET SEA

Eurofins Spokane

Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: DUP-2

Lab Sample ID: 590-21922-8

Date Collected: 10/04/23 13:00

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:33	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: RW-8

Lab Sample ID: 590-21922-9

Date Collected: 10/04/23 12:55

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 05:29	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 05:29	JSP	EET SPK
Total/NA	Prep	3510C			240 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 10:48	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43951	10/05/23 22:23	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43952	10/05/23 22:23	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:23	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:36	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: B-19

Lab Sample ID: 590-21922-10

Date Collected: 10/04/23 12:56

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 05:51	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 05:51	JSP	EET SPK
Total/NA	Prep	3510C			245.5 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 11:10	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43951	10/05/23 22:34	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43952	10/05/23 22:34	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:26	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:38	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: B-17B

Lab Sample ID: 590-21922-11

Date Collected: 10/04/23 13:15

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 06:12	JSP	EET SPK

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Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: B-17B

Lab Sample ID: 590-21922-11

Date Collected: 10/04/23 13:15

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 06:12	JSP	EET SPK
Total/NA	Prep	3510C			246.6 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 11:32	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43955	10/06/23 10:04	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43956	10/06/23 10:04	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:29	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 16:57	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: E-22

Lab Sample ID: 590-21922-12

Date Collected: 10/04/23 13:45

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 06:34	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 06:34	JSP	EET SPK
Total/NA	Prep	3510C			218.3 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 11:54	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43955	10/06/23 10:14	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43956	10/06/23 10:14	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:08	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 17:00	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: RW-5R

Lab Sample ID: 590-21922-13

Date Collected: 10/04/23 14:50

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 06:56	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 06:56	JSP	EET SPK
Total/NA	Prep	3510C			235.6 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 12:15	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43955	10/06/23 10:23	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43956	10/06/23 10:23	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:10	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 17:03	FCW	EET SEA

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Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RW-5R

Lab Sample ID: 590-21922-13

Date Collected: 10/04/23 14:50

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: RW-2

Lab Sample ID: 590-21922-14

Date Collected: 10/04/23 14:08

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 07:17	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 07:17	JSP	EET SPK
Total/NA	Prep	3510C			245.1 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 12:37	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43955	10/06/23 10:33	NMI	EET SPK
Total/NA	Analysis	300.0		4	5 mL	5 mL	43956	10/06/23 10:33	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:13	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 17:05	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: RR-3

Lab Sample ID: 590-21922-15

Date Collected: 10/04/23 15:40

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 08:01	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 08:01	JSP	EET SPK
Total/NA	Prep	3510C			261.5 mL	2 mL	43945	10/06/23 10:17	MRV	EET SPK
Total/NA	Analysis	8270E SIM		1	1 uL	1 uL	43966	10/06/23 20:06	NMI	EET SPK
Total/NA	Prep	3510C			250.6 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 12:59	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43955	10/06/23 10:43	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43973	10/06/23 23:14	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:16	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 17:08	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440610	10/11/23 22:17	MLT	EET SEA

Client Sample ID: RR-2

Lab Sample ID: 590-21922-16

Date Collected: 10/04/23 15:35

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 08:23	JSP	EET SPK

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Lab Chronicle

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: RR-2

Lab Sample ID: 590-21922-16

Date Collected: 10/04/23 15:35

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 08:23	JSP	EET SPK
Total/NA	Prep	3510C			215.7 mL	2 mL	43945	10/06/23 10:17	MRV	EET SPK
Total/NA	Analysis	8270E SIM		1	1 uL	1 uL	43966	10/06/23 20:28	NMI	EET SPK
Total/NA	Prep	3510C			220.9 mL	2 mL	43962	10/06/23 12:29	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	43970	10/09/23 13:21	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43955	10/06/23 10:53	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	43973	10/06/23 23:25	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441142	10/17/23 16:49	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441309	10/18/23 12:18	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441010	10/16/23 16:21	JLS	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441172	10/17/23 17:11	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440880	10/14/23 22:09	MLT	EET SEA

Client Sample ID: TB-2

Lab Sample ID: 590-21922-17

Date Collected: 10/04/23 00:00

Matrix: Water

Date Received: 10/05/23 12:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 08:44	JSP	EET SPK

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Definitions/Glossary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Definitions/Glossary

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21922-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: AECOM

Job ID: 590-21922-1

Project/Site: Tacoma D St Terminal/60674388

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24

Laboratory: Eurofins Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-24
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-24
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Environment Testing

Client Information		Sampler: <u>ER</u>		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-9004-2235.3																	
Client Contact: Renee Knecht		Phone:		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin:		Page: Page 3 of 5																	
Company: AECOM		PWSID:		Analysis Requested						Job #:															
Address: 1111 Third Ave Suite 1600		Due Date Requested:		<table border="1"><tr><td rowspan="5">Field Filtered Sample (Yes or No)</td><td rowspan="5">NWTPH_Dx DRO and RRO</td><td rowspan="5">8260D NWTPH_Gx_MS</td><td rowspan="5">300_ORGEM_28D, 300_ORGEMS</td><td rowspan="5">6020B Total Lead</td><td rowspan="5">6020B Diss Pb & Mn</td><td rowspan="5">310.1 Alkalinity only</td><td rowspan="5">8270E_SIM Naphthalenes</td><td rowspan="5">8260C BTEX only</td><td rowspan="5">Total Number of Containers</td></tr><tr></tr><tr></tr><tr></tr><tr></tr></table>						Field Filtered Sample (Yes or No)	NWTPH_Dx DRO and RRO	8260D NWTPH_Gx_MS	300_ORGEM_28D, 300_ORGEMS	6020B Total Lead	6020B Diss Pb & Mn	310.1 Alkalinity only	8270E_SIM Naphthalenes	8260C BTEX only	Total Number of Containers	Preservation Codes:					
Field Filtered Sample (Yes or No)	NWTPH_Dx DRO and RRO	8260D NWTPH_Gx_MS	300_ORGEM_28D, 300_ORGEMS																	6020B Total Lead	6020B Diss Pb & Mn	310.1 Alkalinity only	8270E_SIM Naphthalenes	8260C BTEX only	Total Number of Containers
City: Seattle		TAT Requested (days):		A HCL M Hexane		B NaOH N None		C Zn Acetate O AsNaO2																	
State, Zip: WA, 98101		Compliance Project: ☐ Yes ☐ No		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3																	
Phone: 206-403-4259(Tel)		PO #: 60674388		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone																	
Email: renee.knecht@aecom.com		WO #: 60674388		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Y Trizma																	
Project Name: Tacoma D St Terminal-Phillips 66/6053745		Project #: 59000882		Z other (specify)		Other:																			
Site:		SSOW#:																							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, G=waste/solid, BT=Tissue, A=Air)		Special Instructions/Note:															
						Preservation Code		X X A A N D D N N A																	
DMW-3		10/4/23		0938		G		Water																	
FW-SR				0940		G		Water																	
FW-4				0945		G		Water																	
FW 3				1120		G		Water																	
DUP 1				1200		G		Water																	
B-31				1125		G		Water																	
DMW-1				1100		G		Water																	
DUP-2				1300		G		Water																	
RW-8				1255		G		Water																	
B-19				1256		G		Water																	
B-17B				1315		G		Water																	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 30 days)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																			
Deliverable Requested: I, II, III, IV Other (specify)				Special Instructions/QC Requirements:																					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																			
Relinquished by: <u>[Signature]</u>		Date/Time: 10/4/23 1700		Company: AECOM		Received by: <u>[Signature]</u>		Date/Time: 10/5/23 12'19		Company: EET SPO															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:															
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.				Cooler Temperature(s) °C and Other Remarks: 43.8/1000 & 48.5/1000 12006																			

Eurofins Spokane

11922 East 1st Ave

Spokane, WA 99206

Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



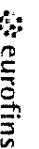
Environment Testing

Client Information		Sampler:		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-9004-2235.5																															
Client Contact: Renee Knecht		Phone:		E-Mail: Randee.Arrington@et.eurofinsus.com		State of Origin:		Page: Page 5 of 5																															
Company: AECOM		PWSID:		Analysis Requested																																			
Address: 1111 Third Ave Suite 1600		Due Date Requested:		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Preserve in Sealed Container (Yes or No)</td> <td rowspan="5">NWTPH_Dx DRO and RRO</td> <td rowspan="5">8260D, NWTPH_Gx_MS</td> <td rowspan="5">300_ORGFM_28D, 300_ORGFMS</td> <td rowspan="5">6020B Total Lead</td> <td rowspan="5">6020B Diss Pb & Mn</td> <td rowspan="5">310.1 Alkalinity only</td> <td rowspan="5">8270E_SIM Naphthalenes</td> <td rowspan="5">8260C BTEX only</td> <td rowspan="5">Total Number of Containers</td> </tr> </table>						Field Filtered Sample (Yes or No)	Preserve in Sealed Container (Yes or No)	NWTPH_Dx DRO and RRO	8260D, NWTPH_Gx_MS	300_ORGFM_28D, 300_ORGFMS	6020B Total Lead	6020B Diss Pb & Mn	310.1 Alkalinity only	8270E_SIM Naphthalenes	8260C BTEX only	Total Number of Containers																			
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																												City: Seattle		TAT Requested (days):									
																												State, Zip: WA, 98101		Compliance Project: ☐ Yes ☐ No									
																												Phone: 206-403-4259(Tel)		PO #: 60674388									
				Email: renee.knecht@aecom.com		WO #: 60674388																																	
Project Name: Tacoma D St Terminal-Phillips 66/6053745		Project #: 59000882		<table border="1"> <tr> <td colspan="2">Preservation Codes:</td> </tr> <tr> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td>C Zn Acetate</td> <td>O AsH2O2</td> </tr> <tr> <td>D Nitric Acid</td> <td>P Na2O4S</td> </tr> <tr> <td>E NaHSO4</td> <td>Q Na2SO3</td> </tr> <tr> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td>I Ice</td> <td>U Acetone</td> </tr> <tr> <td>J DI Water</td> <td>V MCAA</td> </tr> <tr> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td>L EDA</td> <td>Y Trizma</td> </tr> <tr> <td colspan="2">Z other (specify)</td> </tr> <tr> <td colspan="2">Other:</td> </tr> </table>						Preservation Codes:		A HCL	M Hexane	B NaOH	N None	C Zn Acetate	O AsH2O2	D Nitric Acid	P Na2O4S	E NaHSO4	Q Na2SO3	F MeOH	R Na2S2O3	G Amchlor	S H2SO4	H Ascorbic Acid	T TSP Dodecahydrate	I Ice	U Acetone	J DI Water	V MCAA	K EDTA	W pH 4-5	L EDA	Y Trizma	Z other (specify)		Other:	
Preservation Codes:																																							
A HCL	M Hexane																																						
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F MeOH	R Na2S2O3																																						
G Amchlor	S H2SO4																																						
H Ascorbic Acid	T TSP Dodecahydrate																																						
I Ice	U Acetone																																						
J DI Water	V MCAA																																						
K EDTA	W pH 4-5																																						
L EDA	Y Trizma																																						
Z other (specify)																																							
Other:																																							
Site:		SSOW#:																																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Total Number of Containers																													
						Preservation Code:				Special Instructions/Note:																													
E-22		10/4/23		1345		G		Water		6																													
RW-SR				1450						6																													
RW-2				1408						6																													
RR-3				1540						8																													
RR-2				1535						8																													
TB-2		10/4/23		---						1																													
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																													
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																													
Deliverable Requested: I, II, III, IV Other (specify)										Special Instructions/QC Requirements:																													
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																															
Relinquished by:				Date/Time:		Company:		Received by:																															
Relinquished by:				Date/Time:		Company:		Received by:																															
Relinquished by:				Date/Time:		Company:		Received by:																															
Custody Seals Intact:				Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:																																	
☐ Yes ☐ No						43.46 car + 4.8, 5.1 car 14006																																	

Eurofins Spokane

11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):		COC No:						
Client Contact:		Phone:	Airtington, Randee E			590-8307.1						
Shipping/Receiving:			E-Mail:	State of Origin:		Page						
Company:			Randee.Airtington@eurofins.com		Washington	Page 1 of 2						
Eurofins Environment Testing Northwest,			Accreditations Required (See note)			Job #						
Address:		Due Date Requested:	State Program - Washington			590-21922-1						
5755 8th Street East,		10/18/2023										
City:		TAT Requested (days):	Analysis Requested									
Tacoma												
State, Zip:												
WA, 98424												
Phone:		PO #:										
253-922-2310(Tel)		WO #:										
Email:												
Project Name:		Project #:										
Tacoma D St Terminal/80674388		59000882										
Site:		SSOV#:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Inorganic, Organic, Special, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	310.1/ Alkalinity only	6020B/3005A Total Lead	6020B/FIELD_FLTRD (MOD) Diss Pb & Mn	Total Number of containers	Special Instructions/Note:
DMW-3 (590-21922-1)		10/4/23	09:30 Pacific		Water		X	X	X		3	
FW-5R (590-21922-2)		10/4/23	09:40 Pacific		Water		X	X	X		3	
FW-4 (590-21922-3)		10/4/23	09:45 Pacific		Water		X	X	X		3	
FW-3 (590-21922-4)		10/4/23	11:20 Pacific		Water		X	X	X		3	
DUP-1 (590-21922-5)		10/4/23	12:00 Pacific		Water		X	X	X		3	
B-31 (590-21922-6)		10/4/23	11:25 Pacific		Water		X	X	X		3	
DMW-1 (590-21922-7)		10/4/23	11:00 Pacific		Water		X	X	X		3	
DUP-2 (590-21922-8)		10/4/23	13:00 Pacific		Water		X	X	X		3	
RW-8 (590-21922-9)		10/4/23	12:55 Pacific		Water		X	X	X		3	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2												
Empty Kit Relinquished by: Date: Time: Method of Shipment:												
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Cooler Temperature(s) °C and Other Remarks: 1911 3413.6												
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Cooler Temperature(s) °C and Other Remarks: 1911 3413.6												
Custody Seats Intact: Custody Seal No.: Ver: 06/08/2021												

Eurofins Spokane

11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:							
Client Contact:		Phone:	Arrington, Randee E		590-8307 2							
Shipping/Receiving:			E-Mail: Randee.Arrington@eurofins.com	State of Origin: Washington	Page: Page 2 of 2							
Company: Eurofins Environment Testing Northwest		Accreditations Required (See note): State Program - Washington		Job #:	590-21922-1							
Address: 5755 8th Street East,		Due Date Requested: 10/18/2023	Analysis Requested									
City: Tacoma	TAT Requested (days):											
State, Zip: WA, 98424												
Phone: 253-922-2310(Tel)	PO #:											
Email:	WFO #:											
Project Name: Tacoma D St Terminal/60674388	Project #:											
Site:	SSOV#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weight, Serial, Concentration)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	310.1/ Alkalinity only	6020B/3005A Total Lead	6020B/FIELD_FLTRD (MOD) Diss Pb & Mn	Total Number of Containers	Special Instructions/Note:
B-19 (590-21922-10)		10/4/23	12:56 Pacific		Water		X	X	X		3	
B-17B (590-21922-11)		10/4/23	13:15 Pacific		Water		X	X	X		3	
E-22 (590-21922-12)		10/4/23	13:45 Pacific		Water		X	X	X		3	
RW-5R (590-21922-13)		10/4/23	14:50 Pacific		Water		X	X	X		3	
RW-2 (590-21922-14)		10/4/23	14:08 Pacific		Water		X	X	X		3	
RR-3 (590-21922-15)		10/4/23	15:40 Pacific		Water		X	X	X		3	
RR-2 (590-21922-16)		10/4/23	15:35 Pacific		Water		X	X	X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [Signature]	10/5/23	15:51	Company: [Signature]
Relinquished by:	Date/Time:	Company:	Received by: [Signature]
Relinquished by:	Date/Time:	Company:	Received by: [Signature]
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 20N 3413C	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-21922-1

Login Number: 21922

List Source: Eurofins Spokane

List Number: 1

Creator: Morris, Mackenzie 1

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Improper containers received.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-21922-1

Login Number: 21922

List Number: 2

Creator: Groves, Elizabeth

List Source: Eurofins Seattle

List Creation: 10/06/23 10:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 15.6c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Renee Knecht
AECOM
1111 Third Ave
Suite 1600
Seattle, Washington 98101

Generated 10/23/2023 2:20:02 PM

JOB DESCRIPTION

Tacoma D St Terminal/60674388

JOB NUMBER

590-21955-1

Eurofins Spokane

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
10/23/2023 2:20:02 PM

Authorized for release by
Nicole Irons, QA Manager
Nicole.Irons@et.eurofinsus.com
Designee for
Randee Arrington, Business Unit Manager
Randee.Arrington@et.eurofinsus.com
(509)924-9200

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Case Narrative

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Job ID: 590-21955-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative 590-21955-1

Receipt

The samples were received on 10/9/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

Receipt Exceptions

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: B-25 (590-21955-1), T-2 (590-21955-2) and HC-111 (590-21955-3).

GC/MS VOA

Method 8260D: Surrogate recovery for the following sample was outside control limits: HC-111 (590-21955-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: The method blank for analytical batch 590-43980 contained Gasoline above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method NWTPH-Gx: The method blank for analytical batch 590-43986 contained Gasoline above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 300.0: The following samples were received outside of holding time: B-25 (590-21955-1), T-2 (590-21955-2) and HC-111 (590-21955-3).

Method NWTPH-Dx: Detected hydrocarbons appear to be due to gasoline overlap.

B-25 (590-21955-1) and T-2 (590-21955-2)

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel.

HC-111 (590-21955-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020B: The method blank for <440808> contained <Mn> above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Case Narrative

Client: AECOM

Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Job ID: 590-21955-1 (Continued)

Laboratory: Eurofins Spokane (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-21955-1	B-25	Water	10/05/23 10:36	10/09/23 10:00
590-21955-2	T-2	Water	10/05/23 11:57	10/09/23 10:00
590-21955-3	HC-111	Water	10/05/23 10:30	10/09/23 10:00

Method Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SPK
300.0	Anions, Ion Chromatography	EPA	EET SPK
6020B	Metals (ICP/MS)	SW846	EET SEA
310.1	Alkalinity	EPA	EET SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SPK
5030C	Purge and Trap	SW846	EET SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: B-25

Lab Sample ID: 590-21955-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.4		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	0.33	J	1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.99	J	2.0	0.28	ug/L	1		8260D	Total/NA
Toluene	0.85	J	1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	0.99	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	3200	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.93		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.30	J	0.50	0.13	mg/L	1		300.0	Total/NA
Lead	0.00031	J	0.0020	0.00020	mg/L	5		6020B	Dissolved
Manganese	0.12	B	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	100		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: T-2

Lab Sample ID: 590-21955-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	68	J B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.16	J	0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	2400		50	13	mg/L	100		300.0	Total/NA
Lead	0.00027	J	0.0020	0.00020	mg/L	5		6020B	Dissolved
Manganese	0.034	B	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	35		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: HC-111

Lab Sample ID: 590-21955-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	7.7		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	2.1		2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.75	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	4.2		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	2.9	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	2300	B	150	31	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	3.5		0.28	0.13	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.40	J	0.47	0.14	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.68		0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.48		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	290		7.0	7.0	mg/L	1		310.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Client Sample ID: B-25

Lab Sample ID: 590-21955-1

Date Collected: 10/05/23 10:36

Matrix: Water

Date Received: 10/09/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.4		0.40	0.093	ug/L			10/10/23 10:56	1
Ethylbenzene	0.33	J	1.0	0.20	ug/L			10/10/23 10:56	1
m,p-Xylene	0.99	J	2.0	0.28	ug/L			10/10/23 10:56	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 10:56	1
Toluene	0.85	J	1.0	0.31	ug/L			10/10/23 10:56	1
Xylenes, Total	0.99	J	3.0	0.44	ug/L			10/10/23 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		80 - 120		10/10/23 10:56	1
4-Bromofluorobenzene (Surr)	107		76 - 120		10/10/23 10:56	1
Dibromofluoromethane (Surr)	82		80 - 123		10/10/23 10:56	1
Toluene-d8 (Surr)	108		80 - 120		10/10/23 10:56	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3200	B	150	31	ug/L			10/10/23 10:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		68.7 - 141					10/10/23 10:56	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.93		0.25	0.11	mg/L		10/13/23 09:49	10/13/23 17:55	1
Residual Range Organics (RRO) (C25-C36)	ND		0.41	0.12	mg/L		10/13/23 09:49	10/13/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				10/13/23 09:49	10/13/23 17:55	1
n-Triacontane-d62	72		50 - 150				10/13/23 09:49	10/13/23 17:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H H3	0.20	0.057	mg/L			10/10/23 17:19	1
Sulfate	0.30	J	0.50	0.13	mg/L			10/10/23 17:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/18/23 16:07	10/19/23 14:23	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00031	J	0.0020	0.00020	mg/L		10/13/23 15:45	10/16/23 17:20	5
Manganese	0.12	B	0.010	0.0023	mg/L		10/13/23 15:45	10/16/23 17:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	100		7.0	7.0	mg/L			10/14/23 22:09	1

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Client Sample ID: T-2

Lab Sample ID: 590-21955-2

Date Collected: 10/05/23 11:57

Matrix: Water

Date Received: 10/09/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 11:19	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 11:19	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 11:19	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 11:19	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 11:19	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		10/10/23 11:19	1
4-Bromofluorobenzene (Surr)	118		76 - 120		10/10/23 11:19	1
Dibromofluoromethane (Surr)	94		80 - 123		10/10/23 11:19	1
Toluene-d8 (Surr)	103		80 - 120		10/10/23 11:19	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	68	J B	150	31	ug/L			10/10/23 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		68.7 - 141		10/10/23 11:19	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.16	J	0.24	0.11	mg/L		10/13/23 09:49	10/13/23 18:17	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		10/13/23 09:49	10/13/23 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	10/13/23 09:49	10/13/23 18:17	1
n-Triacontane-d62	68		50 - 150	10/13/23 09:49	10/13/23 18:17	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H H3	2.0	0.57	mg/L			10/10/23 16:49	10
Sulfate	2400		50	13	mg/L			10/12/23 15:38	100

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/18/23 16:07	10/19/23 14:28	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00027	J	0.0020	0.00020	mg/L		10/13/23 15:45	10/16/23 17:22	5
Manganese	0.034	B	0.010	0.0023	mg/L		10/13/23 15:45	10/16/23 17:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	35		7.0	7.0	mg/L			10/14/23 22:09	1

Eurofins Spokane

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Client Sample ID: HC-111

Lab Sample ID: 590-21955-3

Date Collected: 10/05/23 10:30

Matrix: Water

Date Received: 10/09/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13		0.40	0.093	ug/L			10/10/23 12:04	1
Ethylbenzene	7.7		1.0	0.20	ug/L			10/10/23 12:04	1
m,p-Xylene	2.1		2.0	0.28	ug/L			10/10/23 12:04	1
o-Xylene	0.75	J	1.0	0.16	ug/L			10/10/23 12:04	1
Toluene	4.2		1.0	0.31	ug/L			10/10/23 12:04	1
Xylenes, Total	2.9	J	3.0	0.44	ug/L			10/10/23 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		80 - 120		10/10/23 12:04	1
4-Bromofluorobenzene (Surr)	125	S1+	76 - 120		10/10/23 12:04	1
Dibromofluoromethane (Surr)	91		80 - 123		10/10/23 12:04	1
Toluene-d8 (Surr)	99		80 - 120		10/10/23 12:04	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2300	B	150	31	ug/L			10/10/23 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		68.7 - 141		10/10/23 12:04	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	3.5		0.28	0.13	mg/L		10/13/23 09:49	10/13/23 18:38	1
Residual Range Organics (RRO) (C25-C36)	0.40	J	0.47	0.14	mg/L		10/13/23 09:49	10/13/23 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	10/13/23 09:49	10/13/23 18:38	1
n-Triacontane-d62	79		50 - 150	10/13/23 09:49	10/13/23 18:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H H3	0.20	0.057	mg/L			10/10/23 17:29	1
Sulfate	0.68		0.50	0.13	mg/L			10/10/23 17:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/18/23 16:07	10/19/23 14:25	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/19/23 16:03	10/20/23 11:55	5
Manganese	0.48		0.010	0.0023	mg/L		10/19/23 16:03	10/20/23 11:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (EPA 310.1)	290		7.0	7.0	mg/L			10/14/23 22:09	1

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QC Sample Results

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-43984/6

Matrix: Water

Analysis Batch: 43984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			10/10/23 04:02	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/10/23 04:02	1
m,p-Xylene	ND		2.0	0.28	ug/L			10/10/23 04:02	1
o-Xylene	ND		1.0	0.16	ug/L			10/10/23 04:02	1
Toluene	ND		1.0	0.31	ug/L			10/10/23 04:02	1
Xylenes, Total	ND		3.0	0.44	ug/L			10/10/23 04:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		10/10/23 04:02	1
4-Bromofluorobenzene (Surr)	108		76 - 120		10/10/23 04:02	1
Dibromofluoromethane (Surr)	94		80 - 123		10/10/23 04:02	1
Toluene-d8 (Surr)	103		80 - 120		10/10/23 04:02	1

Lab Sample ID: LCS 590-43984/1003

Matrix: Water

Analysis Batch: 43984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.07		ug/L		91	80 - 120
Ethylbenzene	10.0	9.87		ug/L		99	80 - 122
m,p-Xylene	10.0	10.1		ug/L		101	80 - 125
o-Xylene	10.0	10.4		ug/L		104	80 - 130
Toluene	10.0	9.80		ug/L		98	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		80 - 120
4-Bromofluorobenzene (Surr)	104		76 - 120
Dibromofluoromethane (Surr)	86		80 - 123
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 590-43984/4

Matrix: Water

Analysis Batch: 43984

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.02		ug/L		90	80 - 120	1	15
Ethylbenzene	10.0	10.0		ug/L		100	80 - 122	2	35
m,p-Xylene	10.0	10.2		ug/L		102	80 - 125	1	35
o-Xylene	10.0	10.5		ug/L		105	80 - 130	1	35
Toluene	10.0	9.88		ug/L		99	80 - 129	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		80 - 120
4-Bromofluorobenzene (Surr)	105		76 - 120
Dibromofluoromethane (Surr)	86		80 - 123
Toluene-d8 (Surr)	101		80 - 120

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QC Sample Results

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-43986/6

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	44.1	J	150	31	ug/L			10/10/23 04:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141					10/10/23 04:02	1

Lab Sample ID: LCS 590-43986/1005

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	1000	994		ug/L		99	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	105		68.7 - 141				

Lab Sample ID: LCSD 590-43986/1016

Matrix: Water

Analysis Batch: 43986

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	954		ug/L		95	80 - 120	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		68.7 - 141						

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-44072/1-A

Matrix: Water

Analysis Batch: 44086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.24	0.11	mg/L		10/13/23 09:49	10/13/23 15:25	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		10/13/23 09:49	10/13/23 15:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				10/13/23 09:49	10/13/23 15:25	1
n-Triacontane-d62	68		50 - 150				10/13/23 09:49	10/13/23 15:25	1

Lab Sample ID: LCS 590-44072/2-A

Matrix: Water

Analysis Batch: 44086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.39		mg/L		87	50 - 150

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QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 590-44072/2-A

Matrix: Water

Analysis Batch: 44086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44072

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Residual Range Organics (RRO) (C25-C36)			1.60	1.64		mg/L		102	50 - 150		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
<i>o</i> -Terphenyl		78		50 - 150							
<i>n</i> -Triacontane-d62		73		50 - 150							

Lab Sample ID: LCSD 590-44072/3-A

Matrix: Water

Analysis Batch: 44086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44072

Analysis Data: 4/6/22							Top Data: 4/6/22				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)			1.60	1.25		mg/L		78	50 - 150	11	25
Residual Range Organics (RRO) (C25-C36)			1.60	1.57		mg/L		98	50 - 150	4	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
<i>o</i> -Terphenyl	77		50 - 150								
<i>n</i> -Triacontane-d62	71		50 - 150								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-44021/1003

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			10/10/23 15:01	1

Lab Sample ID: LCS 590-44021/1004

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.90		mg/L		98	90 - 110

Lab Sample ID: MB 590-44022/1003

Matrix: Water

Analysis Batch: 44022

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/10/23 15:01	1

Lab Sample ID: LCS 590-44022/1004

Matrix: Water

Analysis Batch: 44022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.1		mg/L		97	90 - 110

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QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-44069/1003
Matrix: Water
Analysis Batch: 44069

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			10/12/23 12:32	1

Lab Sample ID: LCS 590-44069/1004
Matrix: Water
Analysis Batch: 44069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12.5	12.4		mg/L		99	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-440808/24-A
Matrix: Water
Analysis Batch: 441051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 440808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00040	0.000040	mg/L		10/13/23 15:45	10/16/23 16:34	1
Manganese	0.00303		0.0020	0.00046	mg/L		10/13/23 15:45	10/16/23 16:34	1

Lab Sample ID: LCS 580-440808/25-A
Matrix: Water
Analysis Batch: 441051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 440808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	1.08		mg/L		108	80 - 120
Manganese	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LCSD 580-440808/26-A
Matrix: Water
Analysis Batch: 441051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 440808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	1.09		mg/L		109	80 - 120	1	20
Manganese	1.00	1.10		mg/L		110	80 - 120	2	20

Lab Sample ID: MB 580-441273/23-A
Matrix: Water
Analysis Batch: 441434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 441273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/18/23 16:07	10/19/23 14:20	5

Lab Sample ID: LCS 580-441273/24-A
Matrix: Water
Analysis Batch: 441434

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 441273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	0.994		mg/L		99	80 - 120

Eurofins Spokane

QC Sample Results

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-441273/25-A

Matrix: Water

Analysis Batch: 441434

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 441273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.995		mg/L		99	80 - 120	0	20

Lab Sample ID: 590-21955-2 MS

Matrix: Water

Analysis Batch: 441434

Client Sample ID: T-2

Prep Type: Total Recoverable

Prep Batch: 441273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	1.02		mg/L		102	80 - 120		

Lab Sample ID: 590-21955-2 MSD

Matrix: Water

Analysis Batch: 441434

Client Sample ID: T-2

Prep Type: Total Recoverable

Prep Batch: 441273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	1.03		mg/L		103	80 - 120	1	20

Lab Sample ID: 590-21955-2 DU

Matrix: Water

Analysis Batch: 441434

Client Sample ID: T-2

Prep Type: Total Recoverable

Prep Batch: 441273

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		ND		mg/L				NC	20

Lab Sample ID: MB 580-441410/26-A

Matrix: Water

Analysis Batch: 441605

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 441410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		10/19/23 16:05	10/20/23 11:52	5
Manganese	ND		0.010	0.0023	mg/L		10/19/23 16:05	10/20/23 11:52	5

Lab Sample ID: LCS 580-441410/27-A

Matrix: Water

Analysis Batch: 441605

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 441410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.984		mg/L		98	80 - 120		
Manganese	1.00	0.970		mg/L		97	80 - 120		

Lab Sample ID: LCSD 580-441410/28-A

Matrix: Water

Analysis Batch: 441605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 441410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1.00	0.994		mg/L		99	80 - 120	1	20
Manganese	1.00	0.971		mg/L		97	80 - 120	0	20

Eurofins Spokane

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 590-21955-3 MS

Matrix: Water

Analysis Batch: 441605

Client Sample ID: HC-111

Prep Type: Dissolved

Prep Batch: 441410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1.00	0.977		mg/L		98	80 - 120
Manganese	0.48		1.00	1.39		mg/L		91	80 - 120

Lab Sample ID: 590-21955-3 MSD

Matrix: Water

Analysis Batch: 441605

Client Sample ID: HC-111

Prep Type: Dissolved

Prep Batch: 441410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	1.02		mg/L		102	80 - 120	4	20
Manganese	0.48		1.00	1.49		mg/L		101	80 - 120	7	20

Lab Sample ID: 590-21955-3 DU

Matrix: Water

Analysis Batch: 441605

Client Sample ID: HC-111

Prep Type: Dissolved

Prep Batch: 441410

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		ND		mg/L				NC	20
Manganese	0.48		0.460		mg/L				4	20

Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-440880/2

Matrix: Water

Analysis Batch: 440880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	101		mg/L		101	85 - 115

Lab Sample ID: LCSD 580-440880/3

Matrix: Water

Analysis Batch: 440880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	100	96.3		mg/L		96	85 - 115	4	20

QC Association Summary

Client: AECOM

Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

GC/MS VOA

Analysis Batch: 43984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	8260D	
590-21955-2	T-2	Total/NA	Water	8260D	
590-21955-3	HC-111	Total/NA	Water	8260D	
MB 590-43984/6	Method Blank	Total/NA	Water	8260D	
LCS 590-43984/1003	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-43984/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 43986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	NWTPH-Gx	
590-21955-2	T-2	Total/NA	Water	NWTPH-Gx	
590-21955-3	HC-111	Total/NA	Water	NWTPH-Gx	
MB 590-43986/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-43986/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-43986/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 44072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	3510C	
590-21955-2	T-2	Total/NA	Water	3510C	
590-21955-3	HC-111	Total/NA	Water	3510C	
MB 590-44072/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-44072/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-44072/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 44086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	NWTPH-Dx	44072
590-21955-2	T-2	Total/NA	Water	NWTPH-Dx	44072
590-21955-3	HC-111	Total/NA	Water	NWTPH-Dx	44072
MB 590-44072/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	44072
LCS 590-44072/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	44072
LCSD 590-44072/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	44072

HPLC/IC

Analysis Batch: 44021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	300.0	
590-21955-2	T-2	Total/NA	Water	300.0	
590-21955-3	HC-111	Total/NA	Water	300.0	
MB 590-44021/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-44021/1004	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 44022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	300.0	
590-21955-3	HC-111	Total/NA	Water	300.0	
MB 590-44022/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-44022/1004	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

HPLC/IC

Analysis Batch: 44069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-2	T-2	Total/NA	Water	300.0	
MB 590-44069/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-44069/1004	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 440808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Dissolved	Water	3005A	
590-21955-2	T-2	Dissolved	Water	3005A	
MB 580-440808/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-440808/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-440808/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 441051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Dissolved	Water	6020B	440808
590-21955-2	T-2	Dissolved	Water	6020B	440808
MB 580-440808/24-A	Method Blank	Total Recoverable	Water	6020B	440808
LCS 580-440808/25-A	Lab Control Sample	Total Recoverable	Water	6020B	440808
LCSD 580-440808/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	440808

Prep Batch: 441273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total Recoverable	Water	3005A	
590-21955-2	T-2	Total Recoverable	Water	3005A	
590-21955-3	HC-111	Total Recoverable	Water	3005A	
MB 580-441273/23-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-441273/24-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-441273/25-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-21955-2 MS	T-2	Total Recoverable	Water	3005A	
590-21955-2 MSD	T-2	Total Recoverable	Water	3005A	
590-21955-2 DU	T-2	Total Recoverable	Water	3005A	

Prep Batch: 441410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-3	HC-111	Dissolved	Water	3005A	
MB 580-441410/26-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-441410/27-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-441410/28-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-21955-3 MS	HC-111	Dissolved	Water	3005A	
590-21955-3 MSD	HC-111	Dissolved	Water	3005A	
590-21955-3 DU	HC-111	Dissolved	Water	3005A	

Analysis Batch: 441434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total Recoverable	Water	6020B	441273
590-21955-2	T-2	Total Recoverable	Water	6020B	441273
590-21955-3	HC-111	Total Recoverable	Water	6020B	441273
MB 580-441273/23-A	Method Blank	Total Recoverable	Water	6020B	441273
LCS 580-441273/24-A	Lab Control Sample	Total Recoverable	Water	6020B	441273

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QC Association Summary

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Metals (Continued)

Analysis Batch: 441434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 580-441273/25-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	441273
590-21955-2 MS	T-2	Total Recoverable	Water	6020B	441273
590-21955-2 MSD	T-2	Total Recoverable	Water	6020B	441273
590-21955-2 DU	T-2	Total Recoverable	Water	6020B	441273

Analysis Batch: 441605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-3	HC-111	Dissolved	Water	6020B	441410
MB 580-441410/26-A	Method Blank	Total Recoverable	Water	6020B	441410
LCS 580-441410/27-A	Lab Control Sample	Total Recoverable	Water	6020B	441410
LCSD 580-441410/28-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	441410
590-21955-3 MS	HC-111	Dissolved	Water	6020B	441410
590-21955-3 MSD	HC-111	Dissolved	Water	6020B	441410
590-21955-3 DU	HC-111	Dissolved	Water	6020B	441410

General Chemistry

Analysis Batch: 440880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-21955-1	B-25	Total/NA	Water	310.1	
590-21955-2	T-2	Total/NA	Water	310.1	
590-21955-3	HC-111	Total/NA	Water	310.1	
LCS 580-440880/2	Lab Control Sample	Total/NA	Water	310.1	
LCSD 580-440880/3	Lab Control Sample Dup	Total/NA	Water	310.1	

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/60674388

Job ID: 590-21955-1

Client Sample ID: B-25

Date Collected: 10/05/23 10:36

Date Received: 10/09/23 10:00

Lab Sample ID: 590-21955-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 10:56	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 10:56	JSP	EET SPK
Total/NA	Prep	3510C			244.6 mL	2 mL	44072	10/13/23 09:49	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	44086	10/13/23 17:55	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44021	10/10/23 17:19	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44022	10/10/23 17:19	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	440808	10/13/23 15:45	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441051	10/16/23 17:20	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441273	10/18/23 16:07	MJ	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441434	10/19/23 14:23	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440880	10/14/23 22:09	MLT	EET SEA

Client Sample ID: T-2

Date Collected: 10/05/23 11:57

Date Received: 10/09/23 10:00

Lab Sample ID: 590-21955-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 11:19	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 11:19	JSP	EET SPK
Total/NA	Prep	3510C			248.8 mL	2 mL	44072	10/13/23 09:49	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	44086	10/13/23 18:17	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	44021	10/10/23 16:49	NMI	EET SPK
Total/NA	Analysis	300.0		100	5 mL	5 mL	44069	10/12/23 15:38	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	440808	10/13/23 15:45	AUA	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441051	10/16/23 17:22	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	441273	10/18/23 16:07	MJ	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441434	10/19/23 14:28	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440880	10/14/23 22:09	MLT	EET SEA

Client Sample ID: HC-111

Date Collected: 10/05/23 10:30

Date Received: 10/09/23 10:00

Lab Sample ID: 590-21955-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43984	10/10/23 12:04	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43986	10/10/23 12:04	JSP	EET SPK
Total/NA	Prep	3510C			211.5 mL	2 mL	44072	10/13/23 09:49	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	44086	10/13/23 18:38	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44021	10/10/23 17:29	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44022	10/10/23 17:29	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	441410	10/19/23 16:03	JL	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	441605	10/20/23 11:55	FCW	EET SEA

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Lab Chronicle

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Client Sample ID: HC-111

Lab Sample ID: 590-21955-3

Date Collected: 10/05/23 10:30

Matrix: Water

Date Received: 10/09/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	441273	10/18/23 16:07	MJ	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	441434	10/19/23 14:25	FCW	EET SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	440880	10/14/23 22:09	MLT	EET SEA

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Definitions/Glossary

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Spokane

Accreditation/Certification Summary

Client: AECOM

Job ID: 590-21955-1

Project/Site: Tacoma D St Terminal/60674388

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24

Laboratory: Eurofins Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-24
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-24
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Spokane

eurofins | Environment Testing

Ver: 06/08/2021/10/23/2023

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-21955-1

Login Number: 21955

List Source: Eurofins Spokane

List Number: 1

Creator: Morris, Mackenzie 1

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-21955-1

Login Number: 21955

List Number: 2

Creator: Prigge, Madison

List Source: Eurofins Seattle

List Creation: 10/11/23 12:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR11 1.8/2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C
Data Validation Review, Fourth Quarter 2023

Memorandum

To	Renee Knecht, Project Manager	Info	FINAL
Subject	Summary Data Quality Review Phillips 66 – D Street Terminal, Tacoma Washington 2023 Second Semi-Annual Groundwater Sampling		
From	Chelsey Cook, Chemist Jennifer B. Garner, Chemist		
Date	December 4, 2023		

The summary data quality review of 31 groundwater samples and two trip blanks collected between October 3 and October 9, 2023, has been completed. The samples were analyzed at the Eurofins Spokane laboratory located in Spokane, Washington, for selected VOCs (benzene, toluene, ethylbenzene, m,p-xylene, o-xylene, and total xylenes [BTEX]) by EPA Method 8260D, total petroleum hydrocarbons (TPHs) by Washington State Department of Ecology (Ecology) Methods NWTPH-Gx (gasoline-range TPH) and NWTPH-Dx (diesel-range and residual-range TPH), and/or naphthalenes (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) by EPA Method 8270E modified by selected ion monitoring (SIM). Eurofins Spokane subcontracted analyses for metals (total and/or dissolved lead and manganese) by EPA Method 6020B, anions (nitrate and sulfate) by EPA Method 300.0, and alkalinity by EPA Method 310.1 to the Eurofins laboratory located in Seattle, Washington. The laboratory provided summary reports containing sample results and associated quality assurance (QA) and quality control (QC) data for all samples. The following samples are associated with Eurofins laboratory groups 590-21892-1, 590-21922-1, and 590-21955-1:

Sample ID	Laboratory Group	Laboratory ID	Requested Analyses
DMW-2	590-21892-1	590-21892-1	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
FW-14		590-21892-2	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity, Naphthalenes
FW-15		590-21892-3	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
FW-13		590-21892-4	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
G-18		590-21892-5	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
B-34		590-21892-6	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
RR-1		590-21892-7	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
RR-4		590-21892-8	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
G-8		590-21892-9	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
E-21		590-21892-10	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
RR-5		590-21892-11	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
T-3		590-21892-12	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
TB-1-231003 (trip blank)		590-21892-13	BTEX
DMW-3	590-21922-1	590-21922-1	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
FW-5R		590-21922-2	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity, Naphthalenes
FW-4		590-21922-3	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity, Naphthalenes
FW-3		590-21922-4	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
DUP-1 (Field duplicate of FW-3)		590-21922-5	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
B-31		590-21922-6	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
DMW-1		590-21922-7	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
DUP-2 (Field duplicate of DMW-1)		590-21922-8	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity



Summary Data Quality Review

Phillips 66 - D Street Terminal, Tacoma, Washington

2023 Second Semi-Annual Groundwater Sampling

Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1

Sample ID	Laboratory Group	Laboratory ID	Requested Analyses
RW-8	590-21922-1 (continued)	590-21922-9	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
B-19		590-21922-10	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
B-17B		590-21922-11	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
E-22		590-21922-12	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
RW-5R		590-21922-13	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
RW-2		590-21922-14	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
RR-3		590-21922-15	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity, Naphthalenes
RR-2		590-21922-16	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity, Naphthalenes
TB-2 (trip blank)		590-21922-17	BTEX
B-25	590-21955-1	590-21955-1	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
T-2		590-21955-2	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity
HC-111		590-21955-3	BTEX, TPH-Gx, TPH-Dx, anions, metals, alkalinity

Data were evaluated based on validation criteria established in the *National Functional Guidelines for Organic Superfund Methods Data Review* and *National Functional Guidelines for Inorganic Superfund Methods Data Review*, dated November 2020, as applied to the reported methodology.

The following data components were reviewed during the limited data validation procedure for compliance with method specific or laboratory control charted criteria where appropriate: chain of custody forms, holding times, field/method/trip/instrument blanks, surrogate recoveries, matrix spike/matrix spike duplicate recoveries, laboratory and field duplicate results, laboratory control sample/laboratory control sample duplicate recoveries, reporting limits, and electronic data deliverables.

A summary of qualifiers that were assigned to results in these laboratory groups are included in Table 1. Qualifiers that may be assigned to results include:

- U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- DNR - Do Not Report. Another result is available that is more reliable or appropriate.

Sample Receipt

Upon receipt by the laboratory, the sample jar information was compared to the associated chain-of-custody (COC) and the cooler temperatures were recorded. No discrepancies related to sample

Summary Data Quality Review**Phillips 66 - D Street Terminal, Tacoma, Washington****2023 Second Semi-Annual Groundwater Sampling****Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1**

identification were noted by the laboratory and the coolers were received at temperatures within the EPA recommended temperature limits of greater than 0°C and less than or equal to 6°C. The laboratory noted that the container label for RR-5 did not match the information listed on the COC. The container labels listed RR-5, while the COC lists RR-4. The sample was logged correctly using the process of elimination and according to the container labels.

Organic Analyses

Samples were analyzed for BTEX, TPHs, and/or naphthalenes by the methods identified in the introduction of this report.

1. Holding Times – Acceptable
2. Blanks – Acceptable except as noted below:

NWTPH-Gx – Gasoline-range TPH was detected in the following method blanks at concentrations between the method detection limits (MDLs) and the laboratory reporting limits.

Analytical Batch	Detection	Samples Flagged 'U' at the Reporting Limit	Samples Flagged 'J' at the Result
590-43980	34.8 ug/L	DMW-2, FW-14, FW-13	None
590-43986	44.1 ug/L	DUP-2, RW-8, B-17B, E-22, RR-3, RR-2, T-2	None
590-44054	37.6 ug/L	RR-1, RR-4, G-8, E-21, RR-5, T-3, DMW-3, FW-5R, FW-4, FW-3, DUP-1	B-34

Samples were qualified as indicated in the table above. Sample results associated with the method blanks above that were reported at concentrations between the MDLs and the laboratory reporting limits were qualified as not detected and flagged 'U' at the reporting limits. Results reported at concentrations above the laboratory reporting limit, but less than two times the reporting limit were qualified as estimated and flagged 'J' at the reported result.

NWTPH-Dx – Residual-range TPH (0.150 mg/L) was detected in the method blank associated with preparation batch 590-43962 at a concentration between the MDL and the reporting limit. Residual-range TPH was detected in FW-3, DUP-1, DUP-2, RW-8, B-19, E-22, and RW-2 at concentrations between the MDLs and the reporting limits; therefore, the results for residual-range TPH in these samples were qualified as non-detected and flagged 'U' at the reporting limits. Residual-range TPHs were detected in DMW-3, FW-5R, FW-4, and B-31 at concentrations between one and two times the reporting limits; therefore, the results for residual-range TPH were qualified as estimated and flagged 'J' in these samples.

3. Surrogates – Acceptable except as noted below:

BTEX by Method 8260D – The surrogate 4-bromofluorobenzene recovered above the control limits of 76-120% in sample HC-111 (125%). The results for VOCs in HC-111 were qualified as estimated and flagged 'J' based on the elevated surrogate recovery.

Summary Data Quality Review

Phillips 66 - D Street Terminal, Tacoma, Washington

2023 Second Semi-Annual Groundwater Sampling

Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1

NWTPH-Gx – The surrogate 4-bromofluorobenzene recovered above the control limits of 68.7-141% in FW-3 (146%) and DUP-1 (155%). The results for gasoline-range TPH in these samples were qualified as not detected based on the associated method blank result as discussed in Section 2; therefore, no qualification based on elevated surrogate recoveries was necessary.

Naphthalenes by Method 8270E-SIM – The surrogate nitrobenzene-d5 was not recovered in the 20x dilution of FW-5R. Data were not qualified in the 20x dilution of FW-5R based on the low surrogate recovery.

4. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) – Acceptable

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable

BTEX by Method 8260D – An MS/MSD was prepared using sample DMW-2. Results were acceptable.

NWTPH-Gx – An MS/MSD was prepared using sample DMW-2. Results were acceptable.

NWTPH-Dx – An MS/MSD was prepared using sample DMW-2. Results were acceptable.

Naphthalenes by Method 8270E-SIM – An MS/MSD was not performed in association with this analysis. Precision and accuracy were assessed using the LCS/LCSD results.

6. Field Duplicate (applicable to BTEX and TPH analyses only) – Acceptable where applicable

General – Field duplicates were submitted for FW-3 and DMW-1 and identified as DUP-1 and DUP-2, respectively. Results were comparable.

7. Reporting Limits – Acceptable

General – One or more results in multiple samples were flagged 'J' by the laboratory to indicate a concentration that was less than the reporting limit, but above the MDL. Laboratory 'J'-flagged results are considered estimated. As the result is between the MDL and the reporting limit, there is a greater level of uncertainty associated with the numerical value.

8. Other Items of Note:

NWTPH-Dx – The laboratory noted the following:

- Detected hydrocarbons appear to be due to a heavily weathered diesel and/or light weight oil in DMW-3.
- Detected hydrocarbons in the diesel range appear to be due to light weight oil and/or possible biogenic interference in FW-4.
- Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in RW-5R, RW-2, RR-3, RR-2, B-25, and T-2.

Summary Data Quality Review

Phillips 66 - D Street Terminal, Tacoma, Washington

2023 Second Semi-Annual Groundwater Sampling

Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1

- Detected hydrocarbons in the diesel range appear to be due to weathered and/or heavily weathered diesel in DMW-2, E-21, RR-5, T-3, FW-5R, B-31, DMW-1, DUP-2, RW-8, G-18, B-34, and HC-111.
- Detected hydrocarbons in the diesel range appear to be due to gasoline overlap as well as heavily weathered diesel in FW-15, FW-13, G-8, B-19, and E-22.

Metals

Samples were analyzed for total and/or dissolved metals by the methods identified in the introduction to this report.

1. Holding Times – Acceptable
2. Blanks – Acceptable except as noted below:

Dissolved Lead and Manganese by Method 6020B – Manganese (0.00303 mg/L) was detected in the method blank associated with preparatory batch 580-440808 at a concentration greater than the reporting limit. The results for manganese were either reported as not detected in the associated samples or were detected at concentrations greater than ten times the blank concentration; therefore, data were not qualified based on this method blank result.

3. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) – Acceptable
4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable

Total Lead by Method 6020B – MS/MSDs for total lead were performed using DMW-2 and T-2. Results were acceptable.

Dissolved Lead and Manganese by Method 6020B – MS/MSDs for dissolved lead and manganese were performed using DMW-2 and HC-111. Results were acceptable.

5. Laboratory Duplicate – Acceptable

Total Lead by Method 6020B – Laboratory duplicates for total lead were performed using DMW-2 and T-2. Results were comparable.

Dissolved Lead and Manganese by Method 6020B – Laboratory duplicates for dissolved lead and manganese were performed using DMW-2 and HC-111. Results were comparable.

6. Field Duplicate – Acceptable

General – Field duplicates were submitted for FW-3 and DMW-1 and identified as DUP-1 and DUP-2, respectively. Results were comparable.

Summary Data Quality Review

Phillips 66 - D Street Terminal, Tacoma, Washington

2023 Second Semi-Annual Groundwater Sampling

Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1

7. Reporting Limits – Acceptable

General – One or more results in multiple samples were flagged 'J' by the laboratory to indicate a concentration that was less than the reporting limit, but above the MDL. As noted above, laboratory 'J'-flagged results are considered estimated results.

The reporting limits for total lead, dissolved lead, and/or dissolved manganese reported as not detected were elevated in multiple samples due to the dilutions required for matrix interferences. The elevated reporting limits do not impact the use of the data.

General Chemistry Parameters

Samples were analyzed for anions and alkalinity by the methods identified in the introduction to this report.

1. Holding Times – Acceptable except as noted below:

Anions by Method 300.0 – Samples B-25, T-2, and HC-111 were analyzed for nitrate outside of the analytical holding time. The results for nitrate in these samples were qualified as estimated and flagged 'UJ' based on holding time exceedance.

2. Blanks – Acceptable where applicable

3. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) – Acceptable

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable except as noted below (applicable to anions only):

Anions by Method 300.0 – MS/MSDs were performed using DMW-2. The percent recoveries for nitrate were below the control limits of 80-120% in the MS (36%) and MSD (37%). The result for nitrate was qualified as estimated and flagged 'J' in DMW-2 based on the MS/MSD results.

5. Laboratory Duplicates – Acceptable

Anions by Method 300.0 – Laboratory duplicates were performed using DMW-2. Results were comparable.

Alkalinity by Method 310.1 – Laboratory duplicates were performed using DMW-2 and DMW-3. Results were comparable.

6. Field Duplicate – Acceptable except as noted below:

General – Field duplicates were submitted for FW-3 and DMW-1 and identified as DUP-1 and DUP-2, respectively. Results were comparable with the following exception.

Anions by Method 300.0 – The relative percent difference (RPD) for nitrate (173%) for the FW-3/DUP-1 field duplicate pair exceeded 30%. The results for nitrate were qualified as estimated and flagged 'J' in FW-3 and DUP-1 based on the elevated field duplicate RPD.

Summary Data Quality Review

Phillips 66 - D Street Terminal, Tacoma, Washington

2023 Second Semi-Annual Groundwater Sampling

Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1

7. Reporting Limits – Acceptable

Anions by Method 300.0 – One or more nitrate results in multiple samples were flagged 'J' by the laboratory. As noted above, laboratory 'J'-flagged results are considered estimated results.

8. Other Items of Note:

Anions by Method 300.0 – The laboratory noted that the percent difference (%D) for sulfate was above the control limits of $\pm 20\%$ in the continuing calibration verification (CCV) associated with analytical batch 590-43907. Sulfate was not detected in the associated samples; therefore, data were not qualified based on the elevated CCV %D.

Overall Assessment of Data

The data reported in these laboratory groups, as qualified, are usable for meeting project objectives. The completeness for Eurofins laboratory groups 590-21892-1, 590-21922-1, and 590-21955-1 is 100%.

Table 1 – Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Units	Final Result	Reason
DMW-2	590-21892-1	Nitrate as N	0.57	mg/L	0.57 J	MS/MSD
DMW-2	590-21892-1	Gasoline	330 J	ug/L	330 J	Method Blank
E-21	590-21892-10	Gasoline	600 J	ug/L	600 J	Method Blank
RR-5	590-21892-11	Gasoline	50 J	ug/L	150 U	Method Blank
T-3	590-21892-12	Gasoline	110 J	ug/L	150 U	Method Blank
FW-14	590-21892-2	Gasoline	36 J	ug/L	150 U	Method Blank
FW-13	590-21892-4	Gasoline	67 J	ug/L	150 U	Method Blank
B-34	590-21892-6	Gasoline	2,300	ug/L	2,300 J	Method Blank
RR-1	590-21892-7	Gasoline	450 J	ug/L	1,500 U	Method Blank
RR-4	590-21892-8	Gasoline	470 J	ug/L	1,500 U	Method Blank
G-8	590-21892-9	Gasoline	82 J	ug/L	150 U	Method Blank
DMW-3	590-21922-1	RRO (C25-C36)	0.68	mg/L	0.68 J	Method Blank
DMW-3	590-21922-1	Gasoline	56 J	ug/L	150 U	Method Blank
B-19	590-21922-10	RRO (C25-C36)	0.20 J	mg/L	0.41 U	Method Blank
B-17B	590-21922-11	Gasoline	49 J	ug/L	150 U	Method Blank
E-22	590-21922-12	RRO (C25-C36)	0.14 J	mg/L	0.46 U	Method Blank
E-22	590-21922-12	Gasoline	83 J	ug/L	150 U	Method Blank
RW-2	590-21922-14	RRO (C25-C36)	0.15 J	mg/L	0.41 U	Method Blank
RR-3	590-21922-15	Gasoline	48 J	ug/L	150 U	Method Blank
RR-2	590-21922-16	Gasoline	53 J	ug/L	150 U	Method Blank
FW-5R	590-21922-2	RRO (C25-C36)	0.82	mg/L	0.82 J	Method Blank
FW-5R	590-21922-2	Gasoline	80 J	ug/L	150 U	Method Blank
FW-4	590-21922-3	RRO (C25-C36)	0.44	mg/L	0.44 J	Method Blank
FW-4	590-21922-3	Gasoline	78 J	ug/L	150 U	Method Blank
FW-3	590-21922-4	Nitrate as N	18	mg/L	18 J	Field Duplicate
FW-3	590-21922-4	RRO (C25-C36)	0.29 J	mg/L	0.46 U	Method Blank
FW-3	590-21922-4	Gasoline	63 J	ug/L	150 U	Method Blank



Summary Data Quality Review

Phillips 66 - D Street Terminal, Tacoma, Washington

2023 Second Semi-Annual Groundwater Sampling

Laboratory Groups: 590-21892-1, 590-21922-1, and 590-21955-1

Sample ID	Laboratory ID	Analyte	Laboratory Result	Units	Final Result	Reason
DUP-1	590-21922-5	Nitrate as N	1.3 J	mg/L	1.3 J	Field Duplicate
DUP-1	590-21922-5	RRO (C25-C36)	0.30 J	mg/L	0.46 U	Method Blank
DUP-1	590-21922-5	Gasoline	56 J	ug/L	150 U	Method Blank
B-31	590-21922-6	RRO (C25-C36)	0.79	mg/L	0.79 J	Method Blank
DMW-1	590-21922-7	Gasoline	420	ug/L	420 J	Field Duplicate
DUP-2	590-21922-8	RRO (C25-C36)	0.22 J	mg/L	0.41 U	Method Blank
DUP-2	590-21922-8	Gasoline	75 J	ug/L	150 UJ	Method Blank/Field Duplicate
RW-8	590-21922-9	RRO (C25-C36)	0.35 J	mg/L	0.42 U	Method Blank
RW-8	590-21922-9	Gasoline	130 J	ug/L	150 U	Method Blank
B-25	590-21955-1	Nitrate as N	0.20 U	mg/L	0.20 UJ	Holding Time
T-2	590-21955-2	Nitrate as N	2.0 U	mg/L	2.0 UJ	Holding Time
T-2	590-21955-2	Gasoline	68 J	ug/L	150 U	Method Blank
HC-111	590-21955-3	Nitrate as N	0.20 U	mg/L	0.20 UJ	Holding Time
HC-111	590-21955-3	Benzene	13	ug/L	13 J	Surrogate
HC-111	590-21955-3	Ethylbenzene	7.7	ug/L	7.7 J	Surrogate
HC-111	590-21955-3	m,p-Xylene	2.1	ug/L	2.1 J	Surrogate
HC-111	590-21955-3	o-Xylene	0.75 J	ug/L	0.75 J	Surrogate
HC-111	590-21955-3	Toluene	4.2	ug/L	4.2 J	Surrogate
HC-111	590-21955-3	Xylenes, Total	2.9 J	ug/L	2.9 J	Surrogate

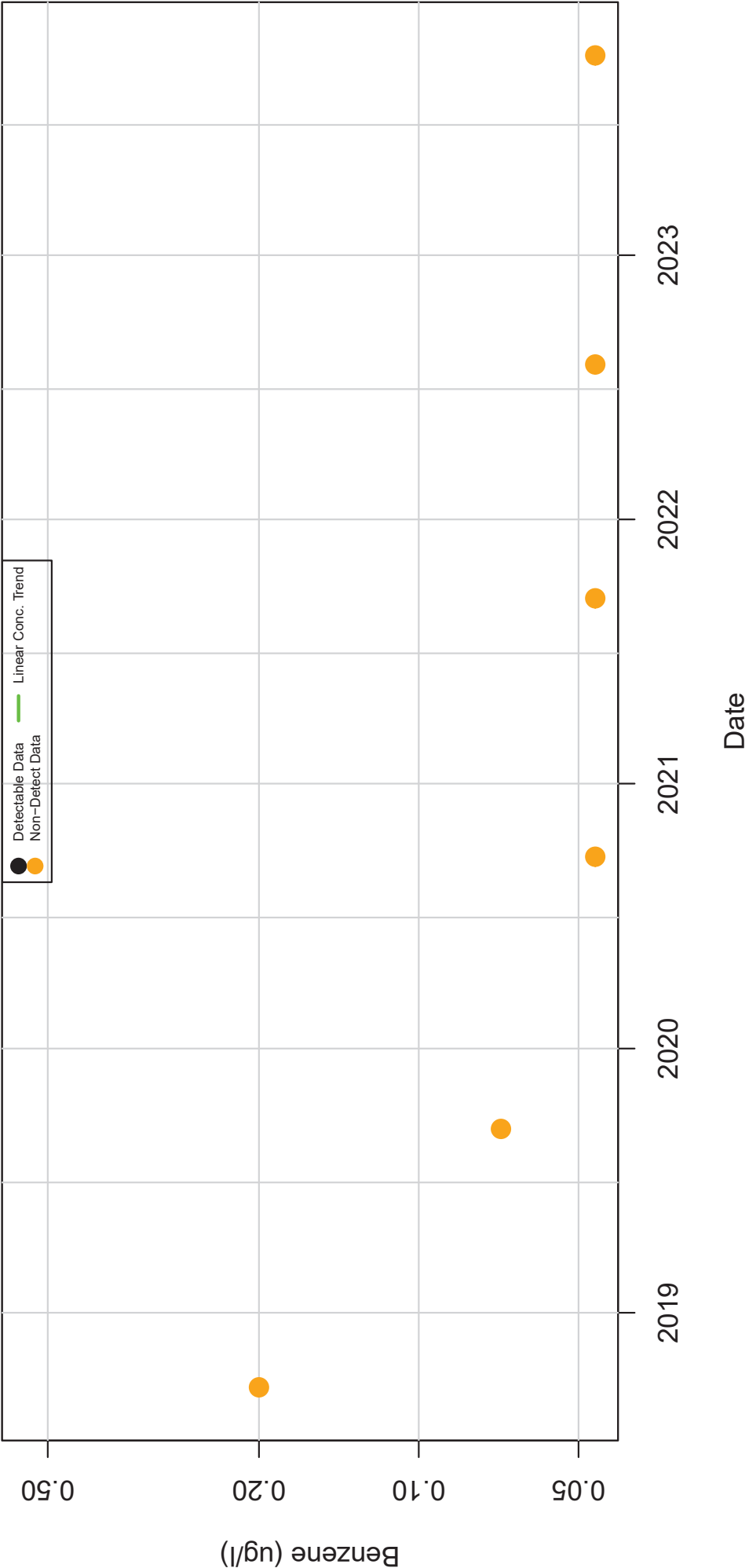
Appendix D

GWSDAT Plots: Time vs. Concentration with Mann-Kendall

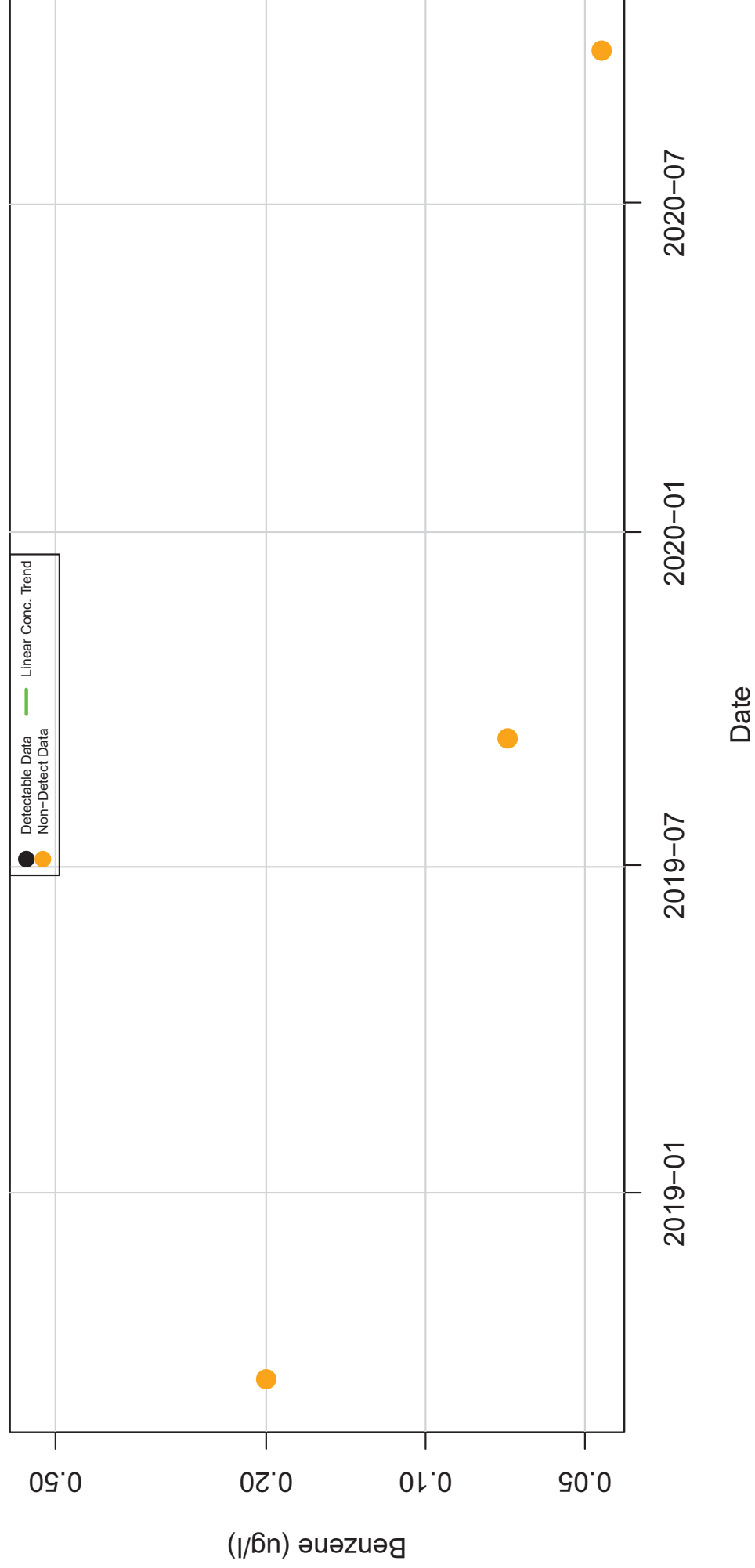
GWSDAT Summary/Legend

- Black Solid Data Points = Detections
- Orange Solid Data Points = Non-Detects
- Solid Green Line = Linear trend estimate (Mann-Kendall Analysis)
- Dashed Green Line = 95% confidence interval around linear trend estimate

Benzene in B-17B : Aquifer-Blank

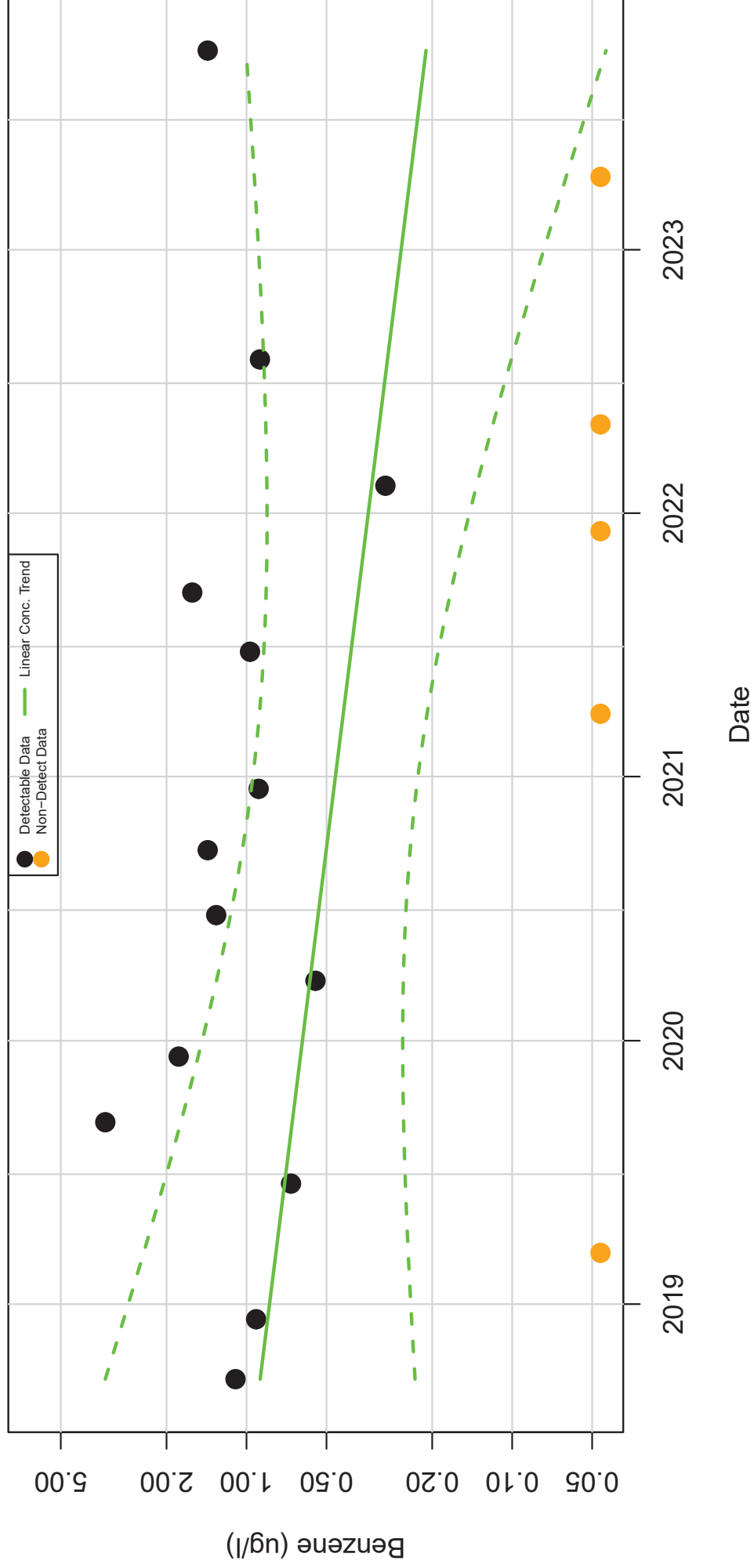


Benzene in B-30 : Aquifer-Blank



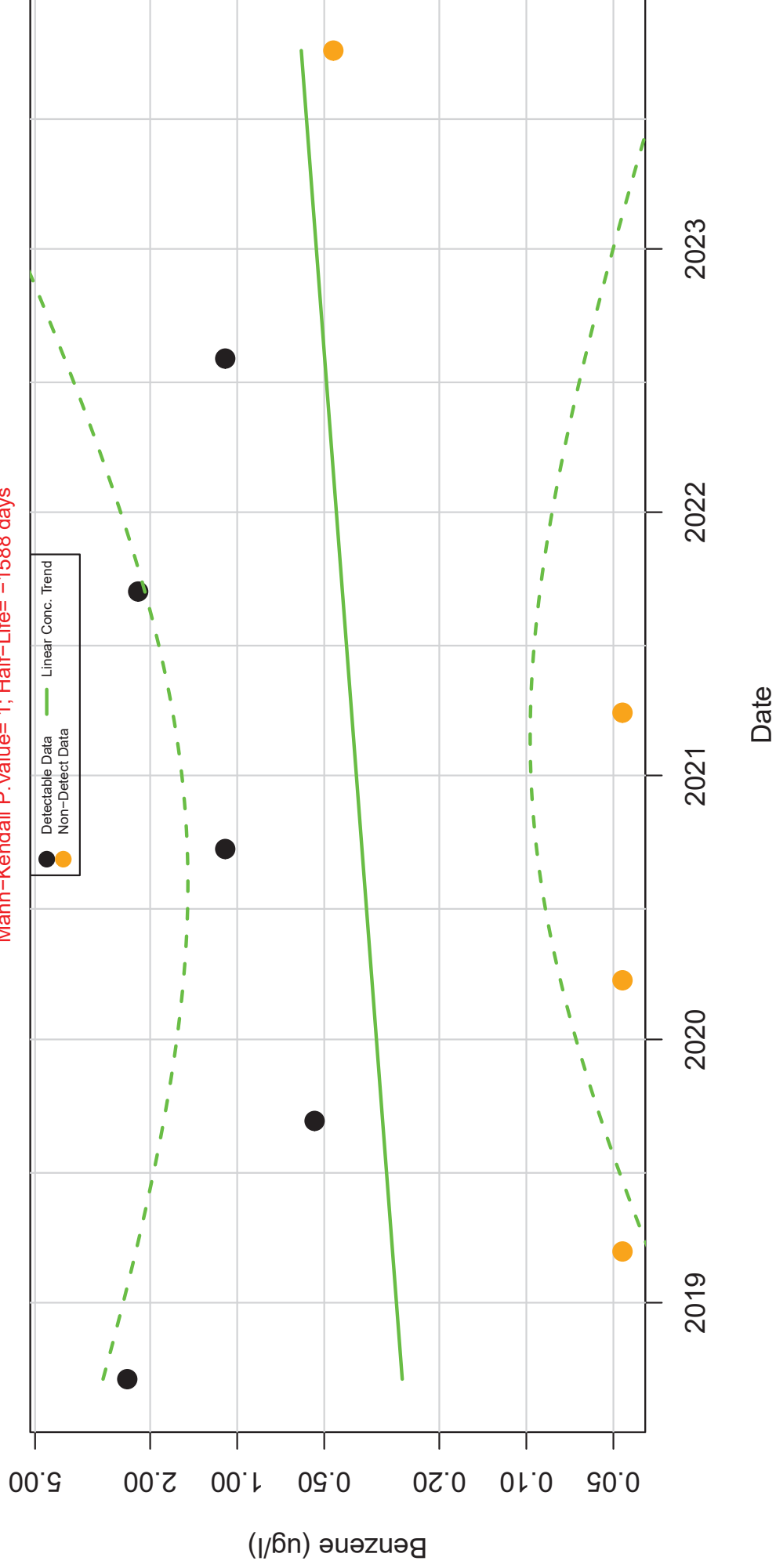
Benzene in B-31 : Aquifer-Blank

Mann-Kendall P-Value= 0.273; Half-Life= 888 days



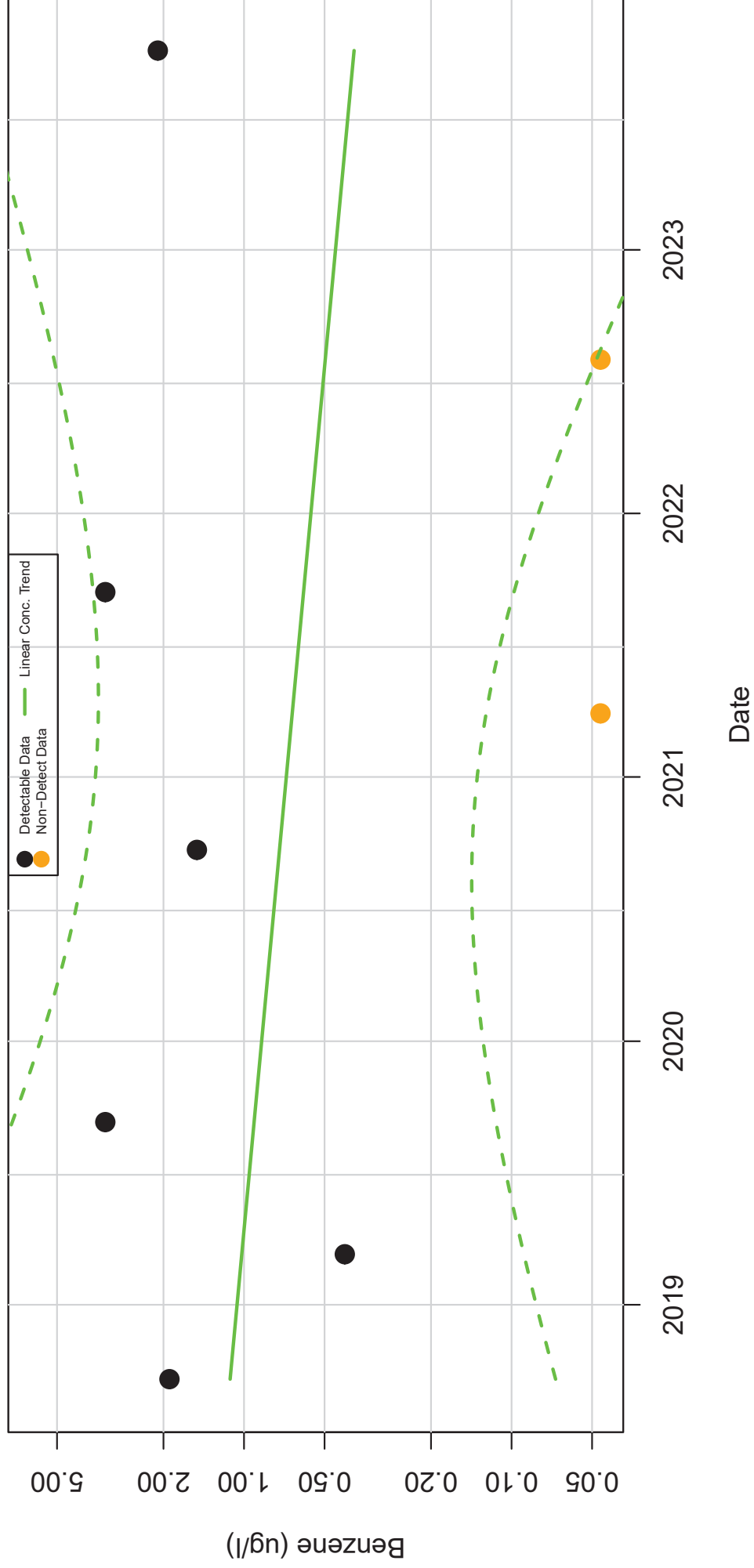
Benzene in E-21 : Aquifer-Blank

Mann-Kendall P.Value= 1; Half-Life= -1588 days



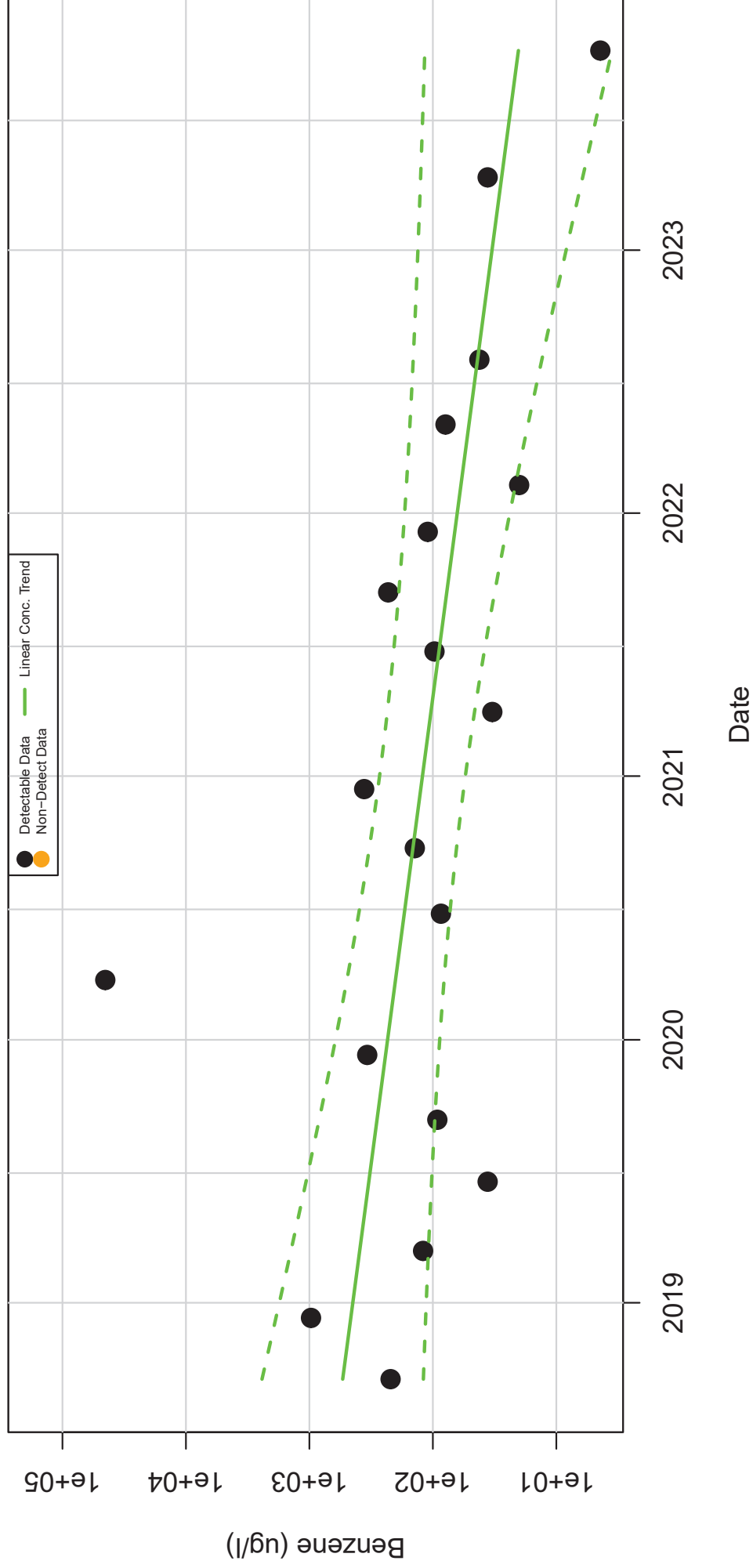
Benzene in B-19 : Aquifer-Blank

Mann-Kendall P.Value= 0.9; Half-Life= 1195 days



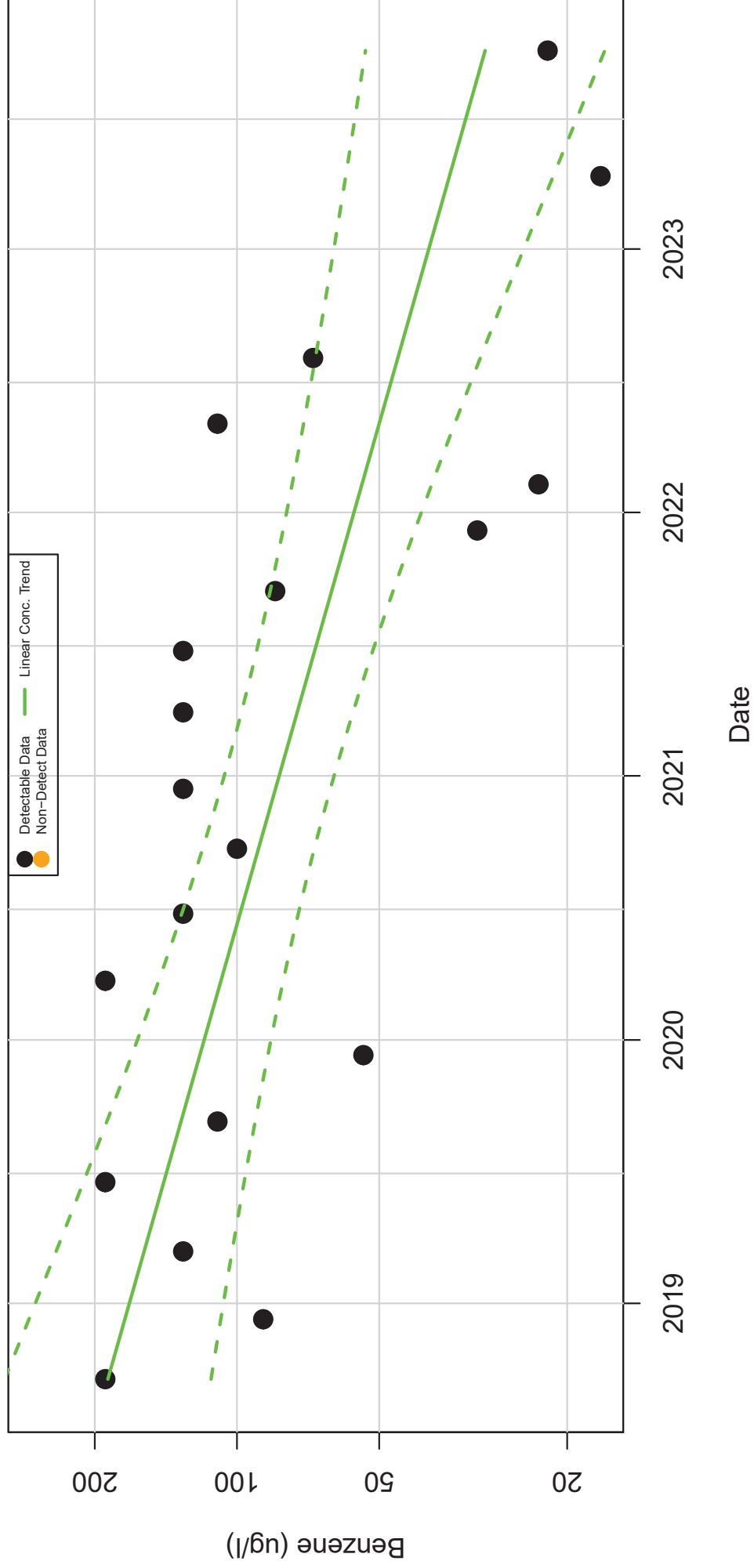
Benzene in B-25 : Aquifer-Blank

Mann-Kendall P.Value= 0.0129; Half-Life= 390 days



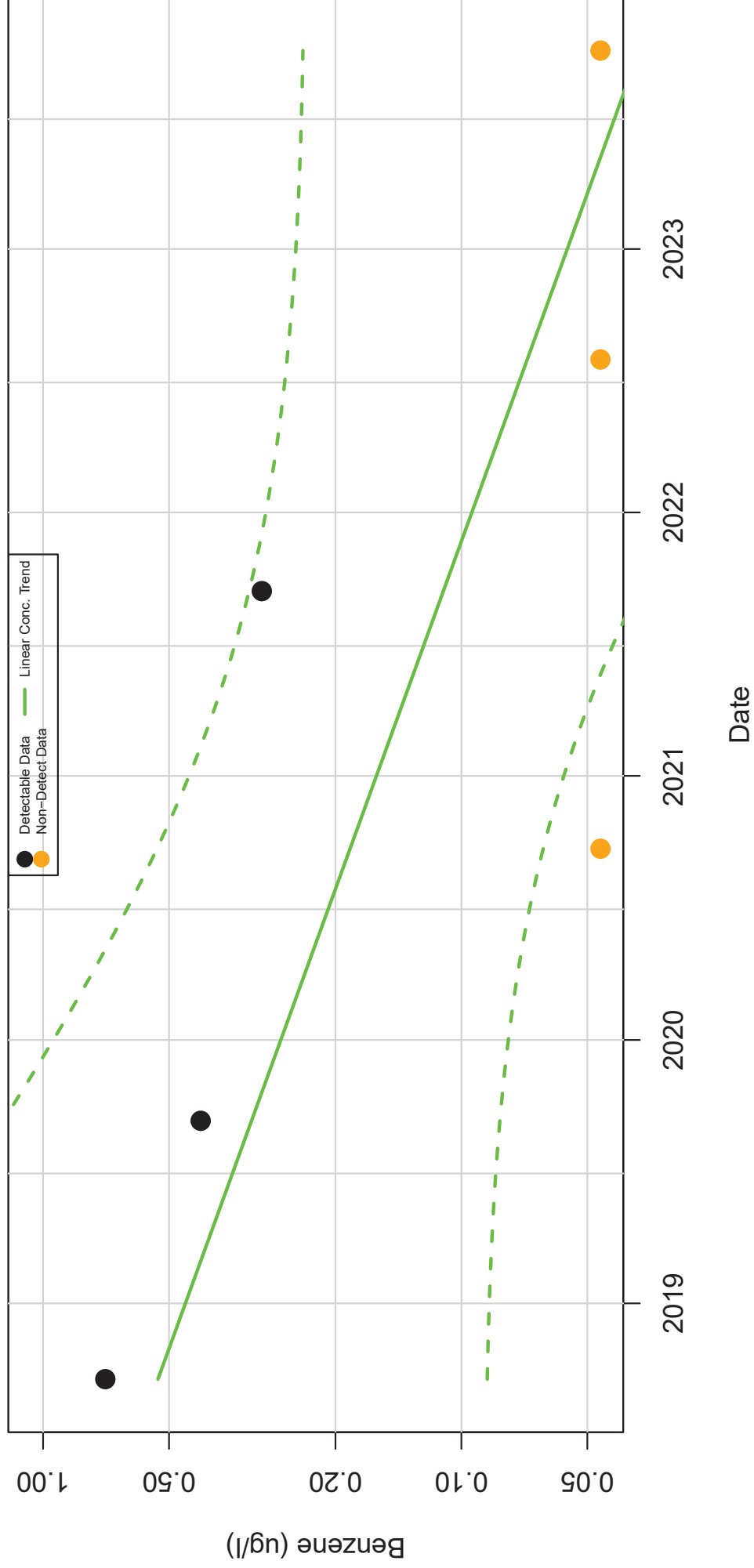
Benzene in B-34 : Aquifer-Blank

Mann-Kendall P.Value= <0.01; Half-Life= 694 days



Benzene in G-8 : Aquifer-Blank

Mann-Kendall P.Value= 0.07; Half-Life= 482 days

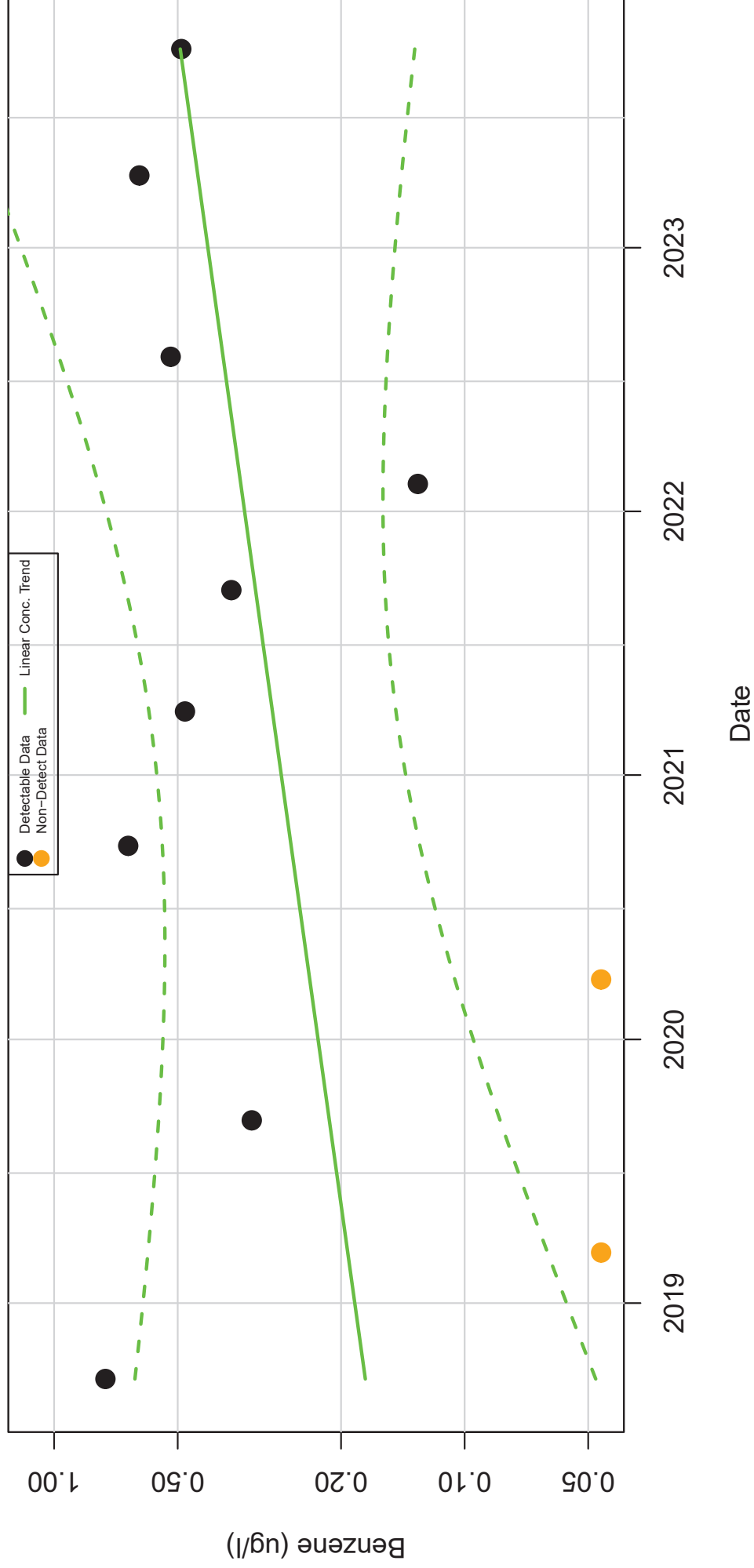


Benzene in G-16 : Aquifer-Blank
Mann-Kendall P.Value= 1; Half-Life= 284 days



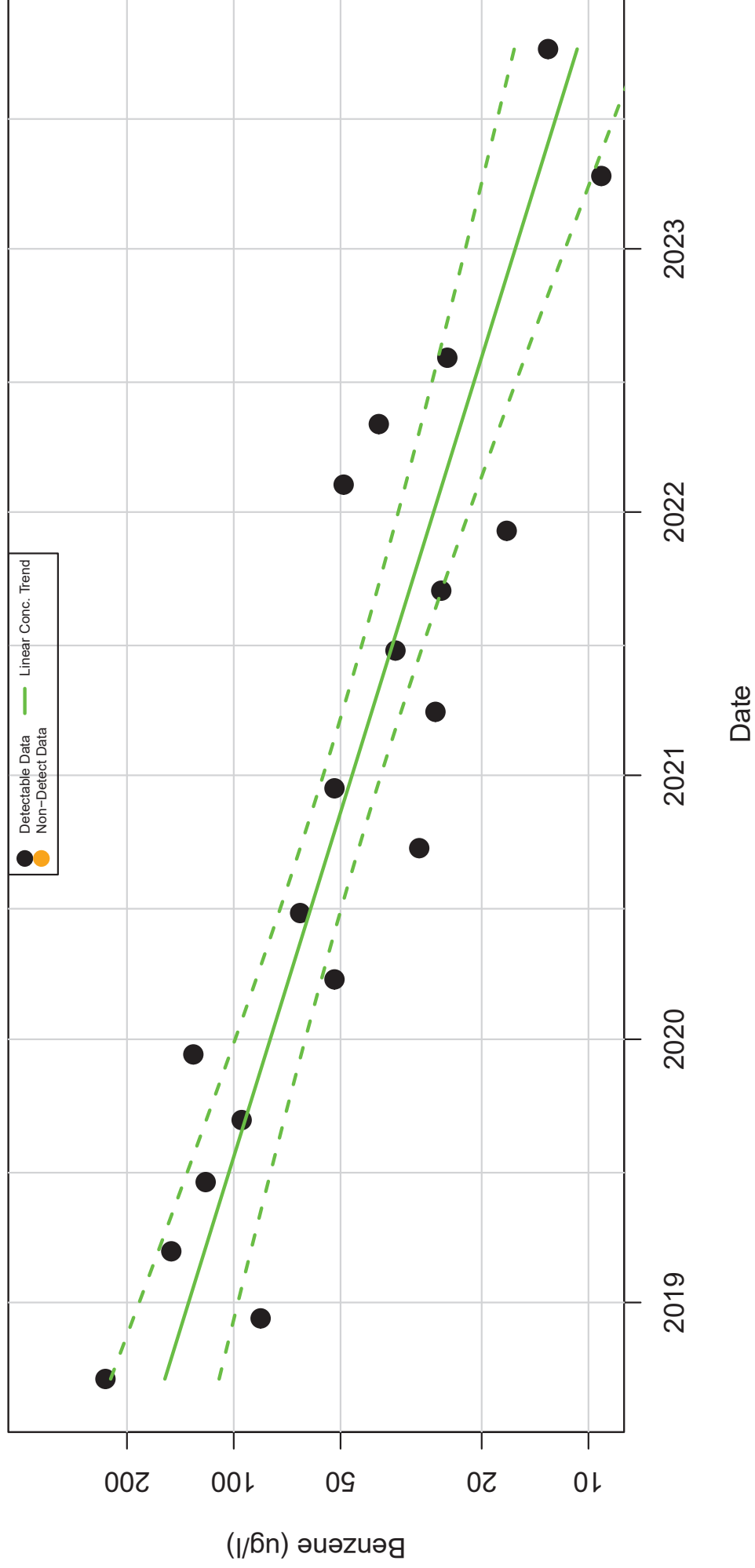
Benzene in G-18 : Aquifer-Blank

Mann-Kendall P.Value= 0.585; Half-Life= -1229 days



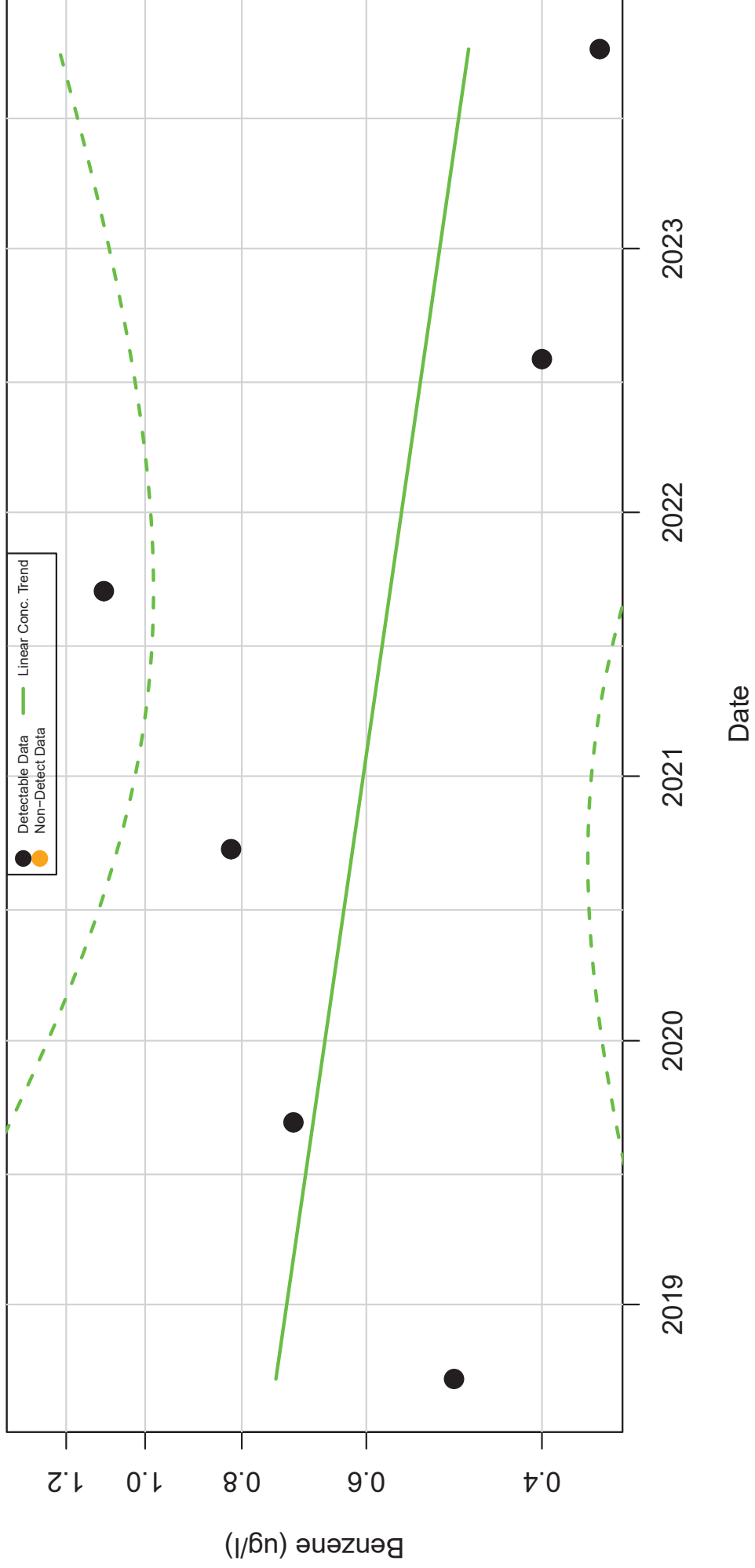
Benzene in HC-111 : Aquifer-Blank

Mann-Kendall P.Value= <0.01; Half-Life= 478 days



Benzene in RW-2 : Aquifer-Blank

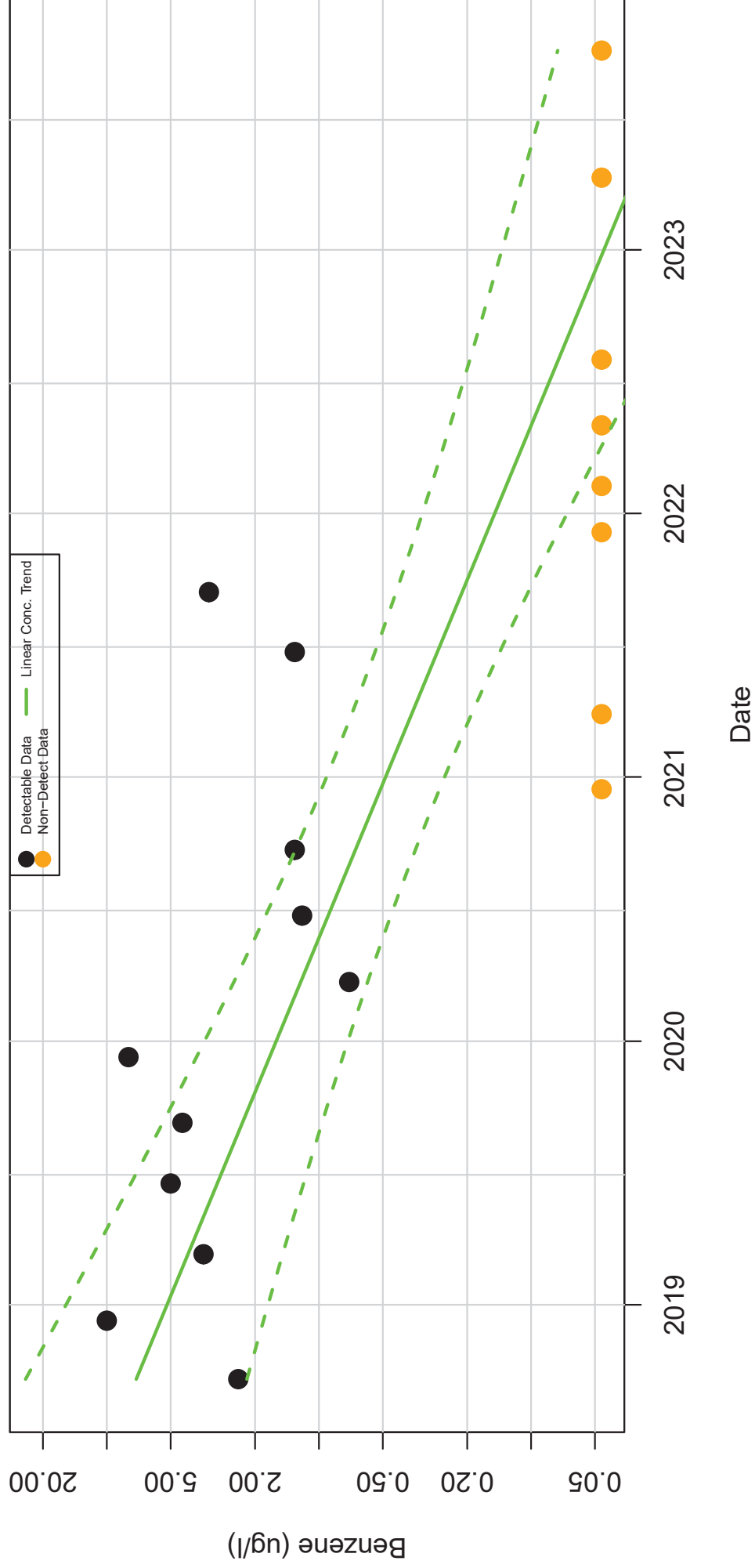
Mann-Kendall P.Value= 0.707; Half-Life> 5 Years



Mann-Kendall P.Value= 0.31; Half-Life= 564 days

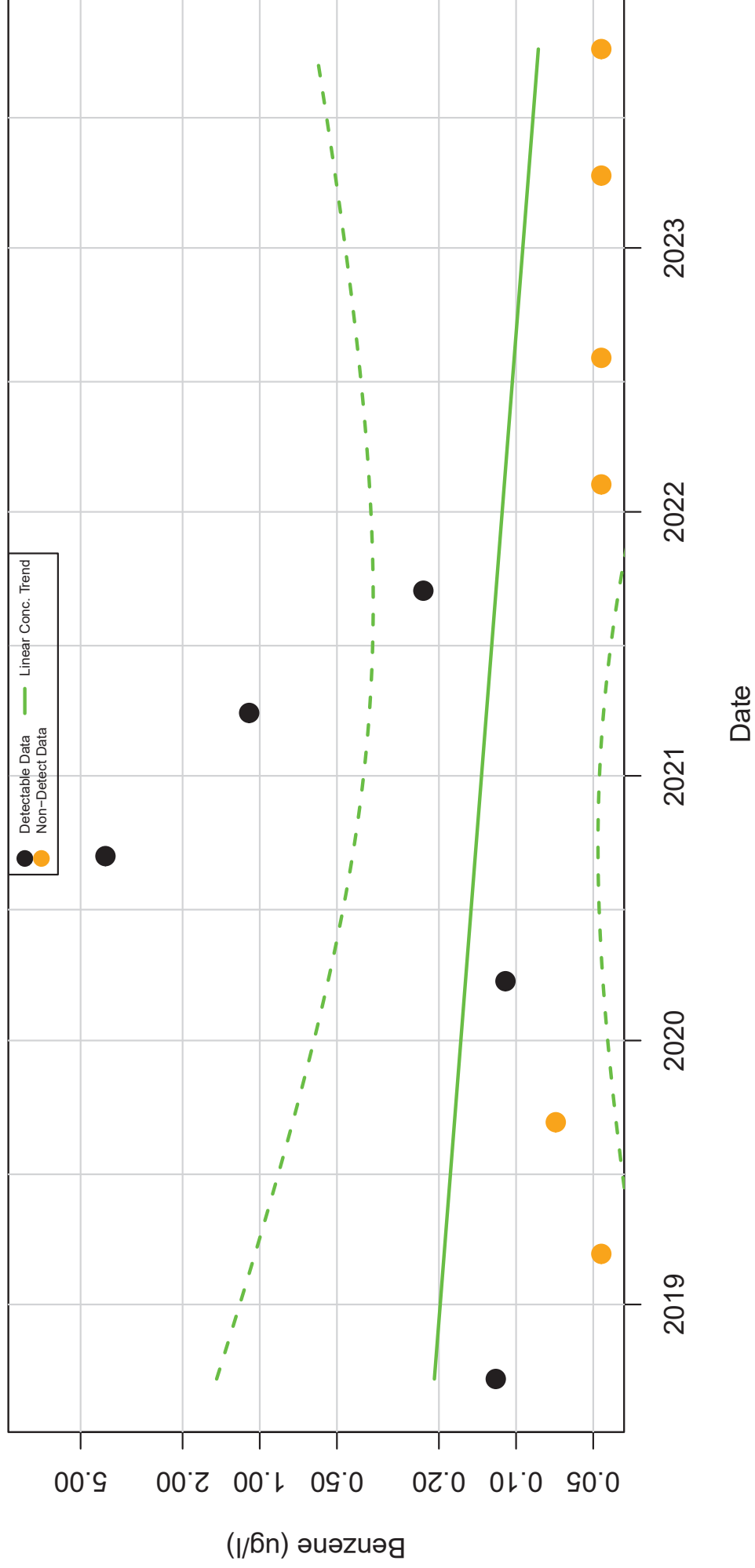


Benzene in RW-8 : Aquifer-Blank
Mann-Kendall P.Value= <0.01; Half-Life= 214 days



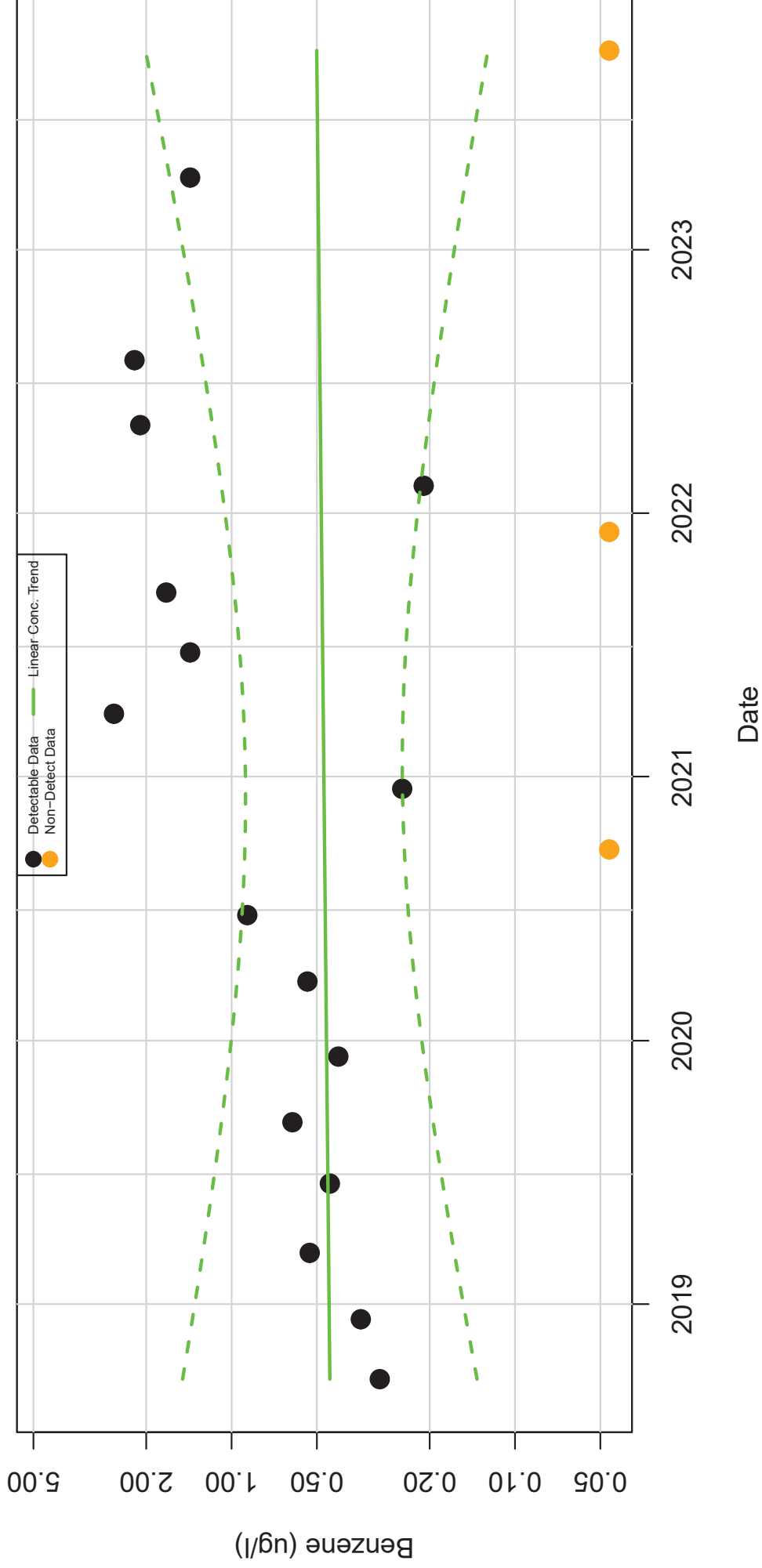
Benzene in T-3 : Aquifer-Blank

Mann-Kendall P-Value= 0.25; Half-Life= 1365 days

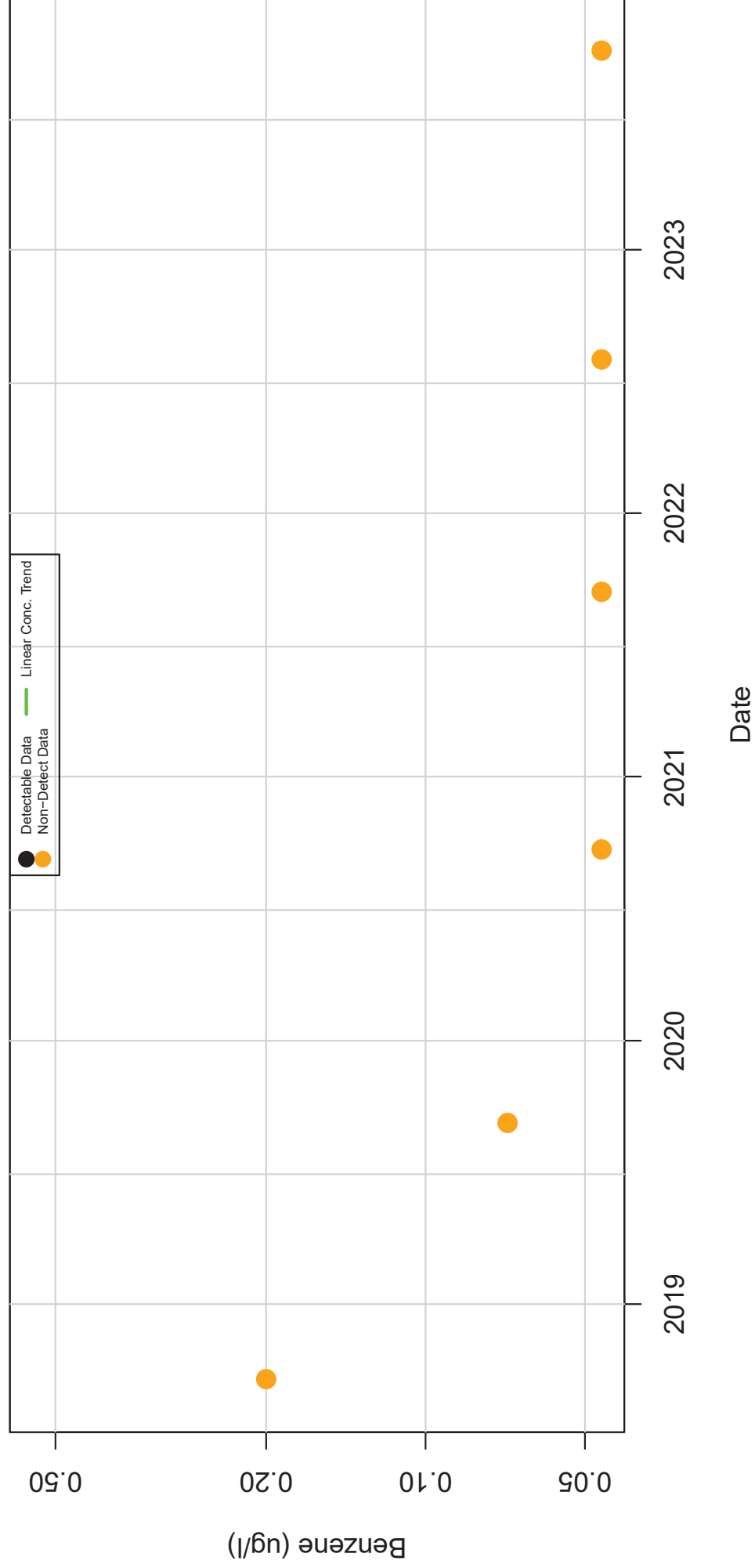


Benzene in E-22 : Aquifer-Blank

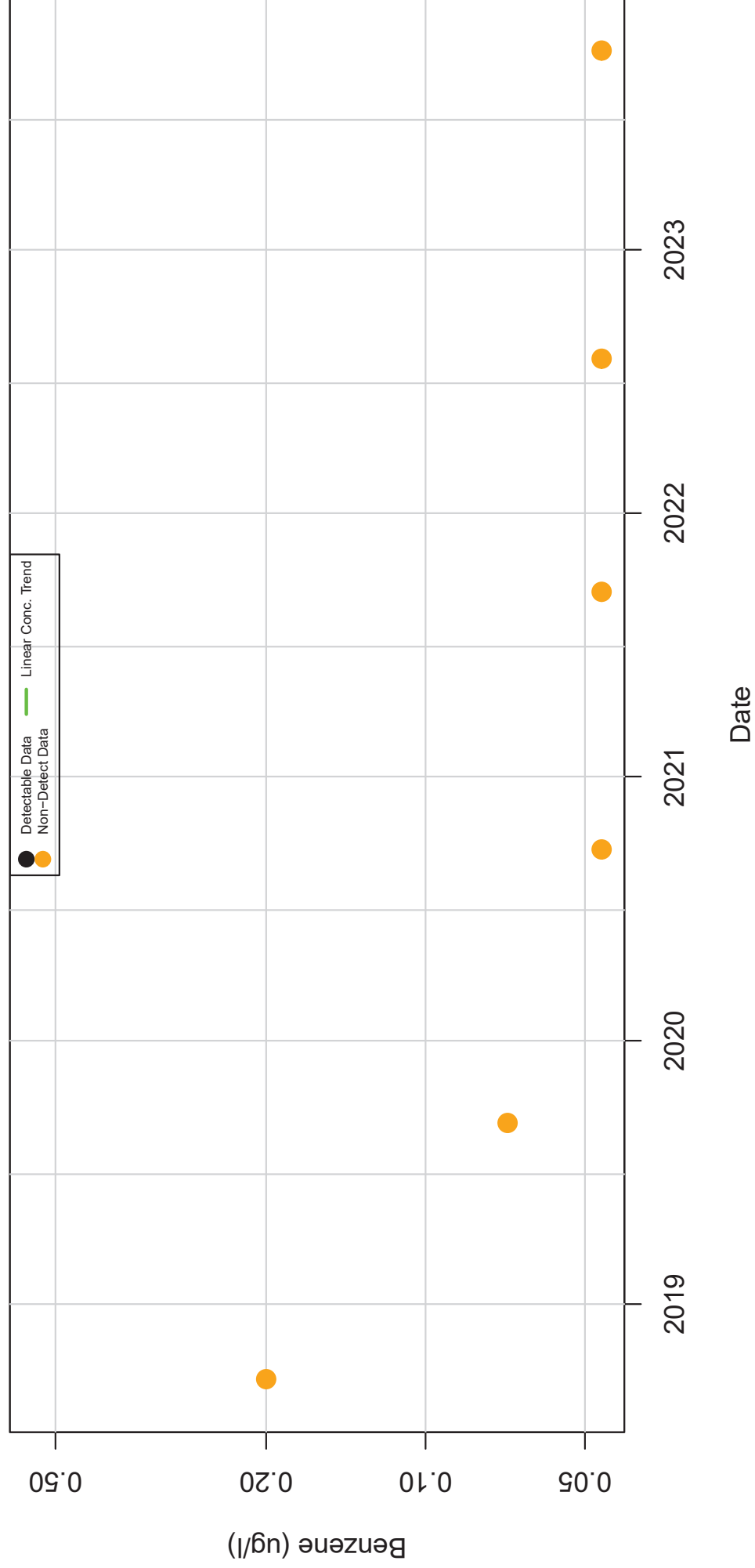
Mann-Kendall P-Value= 0.326; Half-Life> -5 Years



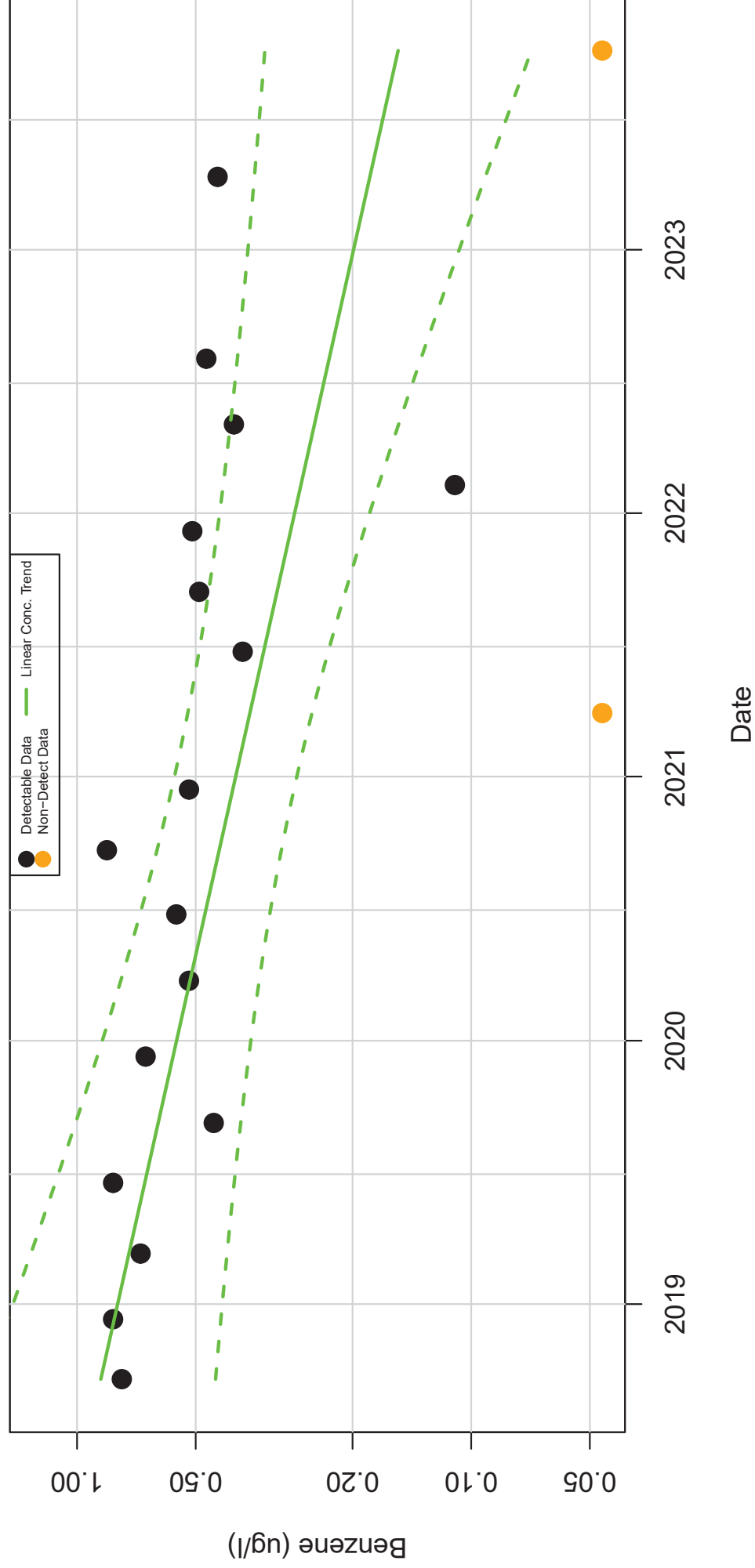
Benzene in FW-3 : Aquifer-Blank



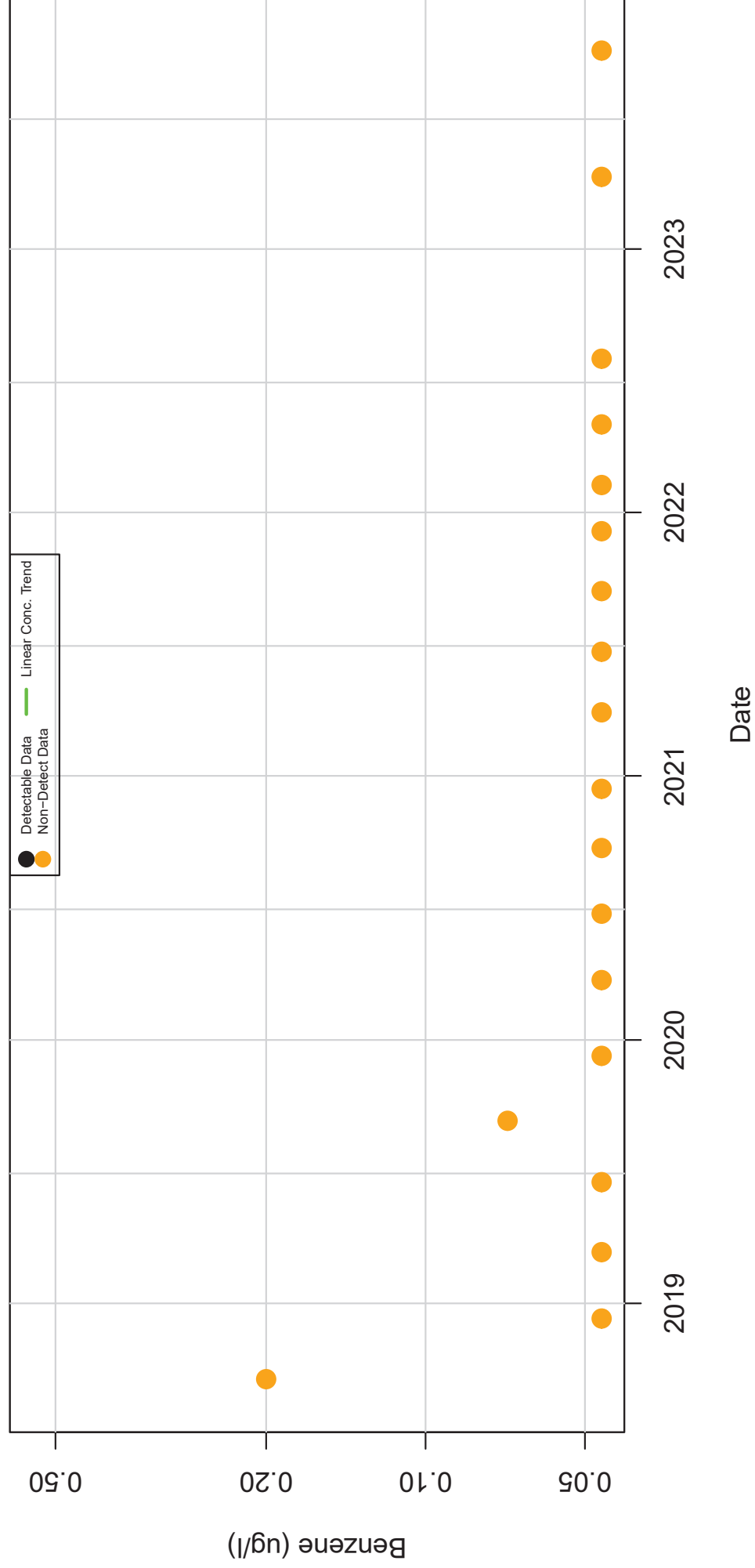
Benzene in FW-4 : Aquifer-Blank



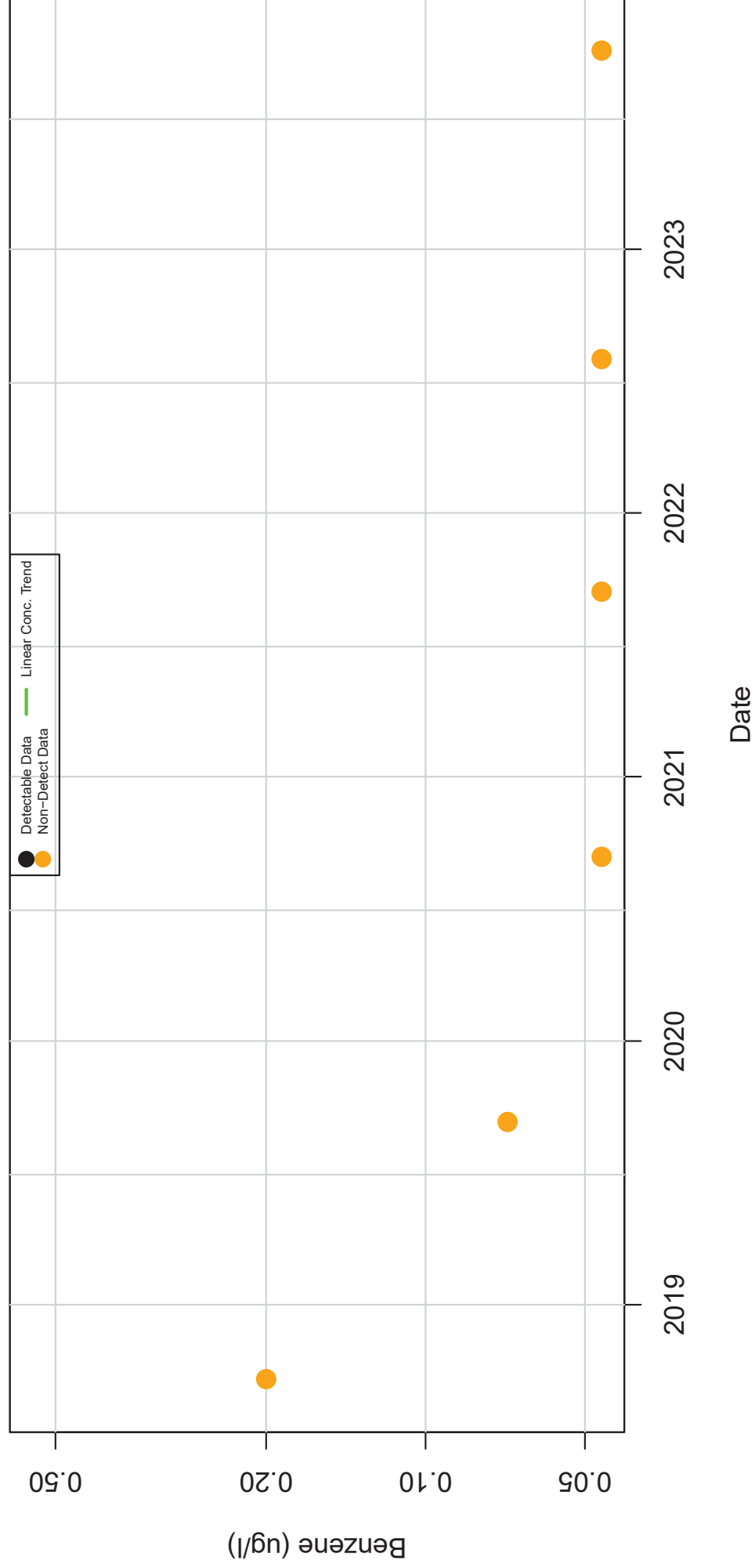
Mann-Kendall P.Value= <0.01; Half-Life= 735 days



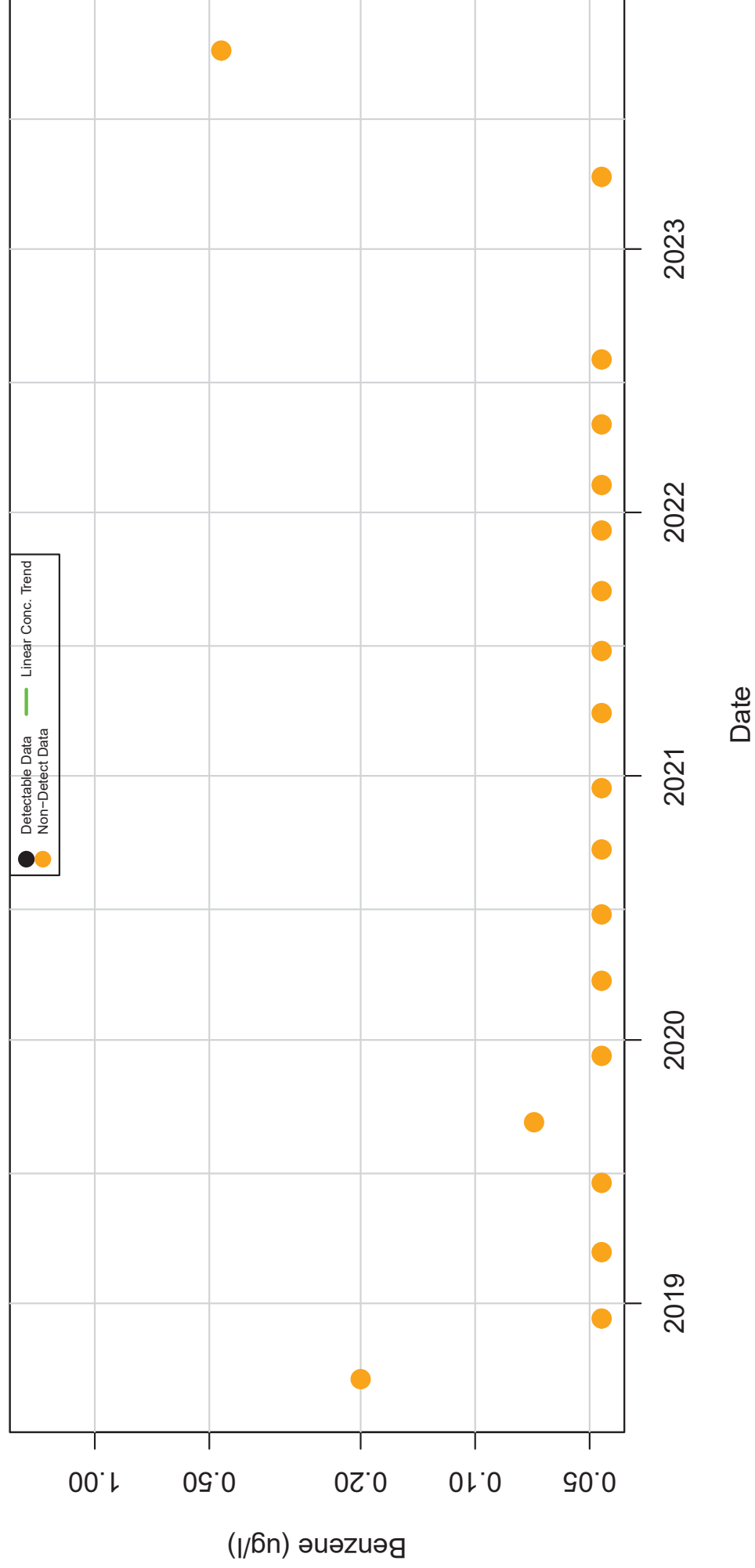
Benzene in FW-14 : Aquifer-Blank



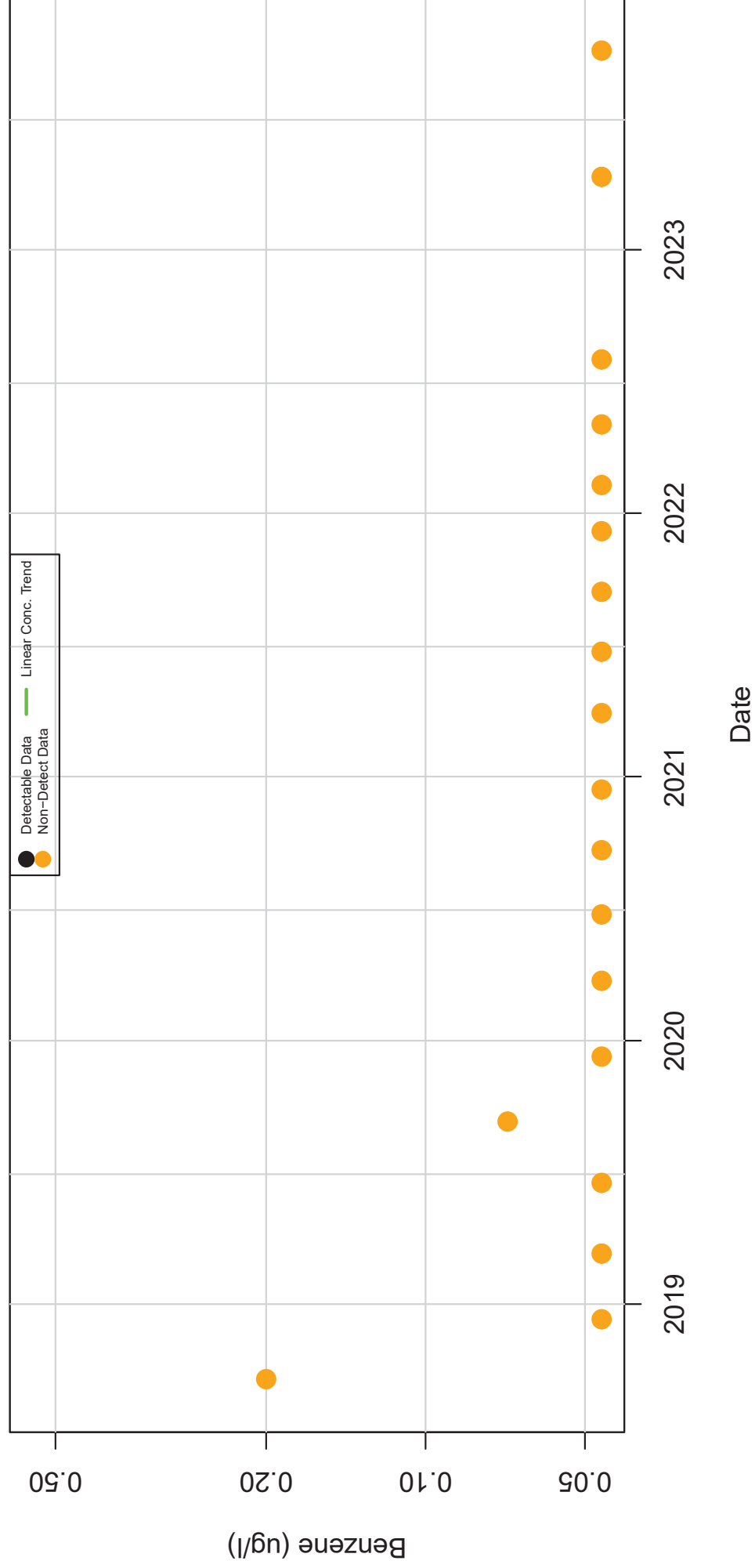
Benzene in FW-15 : Aquifer-Blank



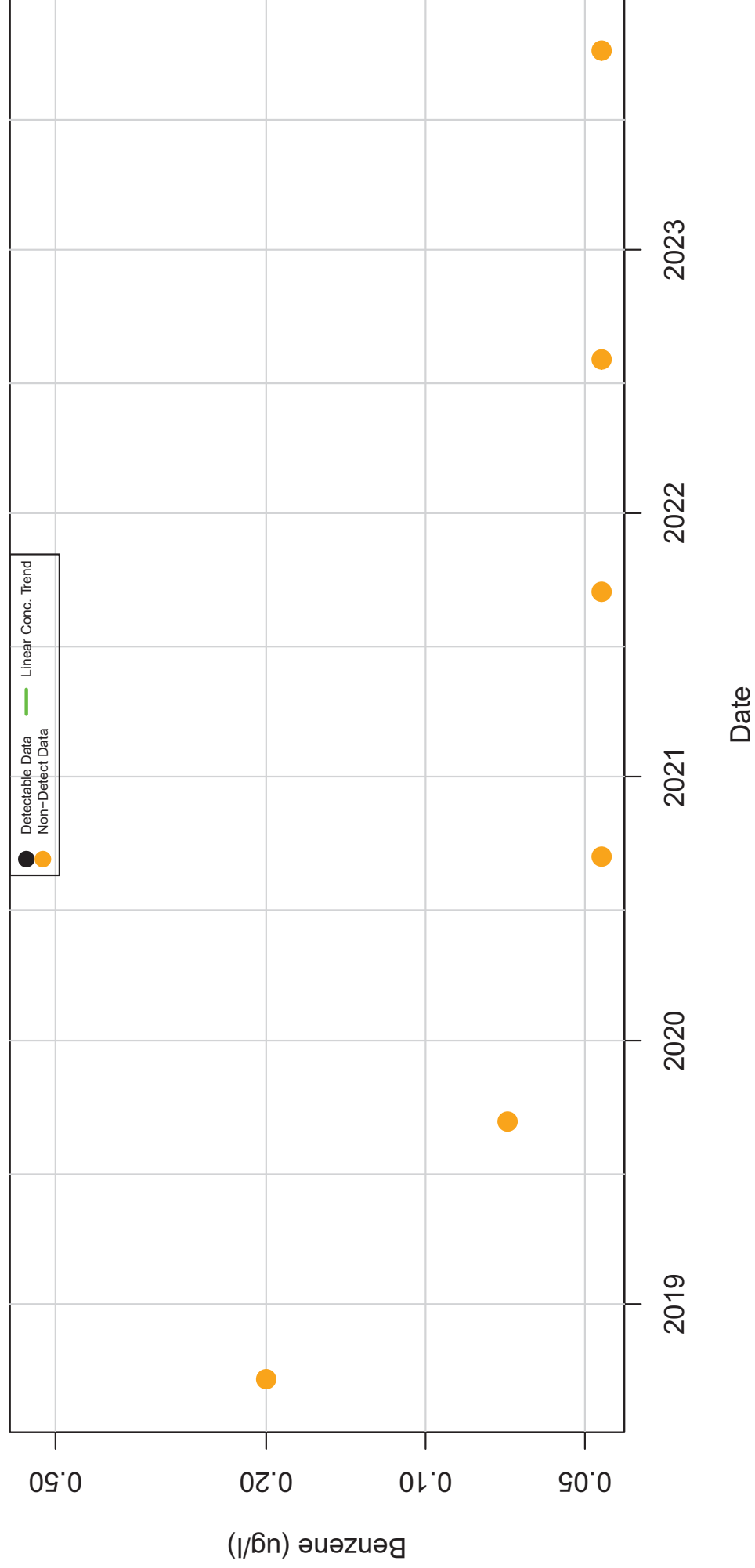
Benzene in RR-1 : Aquifer-Blank



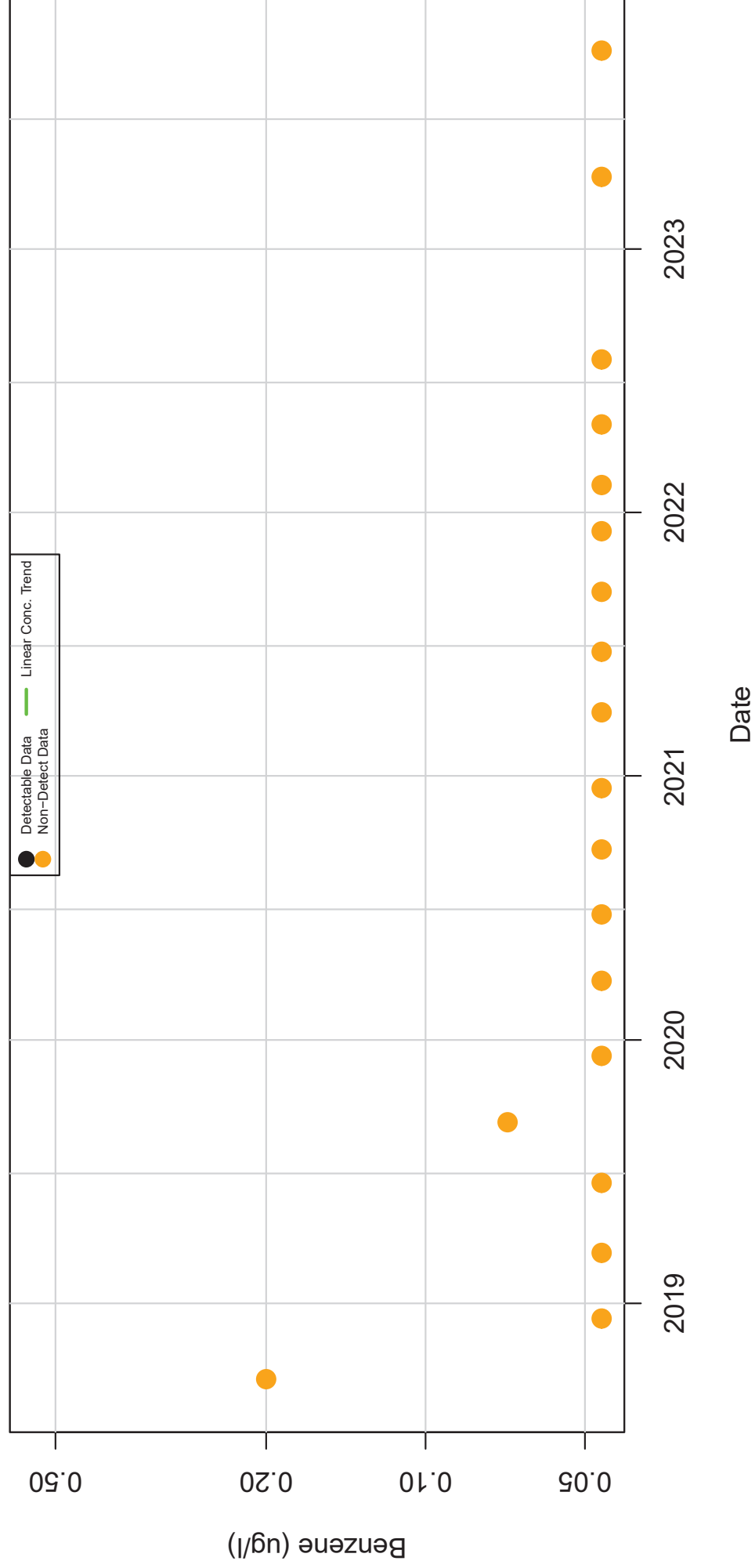
Benzene in RR-2 : Aquifer-Blank



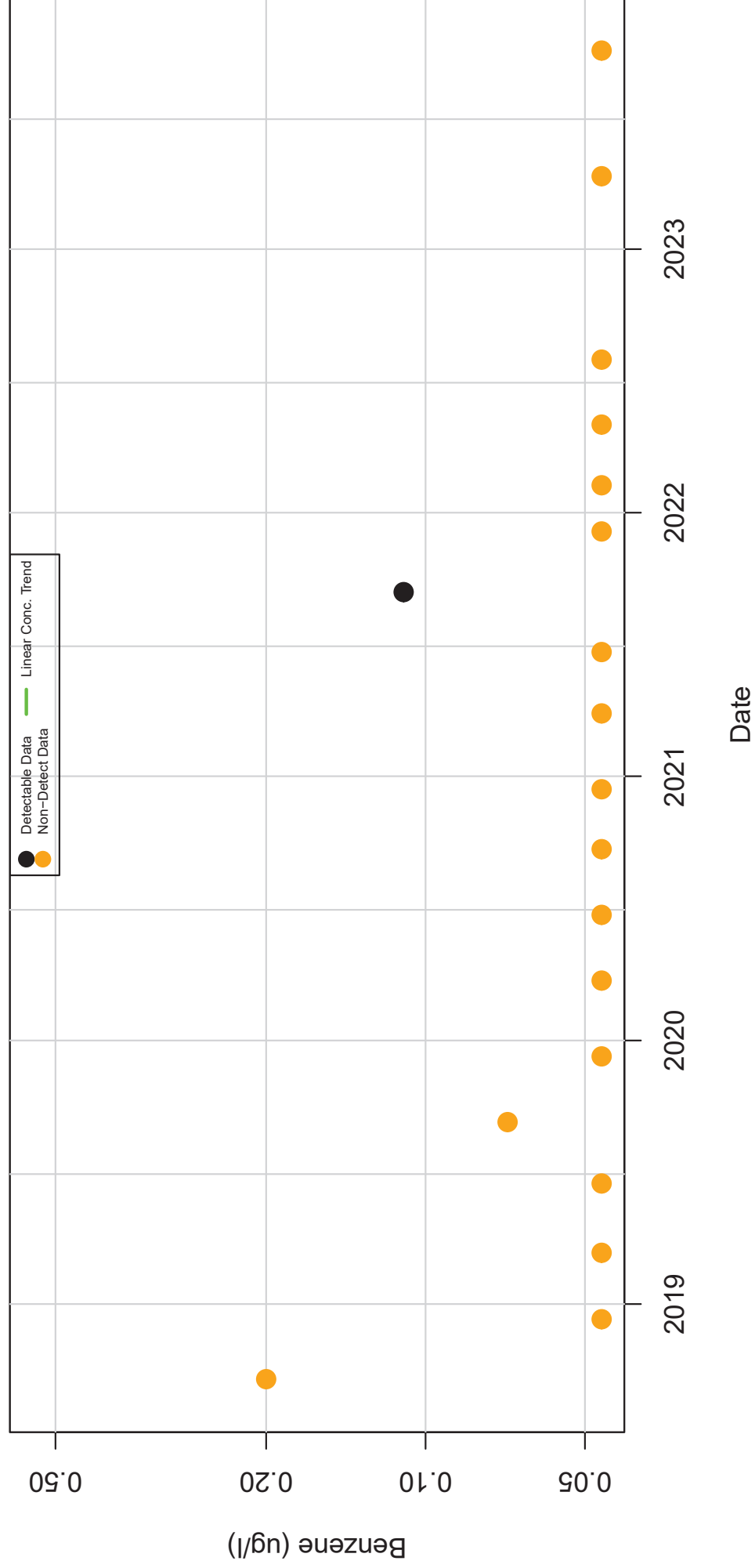
Benzene in RR-3 : Aquifer-Blank



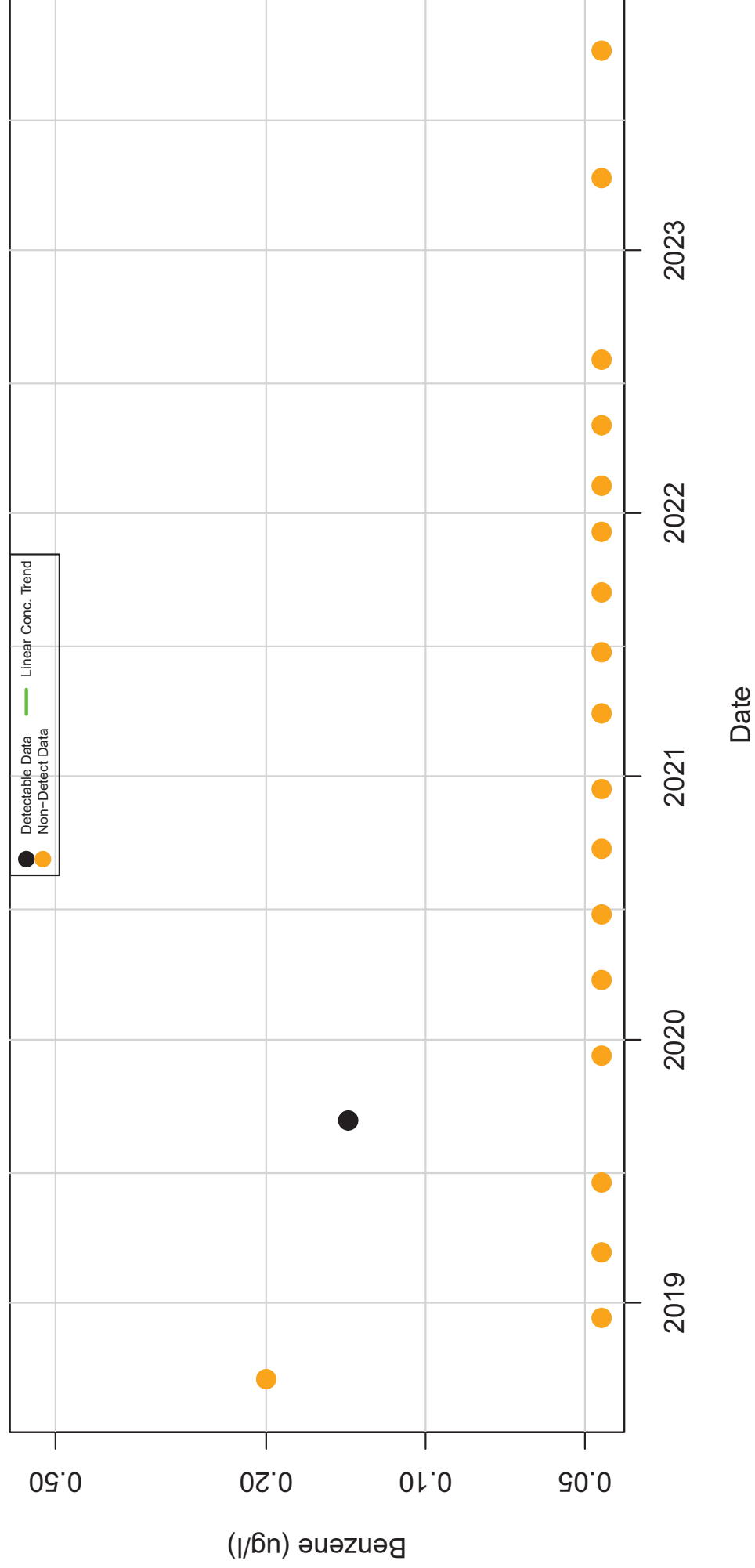
Benzene in RR-4 : Aquifer-Blank



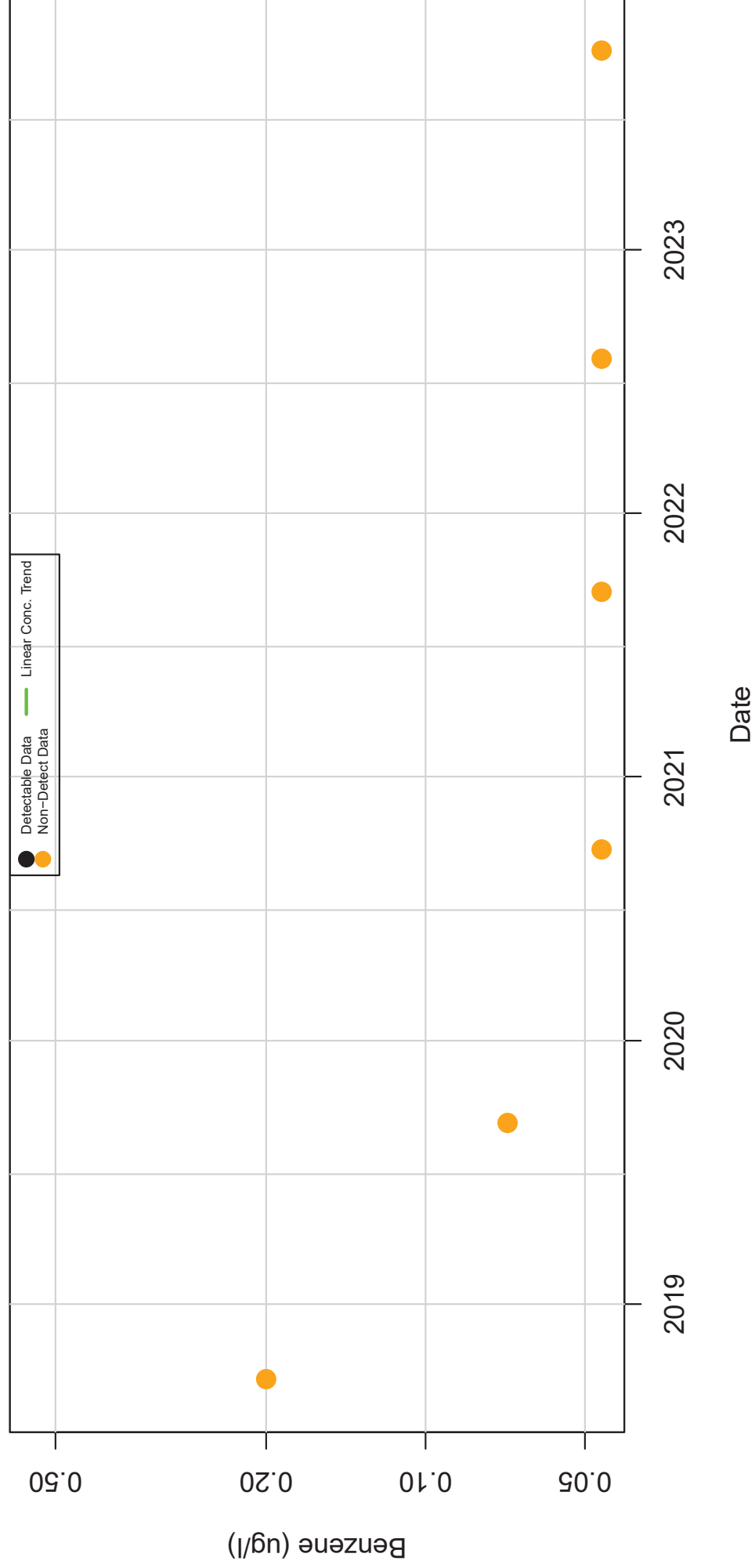
Benzene in RR-5 : Aquifer-Blank



Benzene in T-2 : Aquifer-Blank

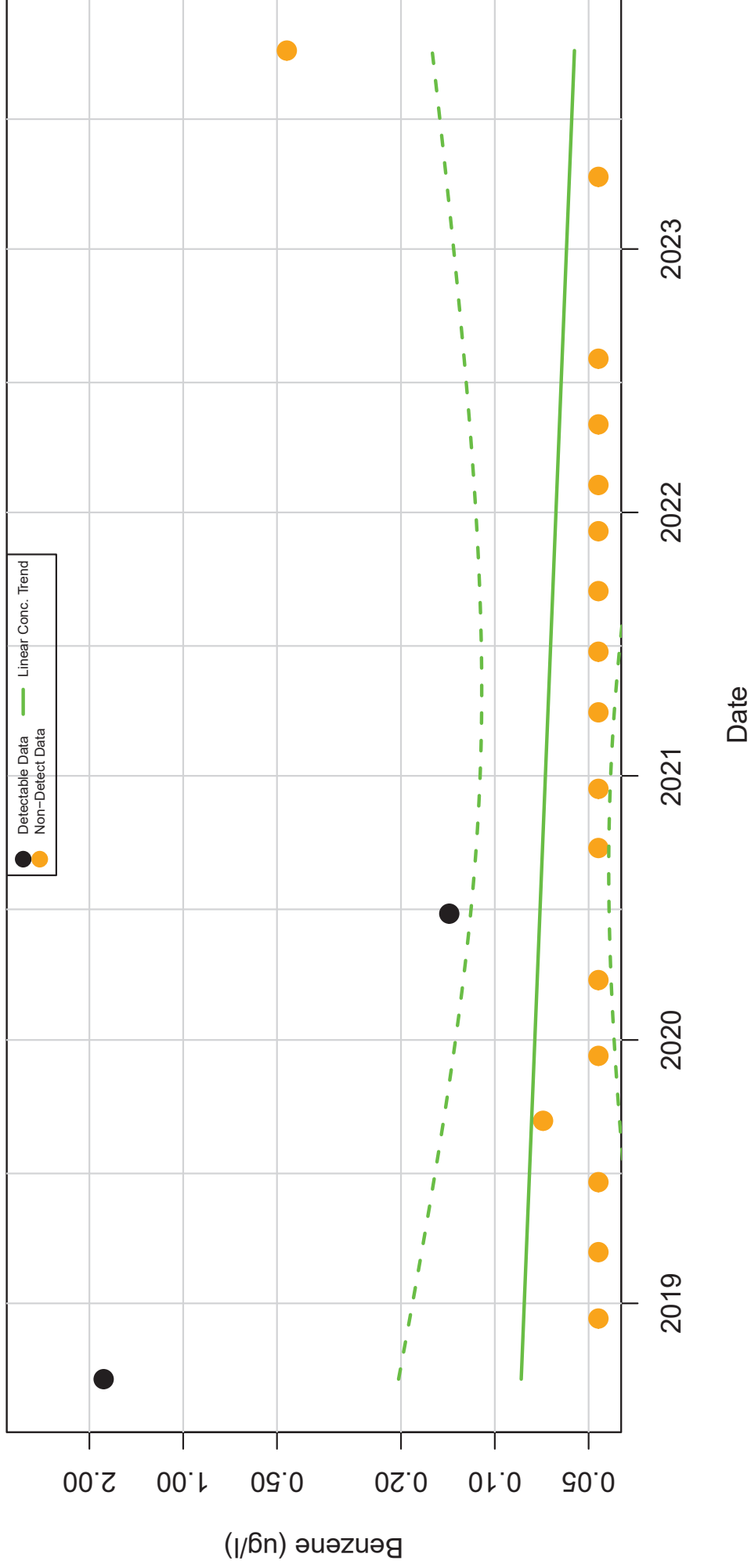


Benzene in DMW-1 : Aquifer-Blank

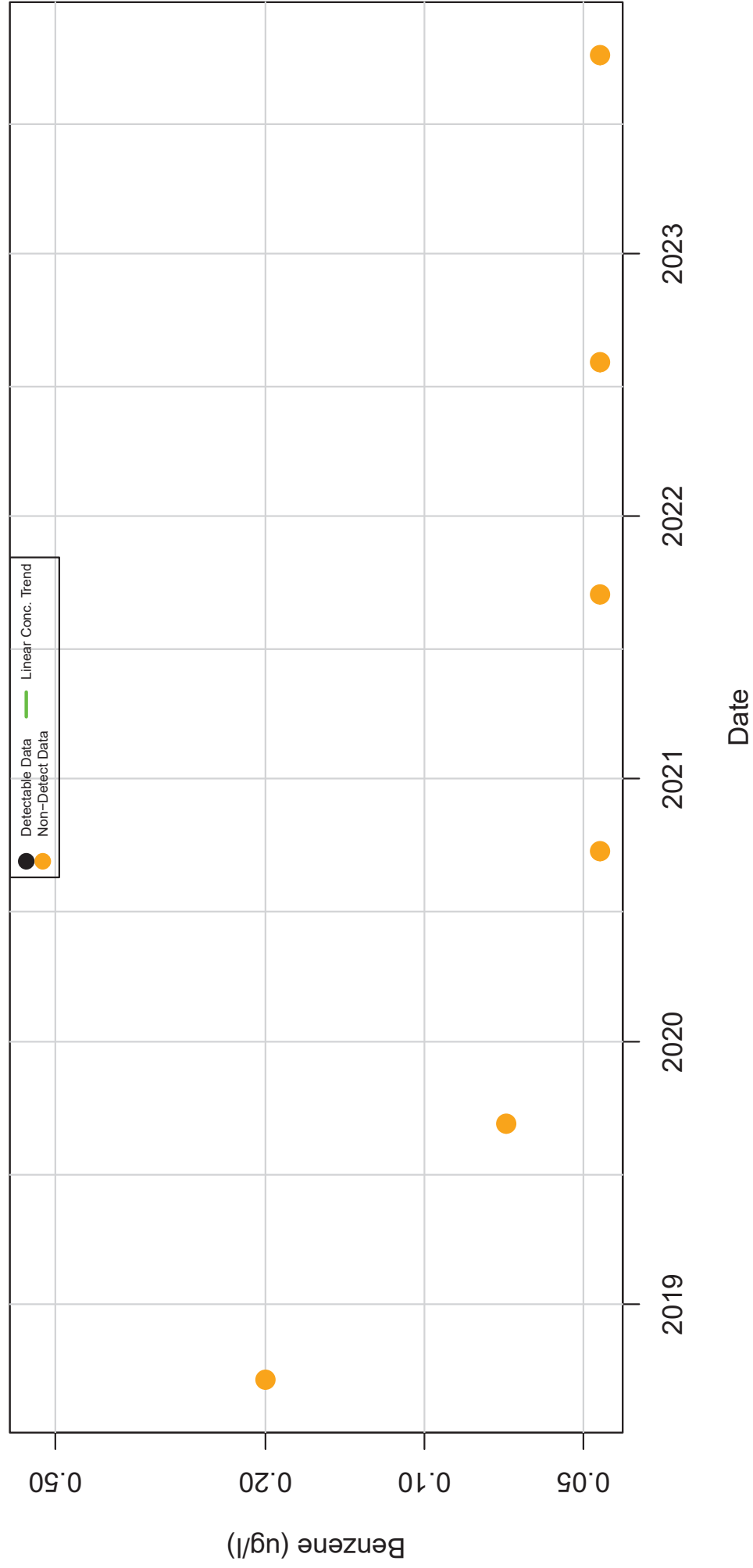


Benzene in DMW-2 : Aquifer-Blank

Mann-Kendall P-Value= 0.52; Half-Life> 5 Years



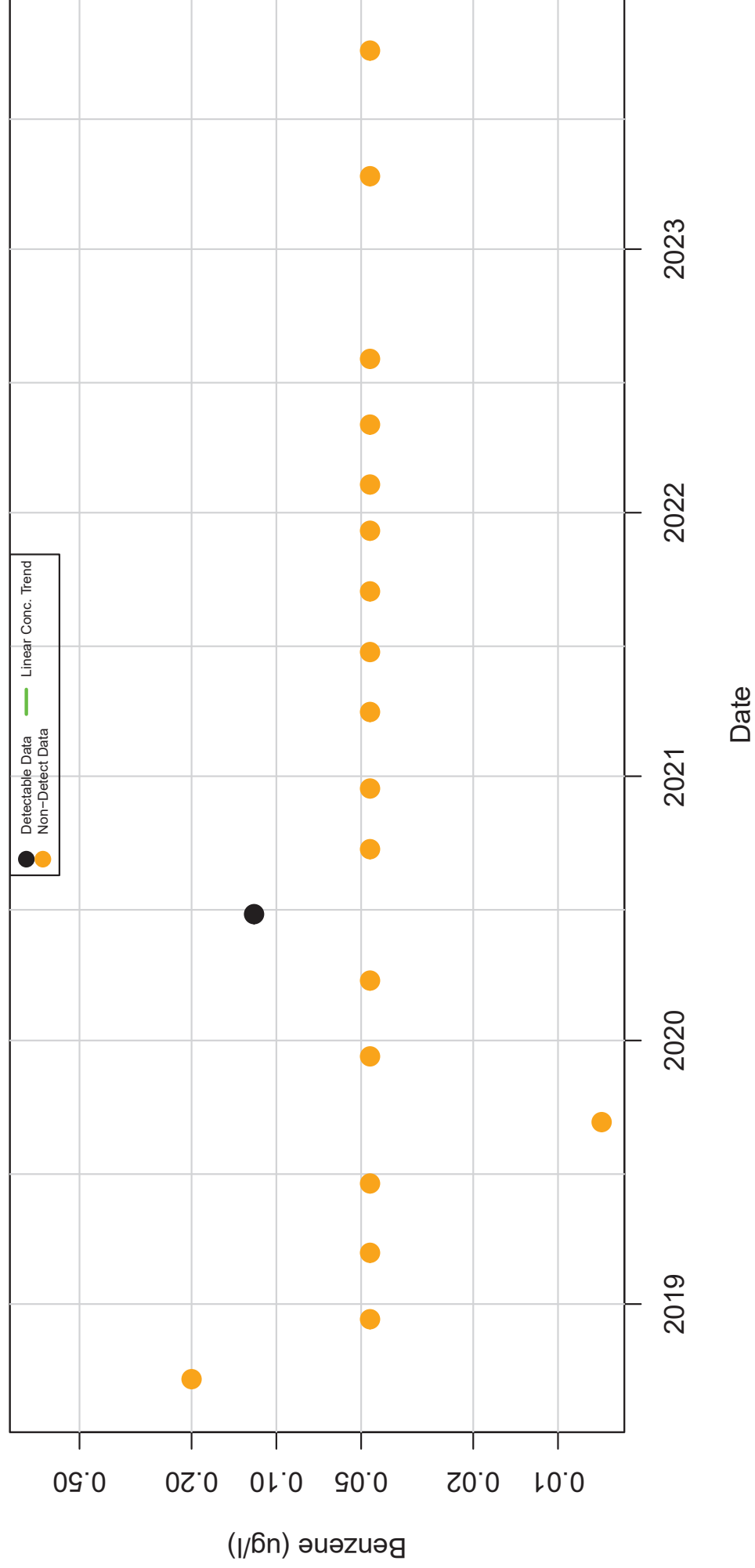
Benzene in DMW-3 : Aquifer-Blank



Benzene in DMW-4 : Aquifer-Blank



Benzene in FW-13 : Aquifer-Blank



TPH-D in B-17B : Aquifer-Blank

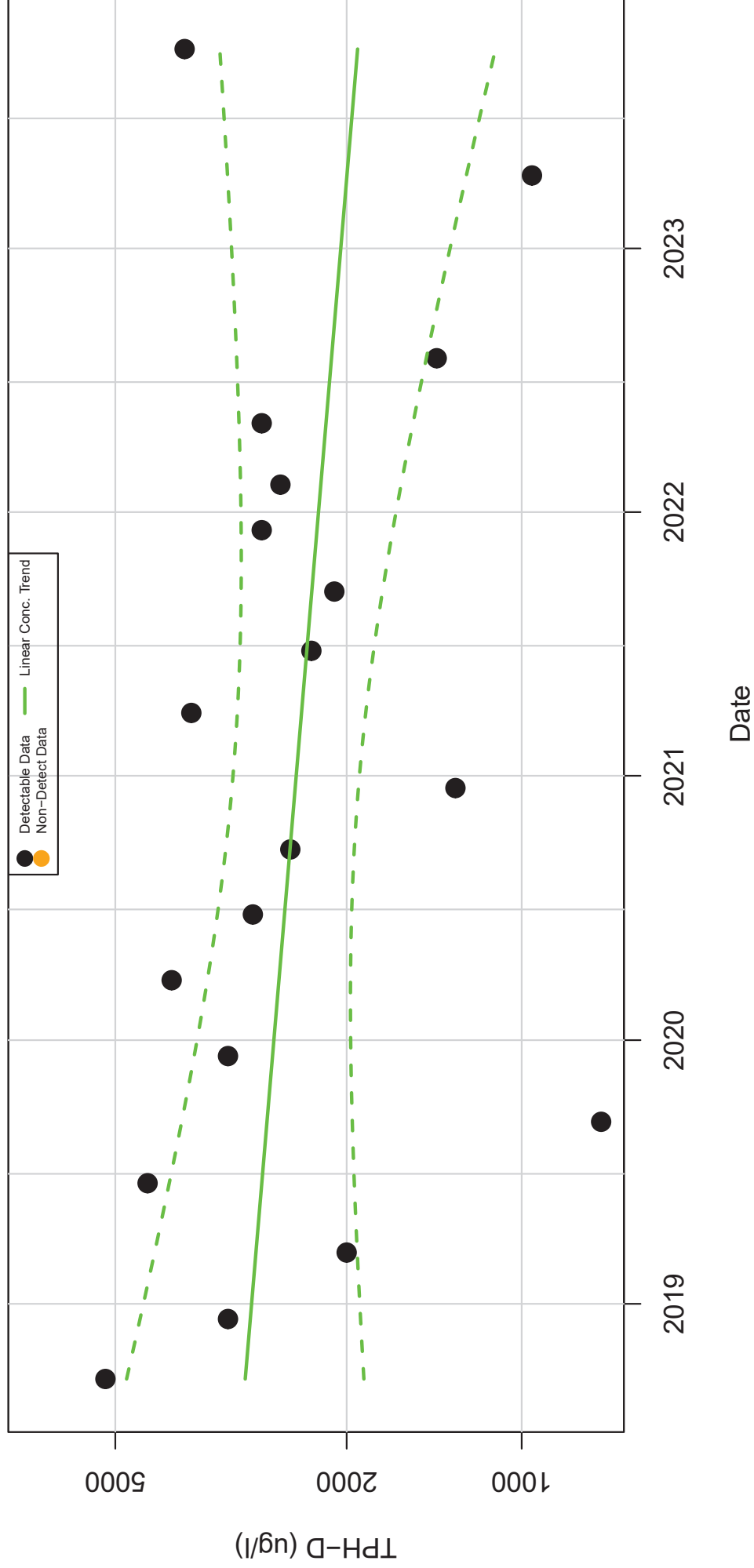


TPH-D in B-30 : Aquifer-Blank



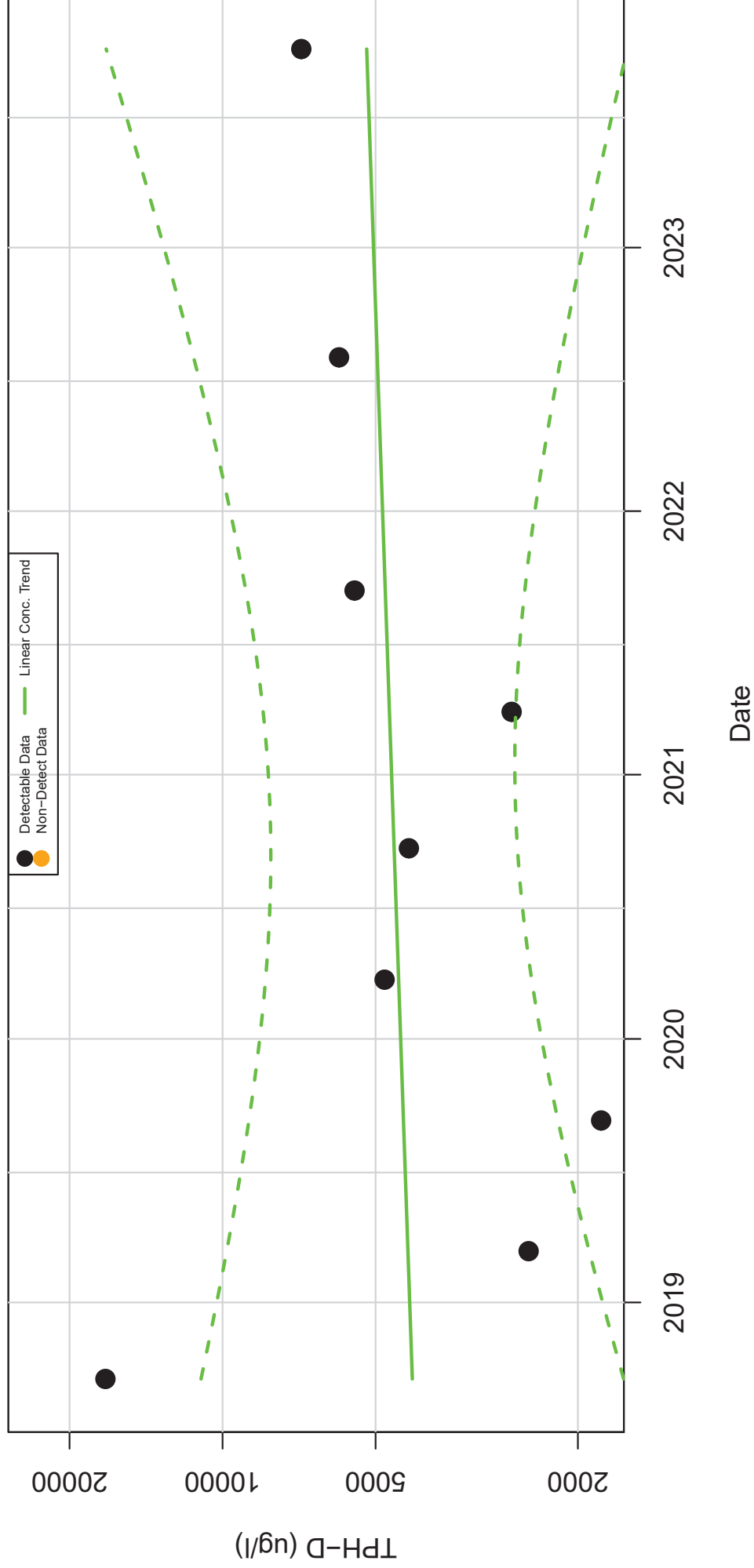
TPH-D in B-31 : Aquifer-Blank

Mann-Kendall P.Value= 0.141; Half-Life> 5 Years



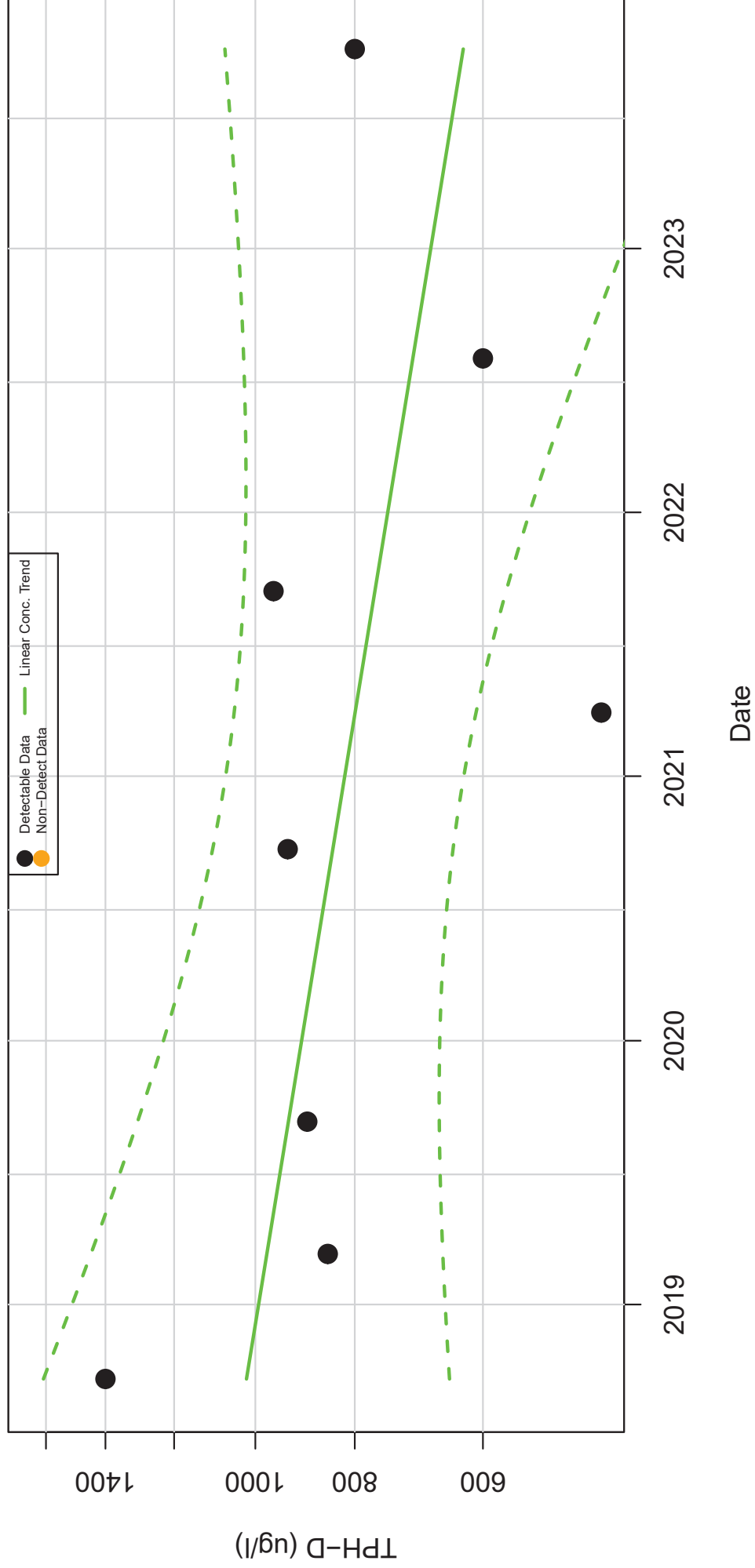
TPH-D in E-21 : Aquifer-Blank

Mann-Kendall P.Value= 0.251; Half-Life> -5 Years



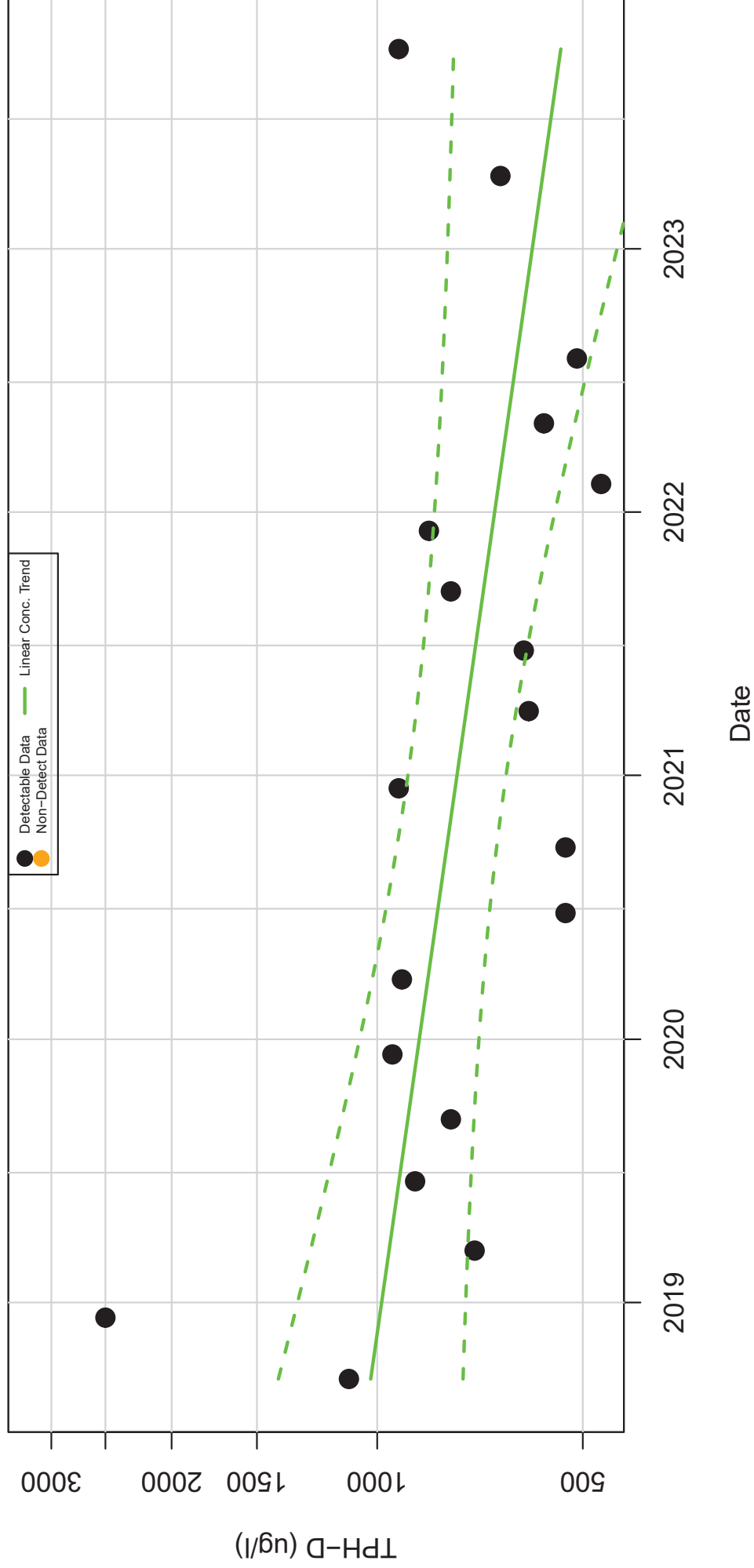
TPH-D in B-19 : Aquifer-Blank

Mann-Kendall P.Value= 0.386; Half-Life> 5 Years



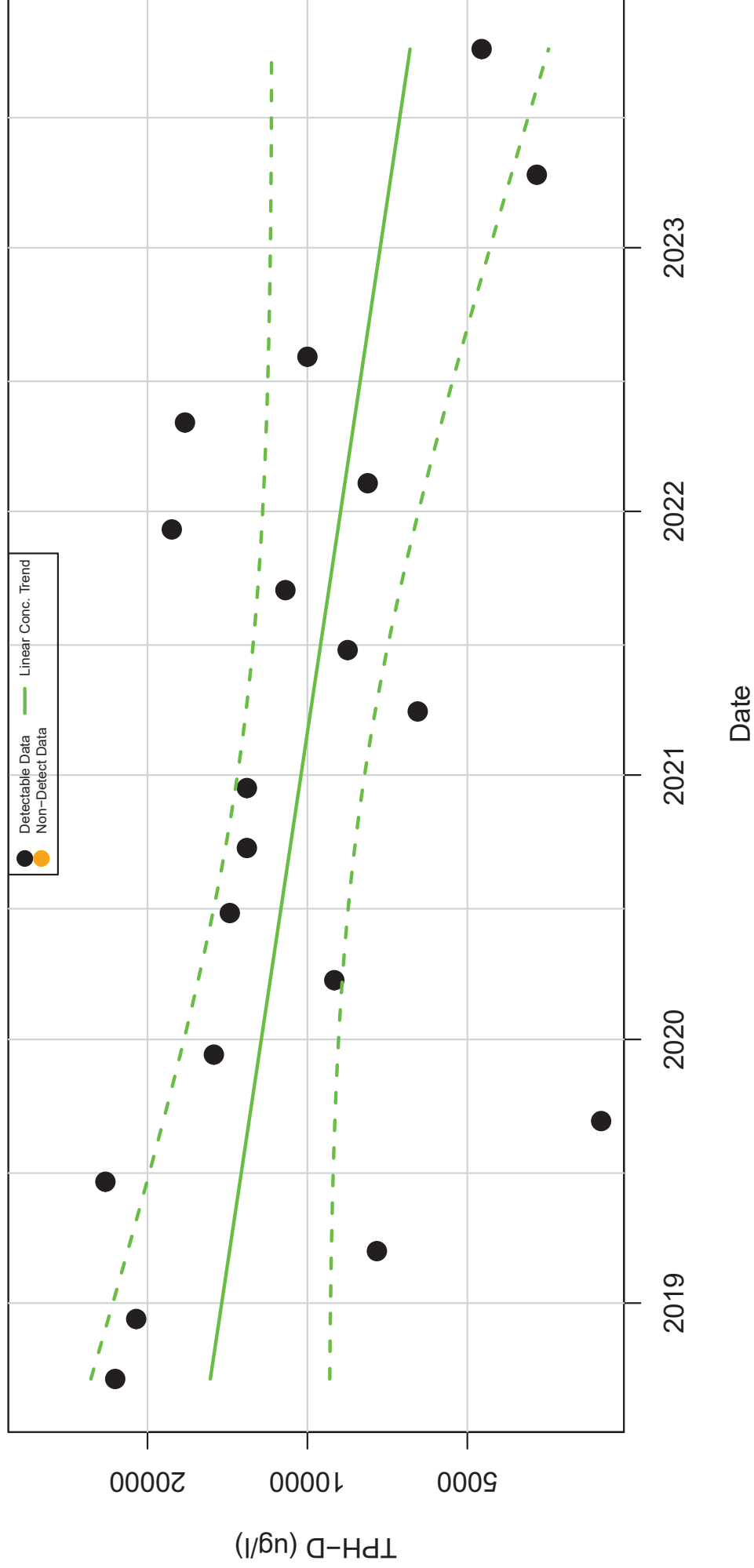
TPH-D in B-25 : Aquifer-Blank

Mann-Kendall P-Value= 0.0632; Half-Life> 5 Years



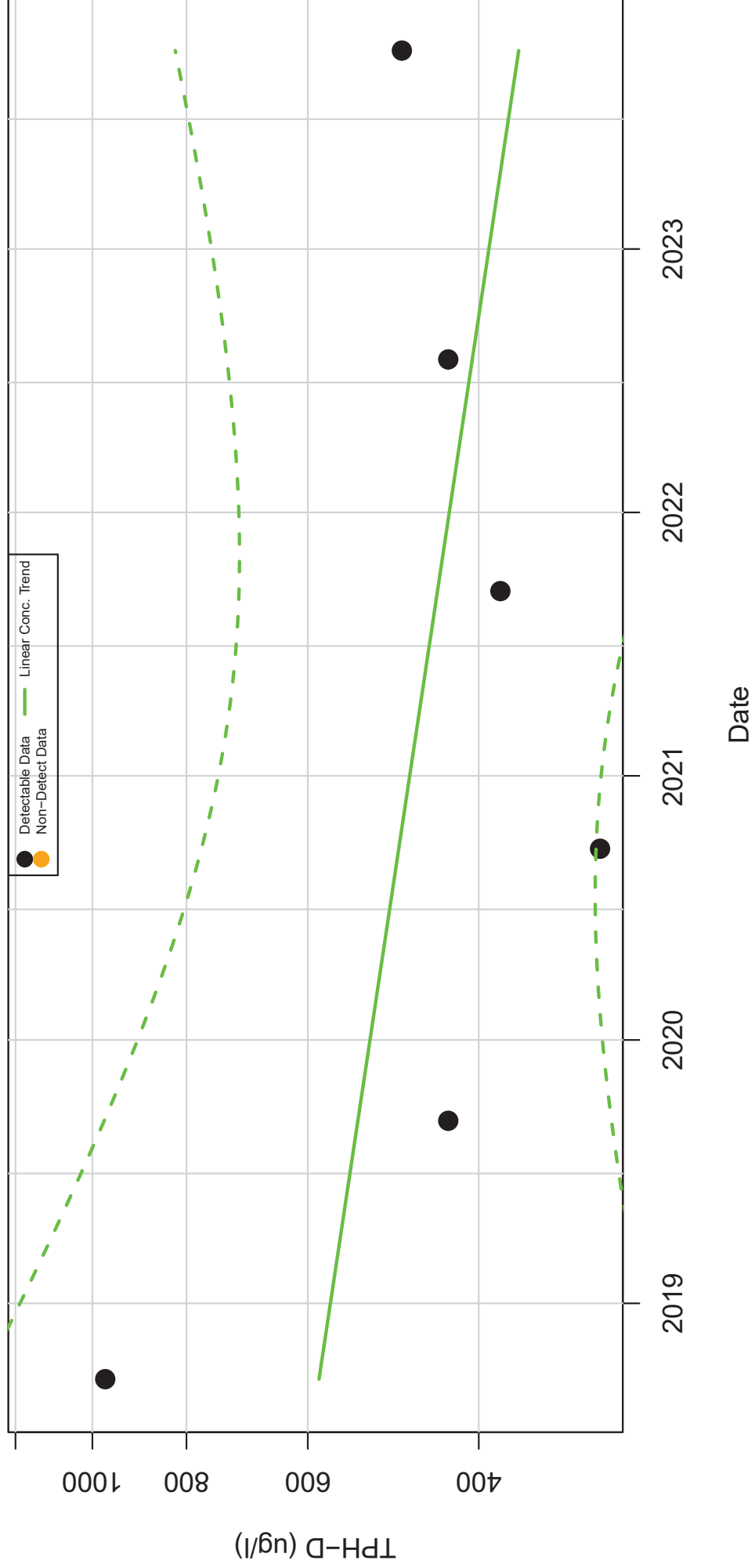
TPH-D in B-34 : Aquifer-Blank

Mann-Kendall P-Value= 0.0635; Half-Life= 1474 days



TPH-D in G-8 : Aquifer-Blank

Mann-Kendall P.Value= 1; Half-Life> 5 Years



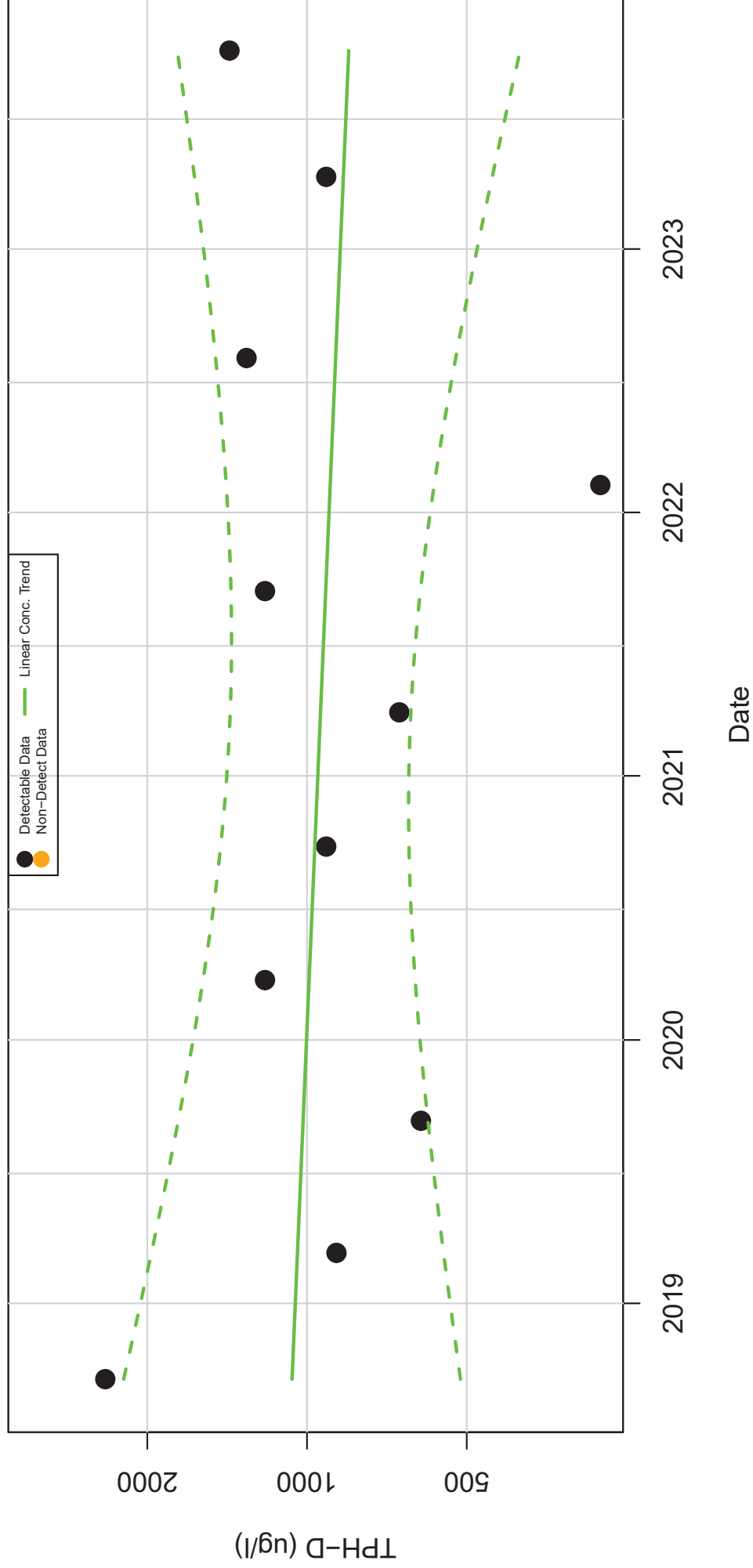
TPH-D in G-16 : Aquifer-Blank

Mann-Kendall P.Value= 1; Half-Life= 418 days



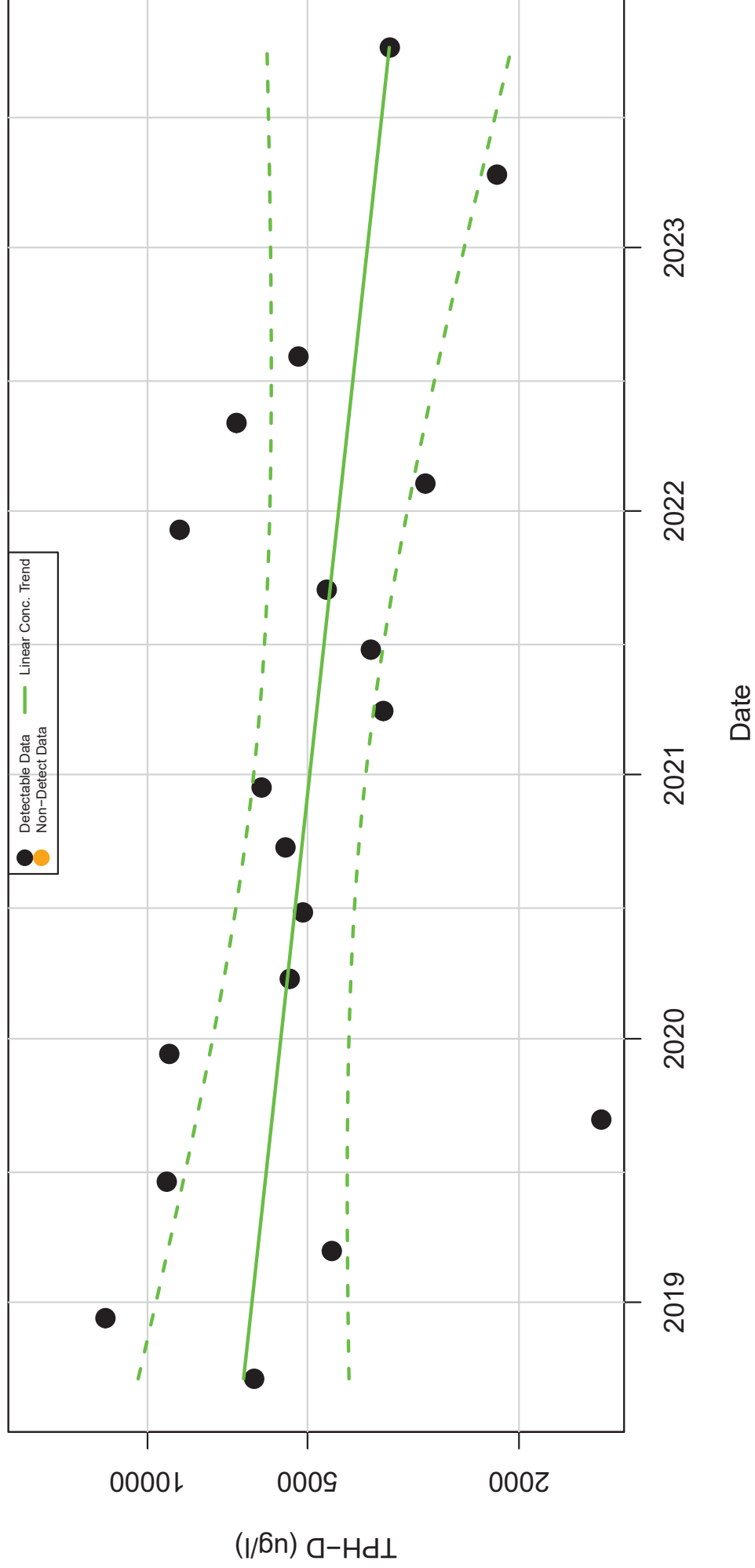
TPH-D in G-18 : Aquifer-Blank

Mann-Kendall P.Value= 0.754; Half-Life> 5 Years



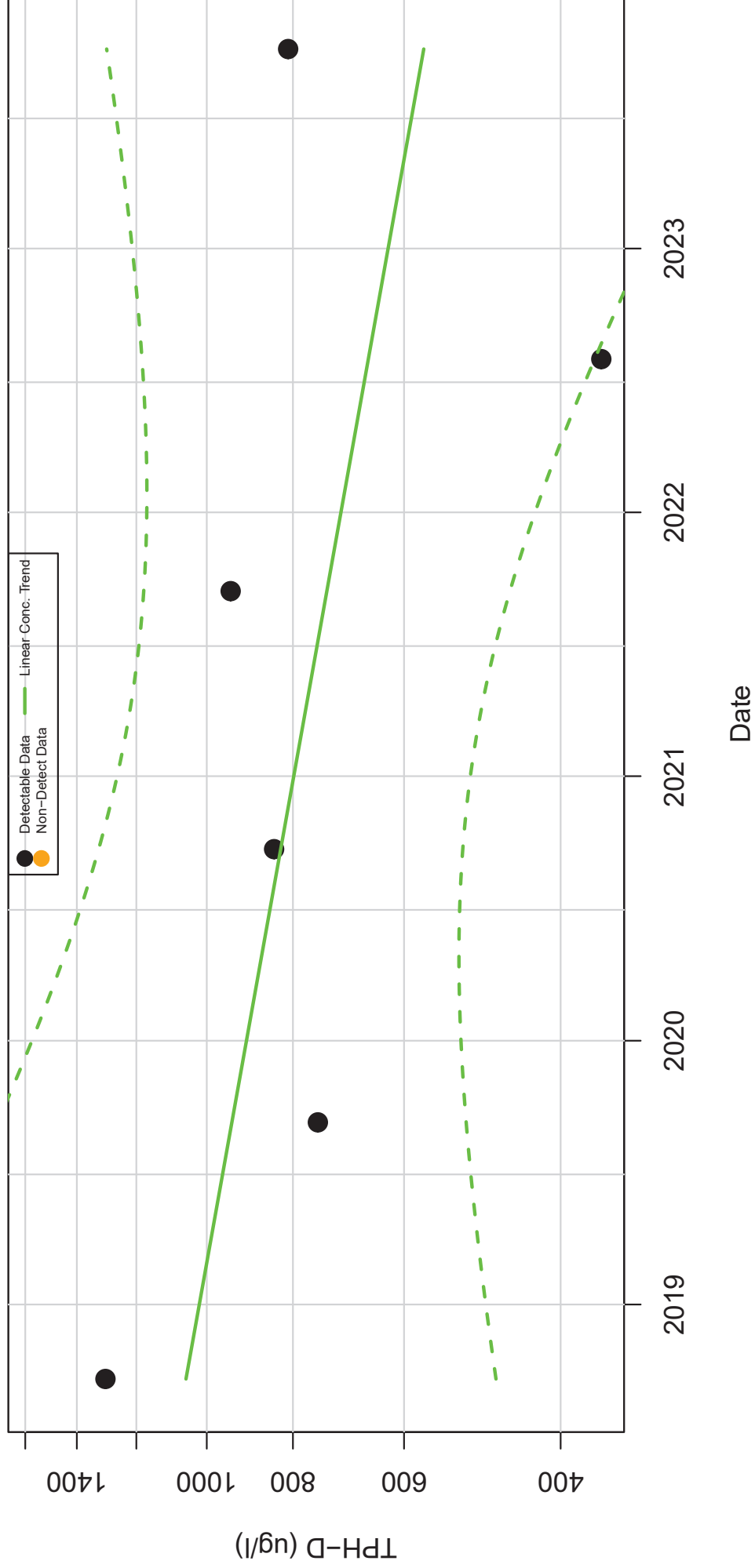
TPH-D in HC-111 : Aquifer-Blank

Mann-Kendall P-Value= 0.0689; Half-Life> 5 Years



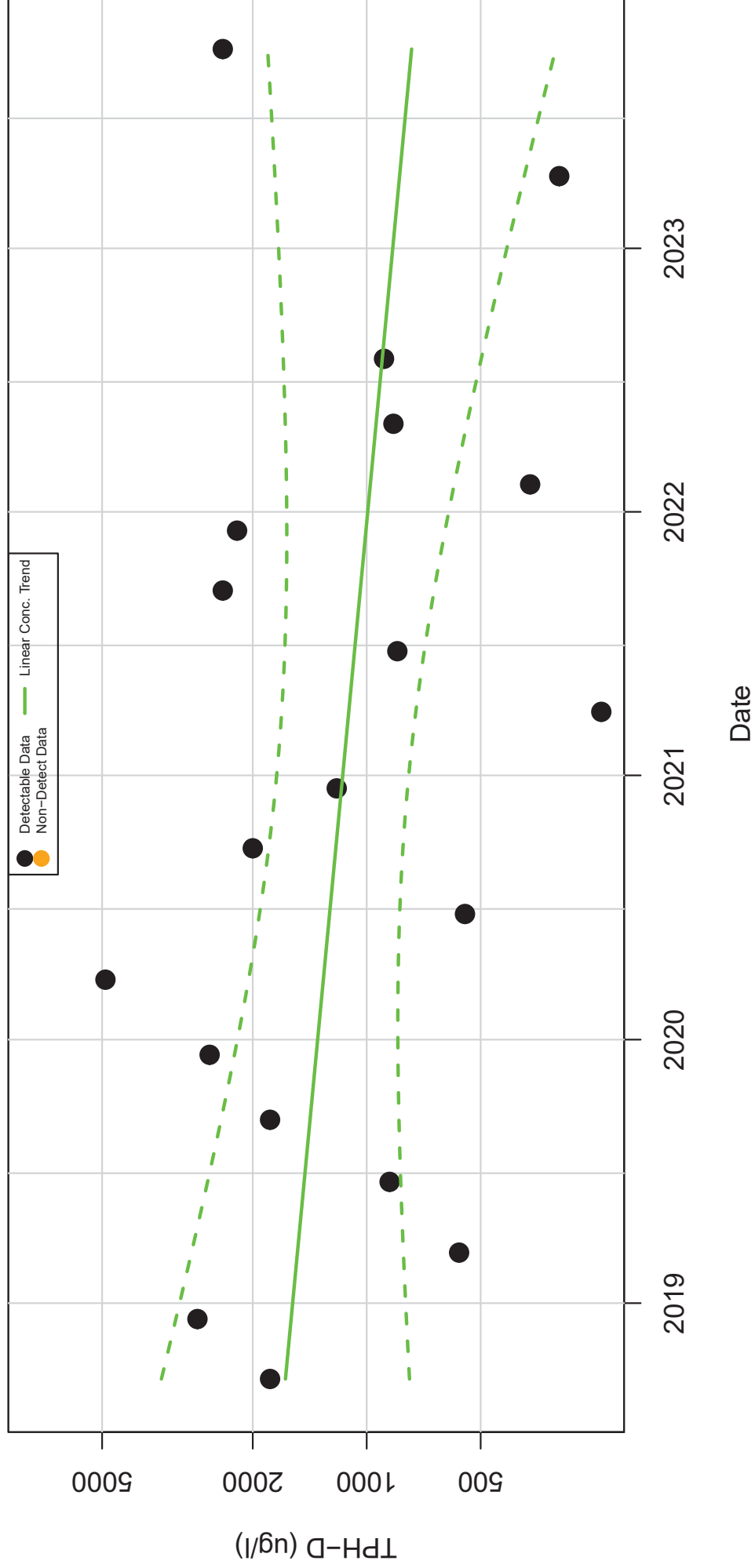
TPH-D in RW-2 : Aquifer-Blank

Mann-Kendall P.Value= 0.452; Half-Life> 5 Years



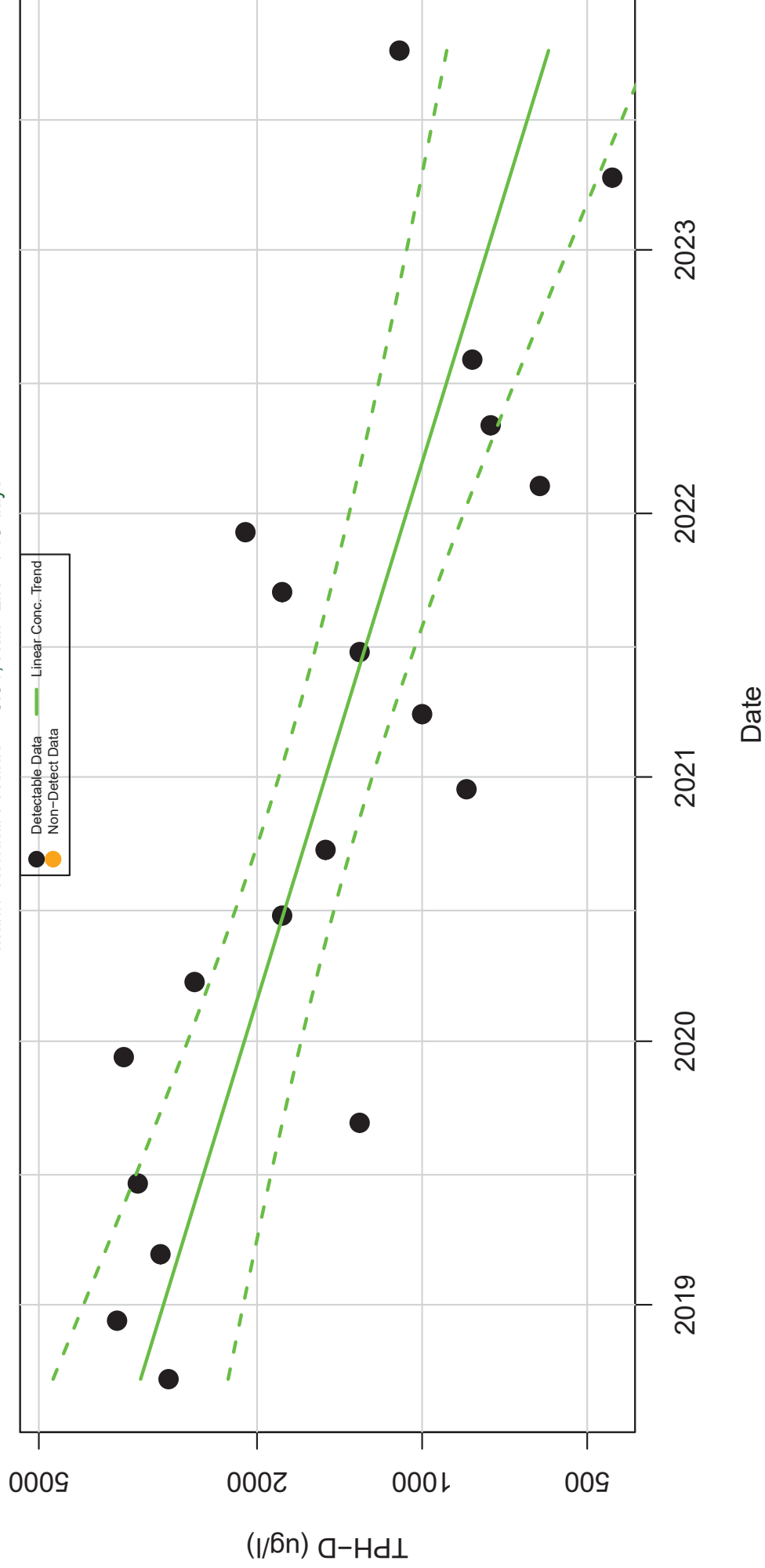
TPH-D in RW-5R : Aquifer-Blank

Mann-Kendall P.Value= 0.362; Half-Life= 1663 days



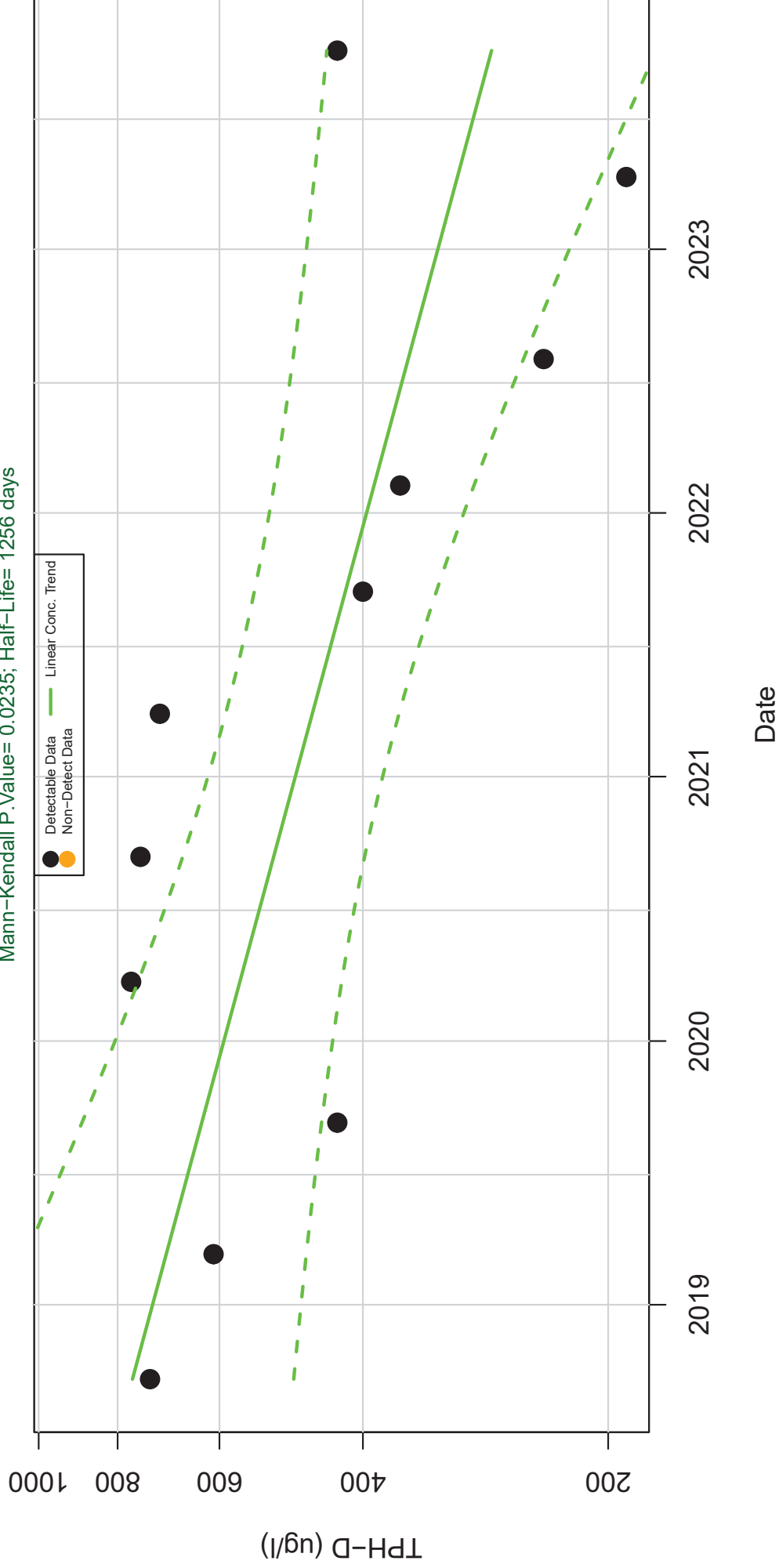
TPH-D in RW-8 : Aquifer-Blank

Mann-Kendall P.Value= <0.01; Half-Life= 745 days



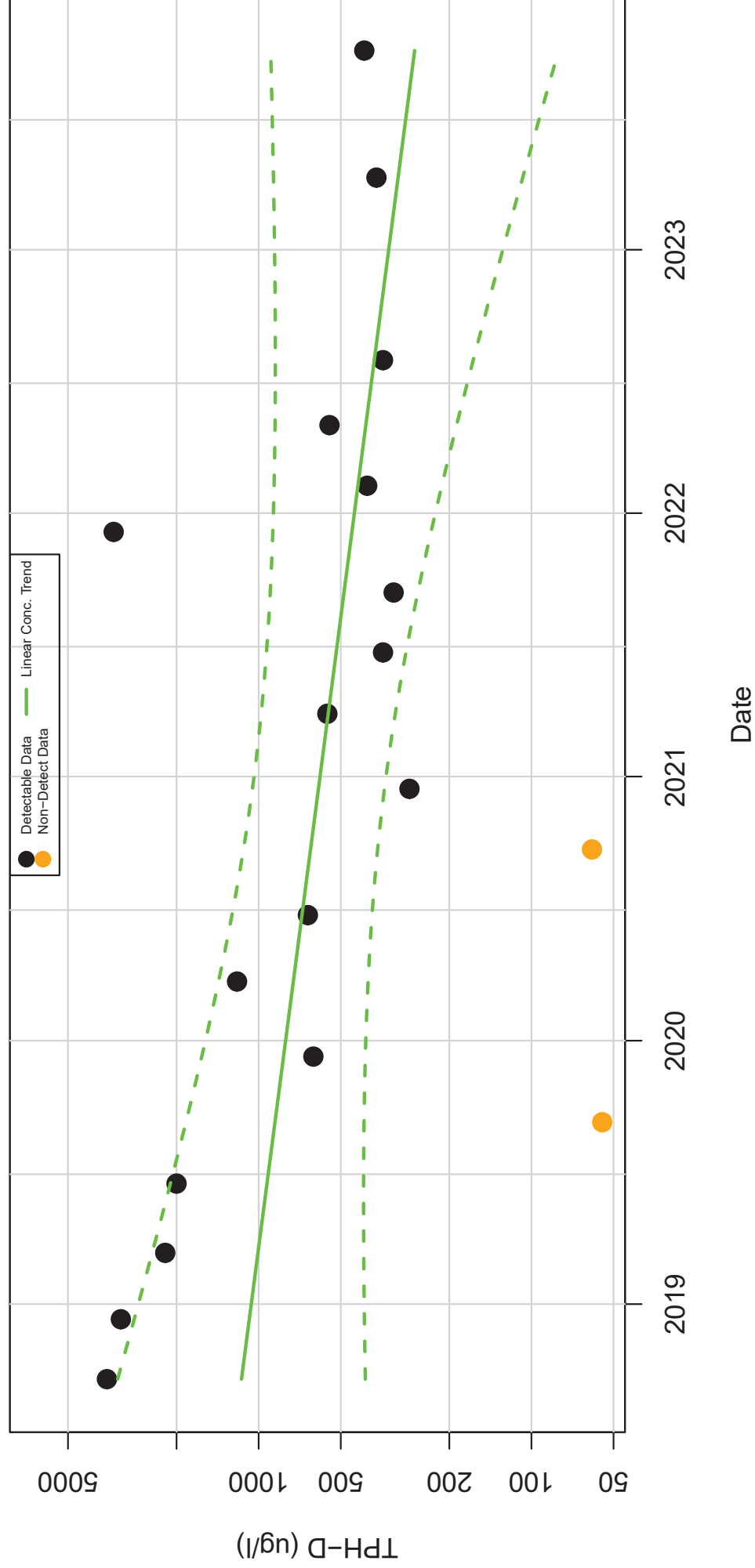
TPH-D in T-3 : Aquifer-Blank

Mann-Kendall P-Value= 0.0235; Half-Life= 1256 days



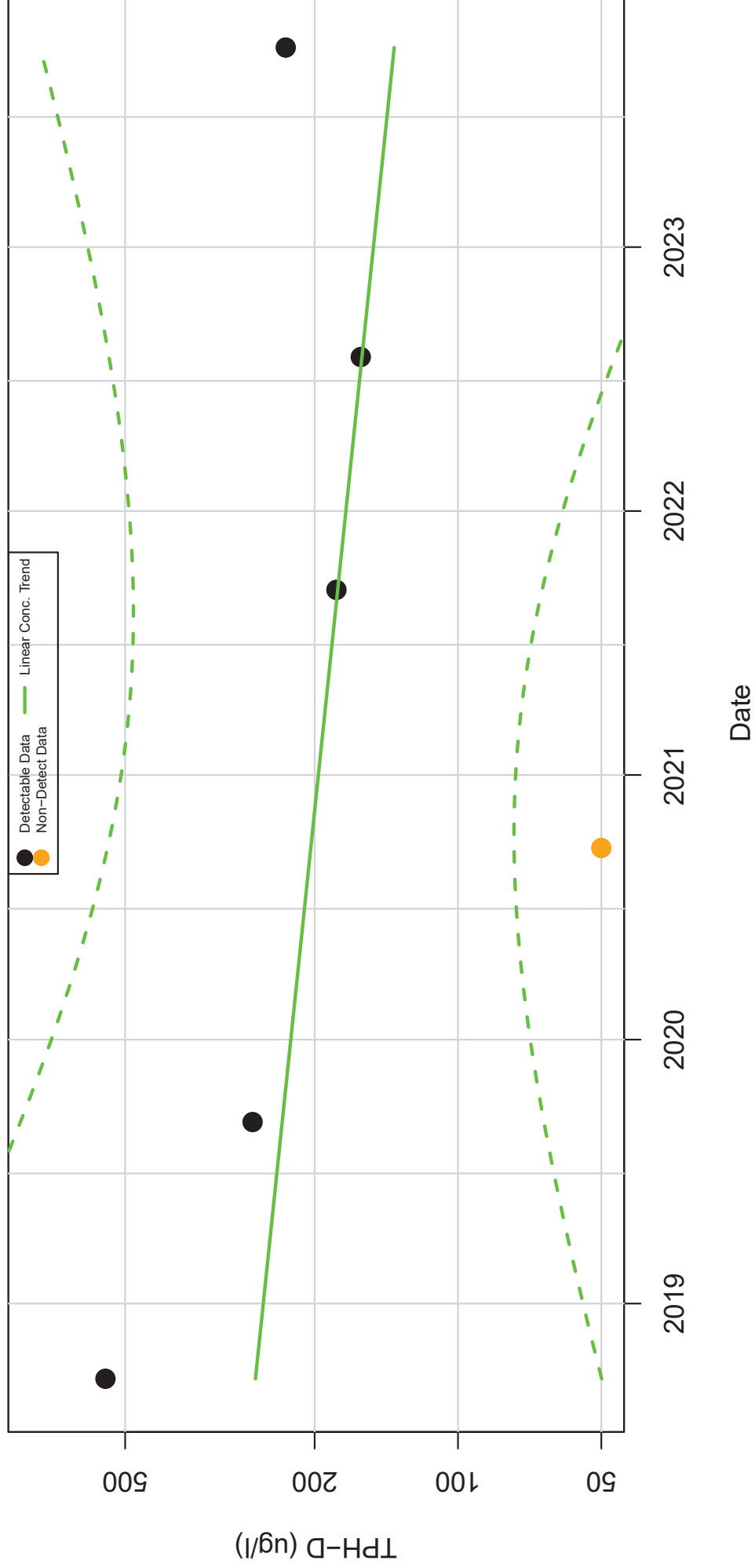
Mann-Kendall P. Value= 0.0635; Half-Life= 873 days

Mann-Kendall P. Value= 0.0635; Half-Life= 873 days



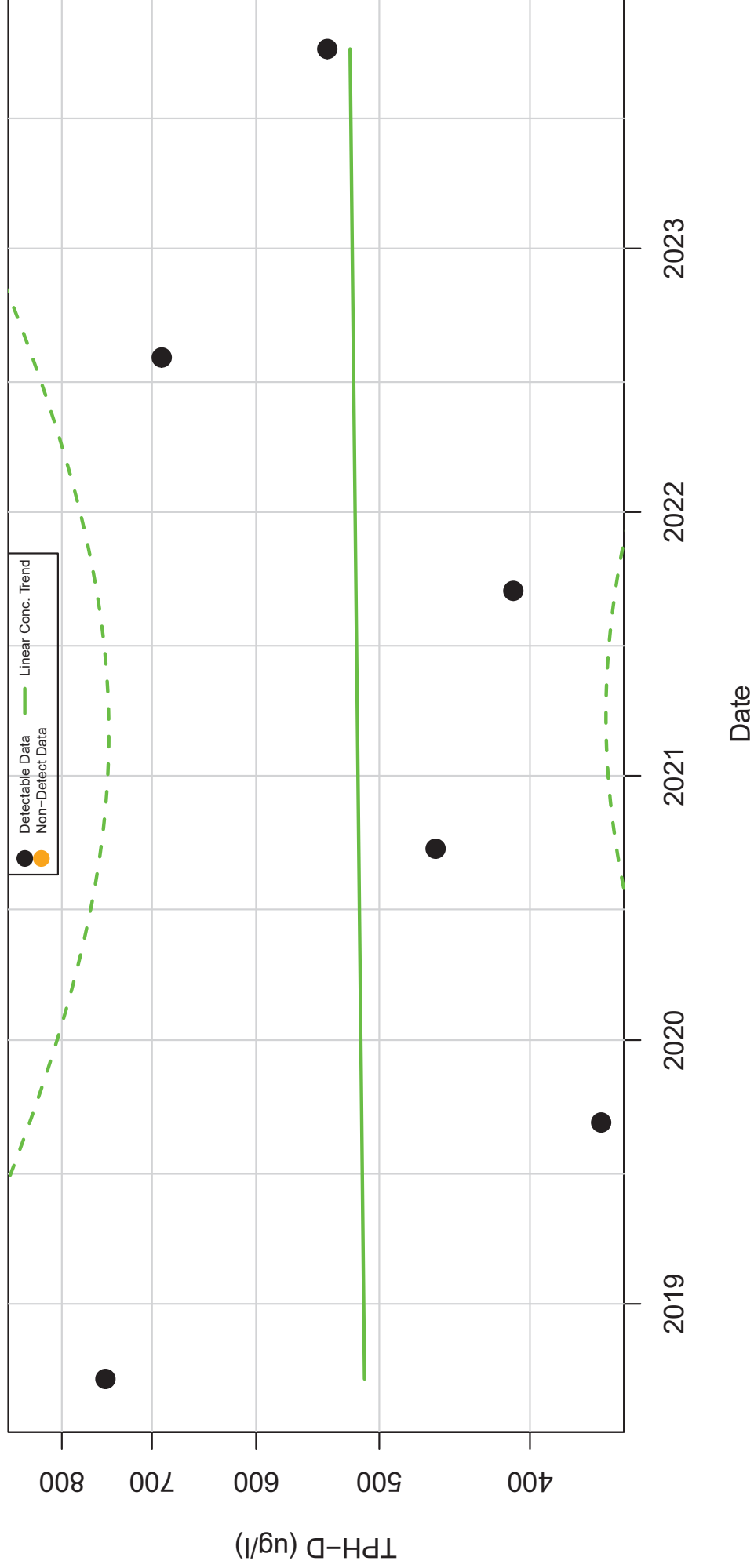
TPH-D in FW-3 : Aquifer-Blank

Mann-Kendall P.Value= 0.452; Half-Life> 5 Years



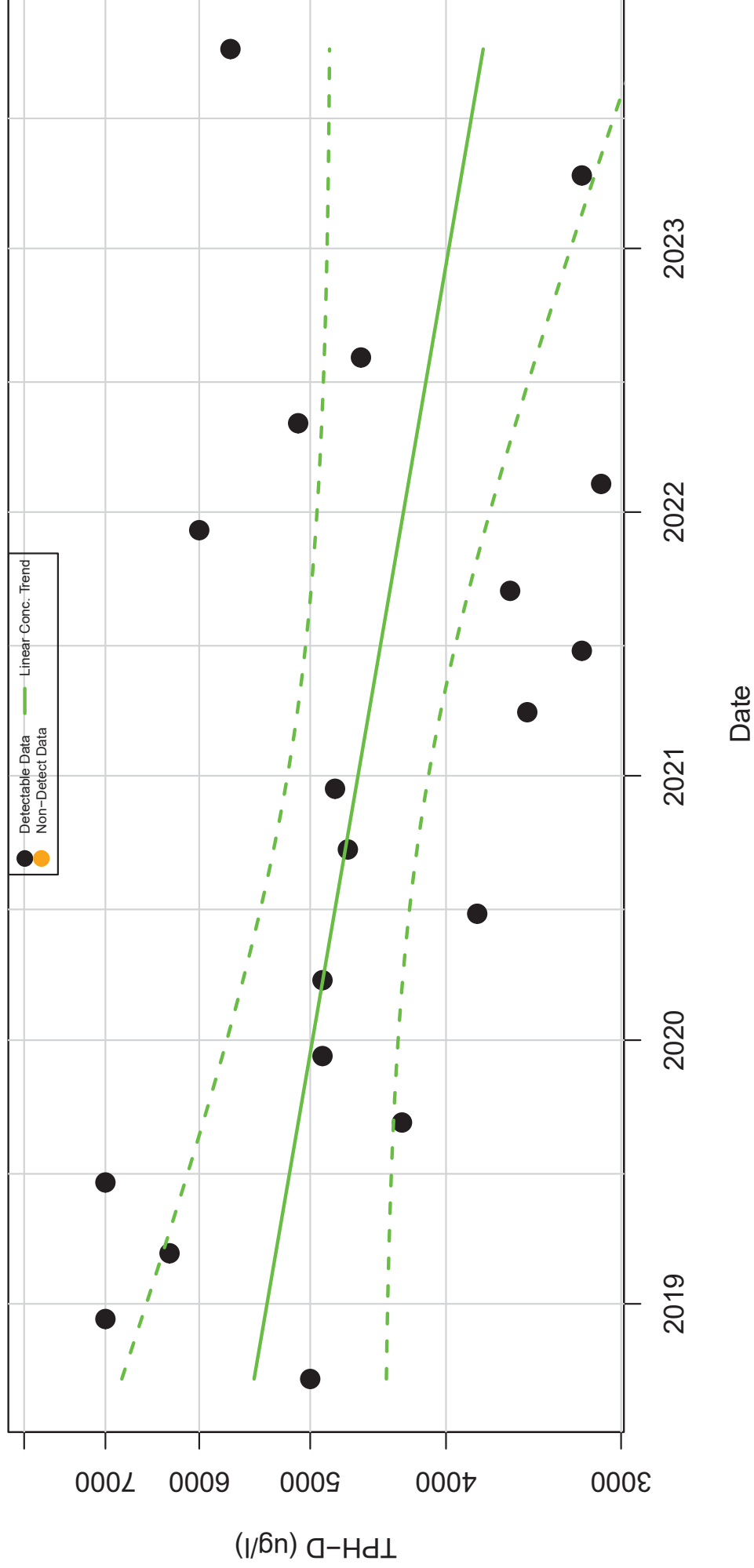
TPH-D in FW-4 : Aquifer-Blank

Mann-Kendall P.Value= 1; Half-Life> -5 Years



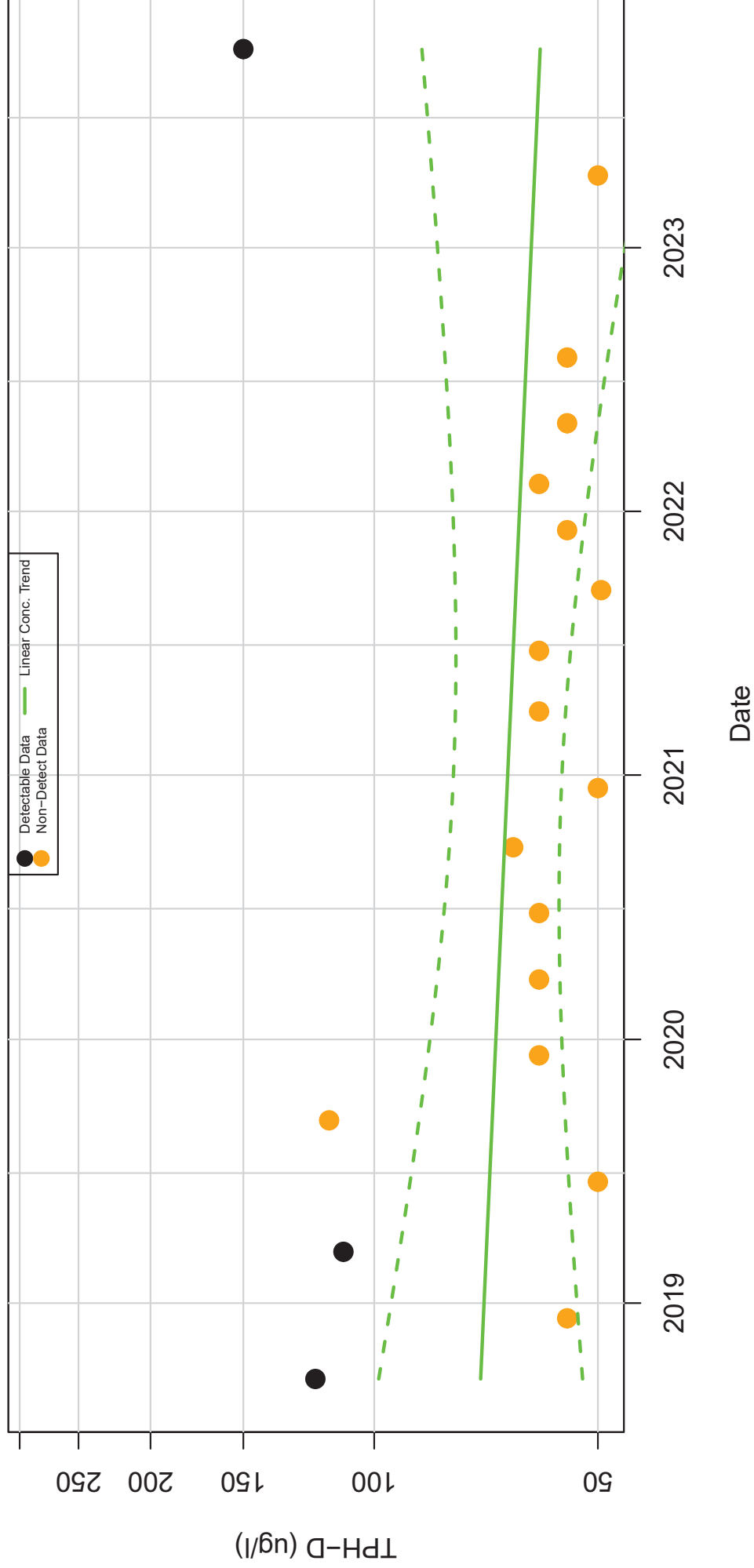
TPH-D in FW-5R : Aquifer-Blank

Mann-Kendall P.Value= 0.0457; Half-Life> 5 Years



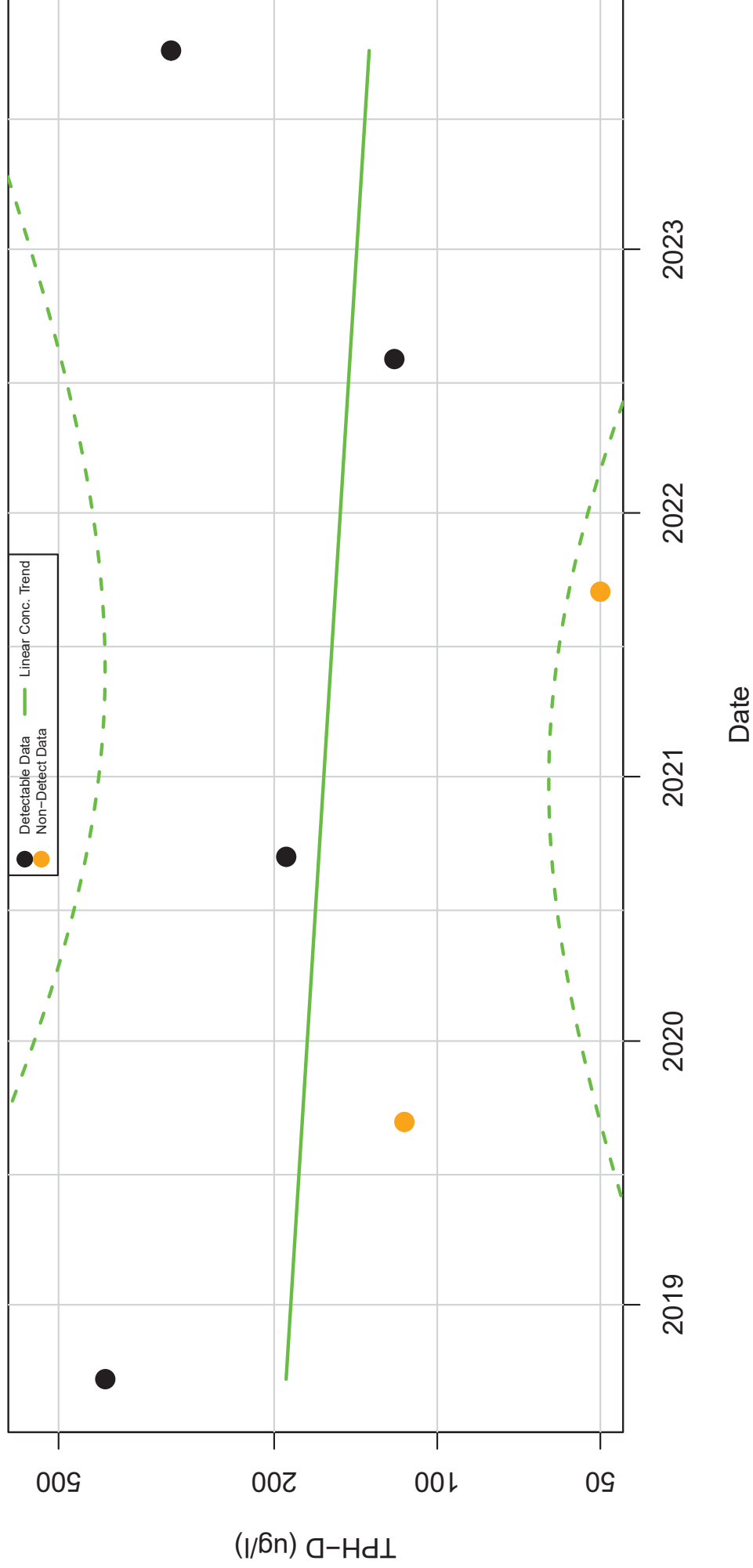
TPH-D in FW-14 : Aquifer-Blank

Mann-Kendall P.Value= 0.173; Half-Life> 5 Years



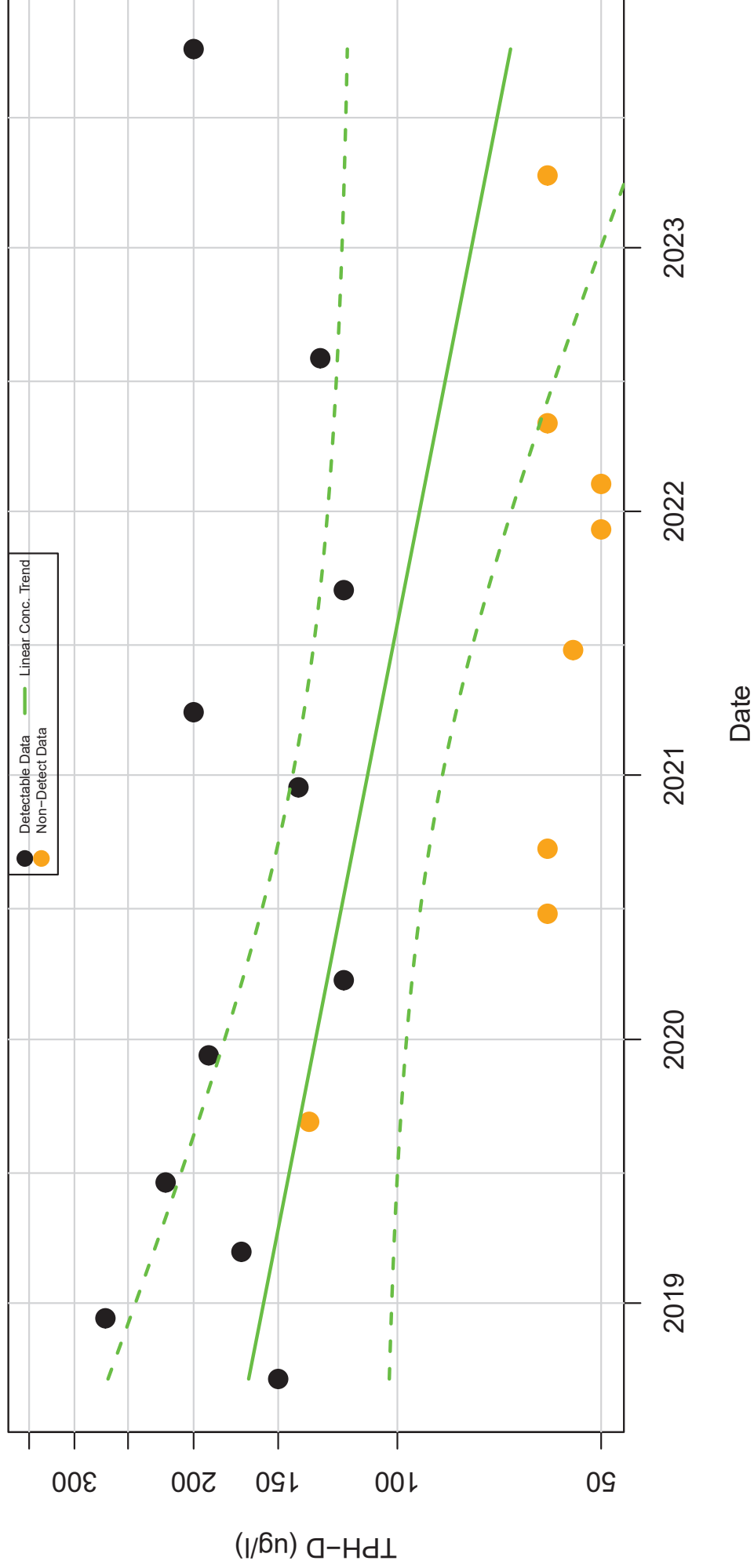
TPH-D in FW-15 : Aquifer-Blank

Mann-Kendall P.Value= 1; Half-Life> 5 Years



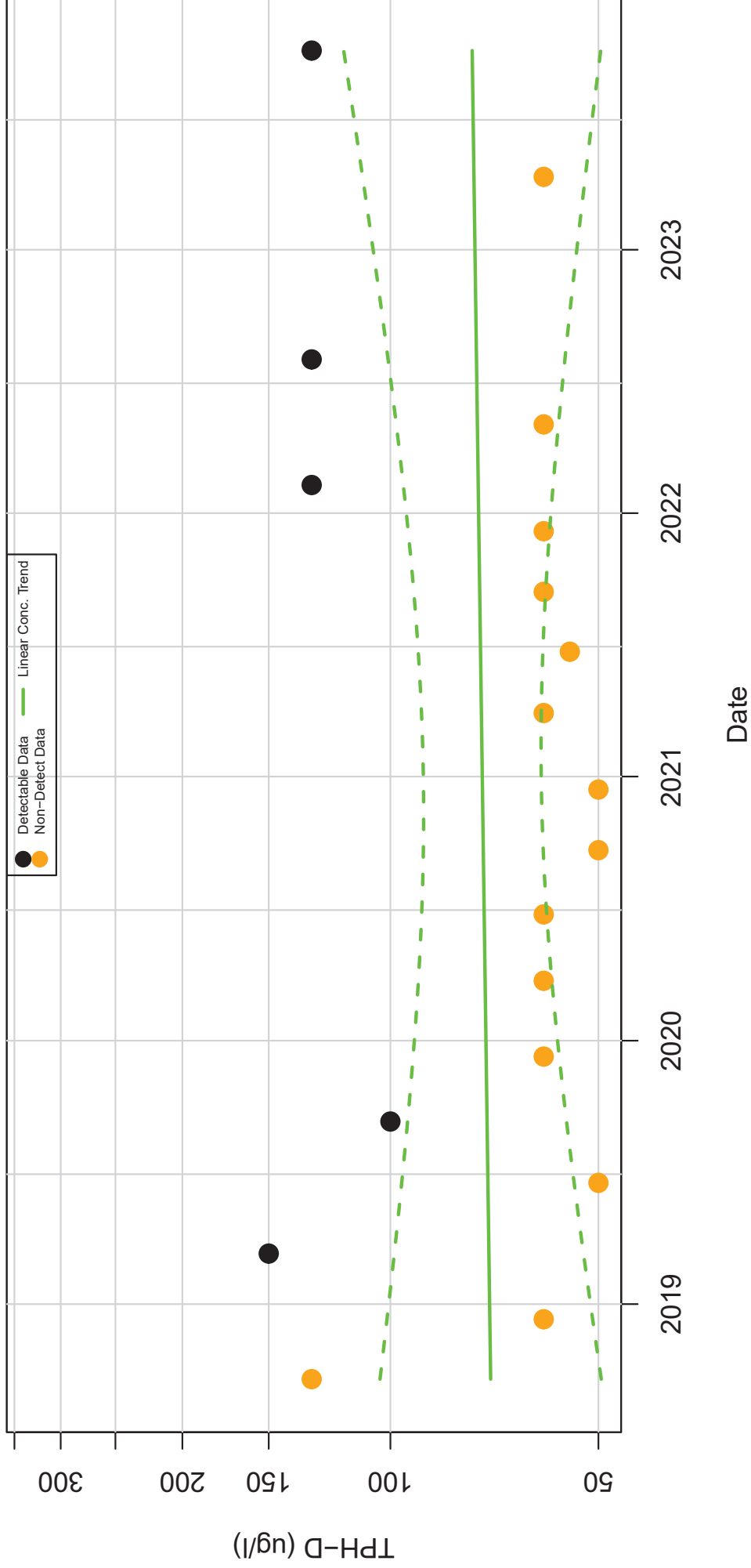
TPH-D in RR-1 : Aquifer-Blank

Mann-Kendall P.Value= 0.0376; Half-Life= 1432 days

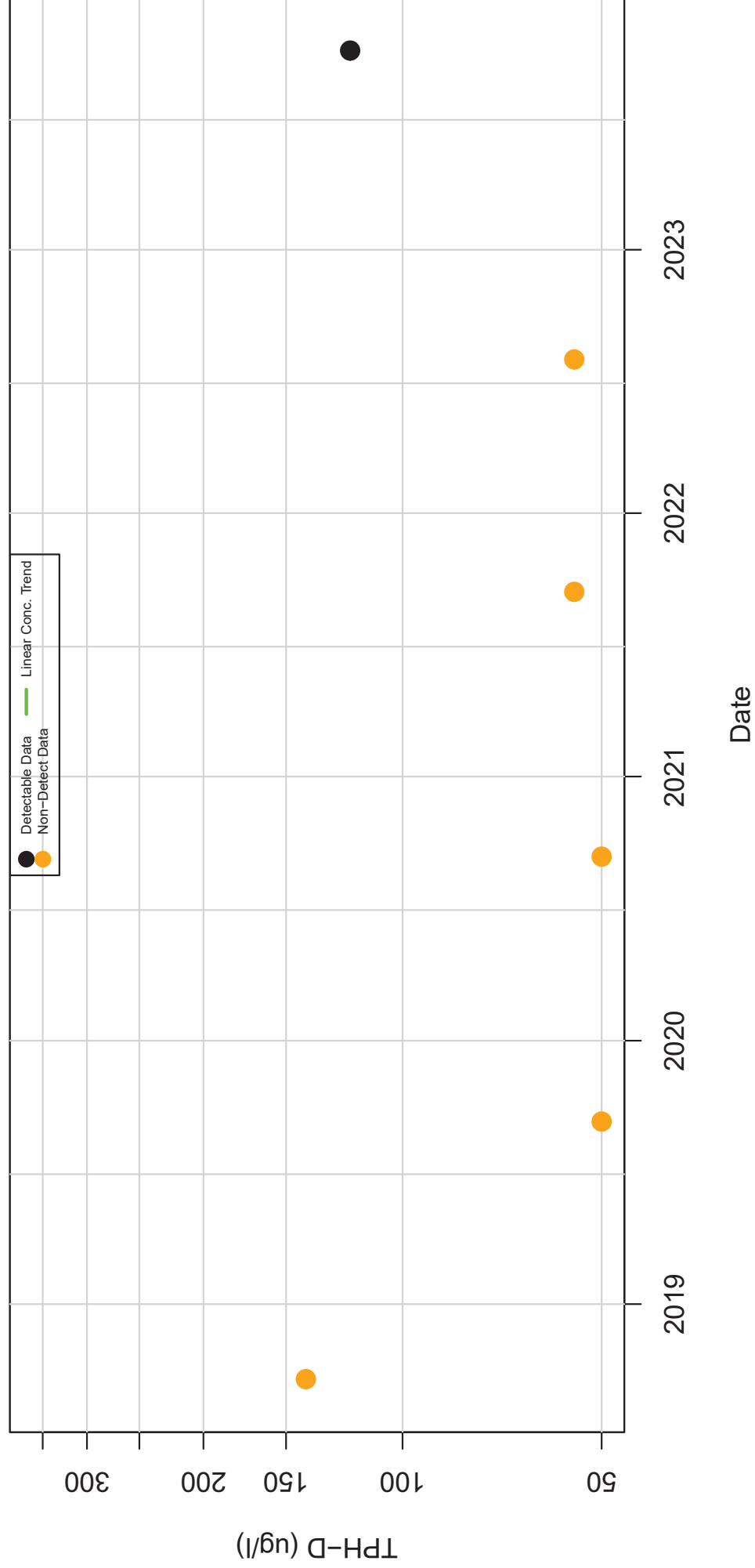


TPH-D in RR-2 : Aquifer-Blank

Mann-Kendall P.Value= 0.736; Half-Life> -5 Years

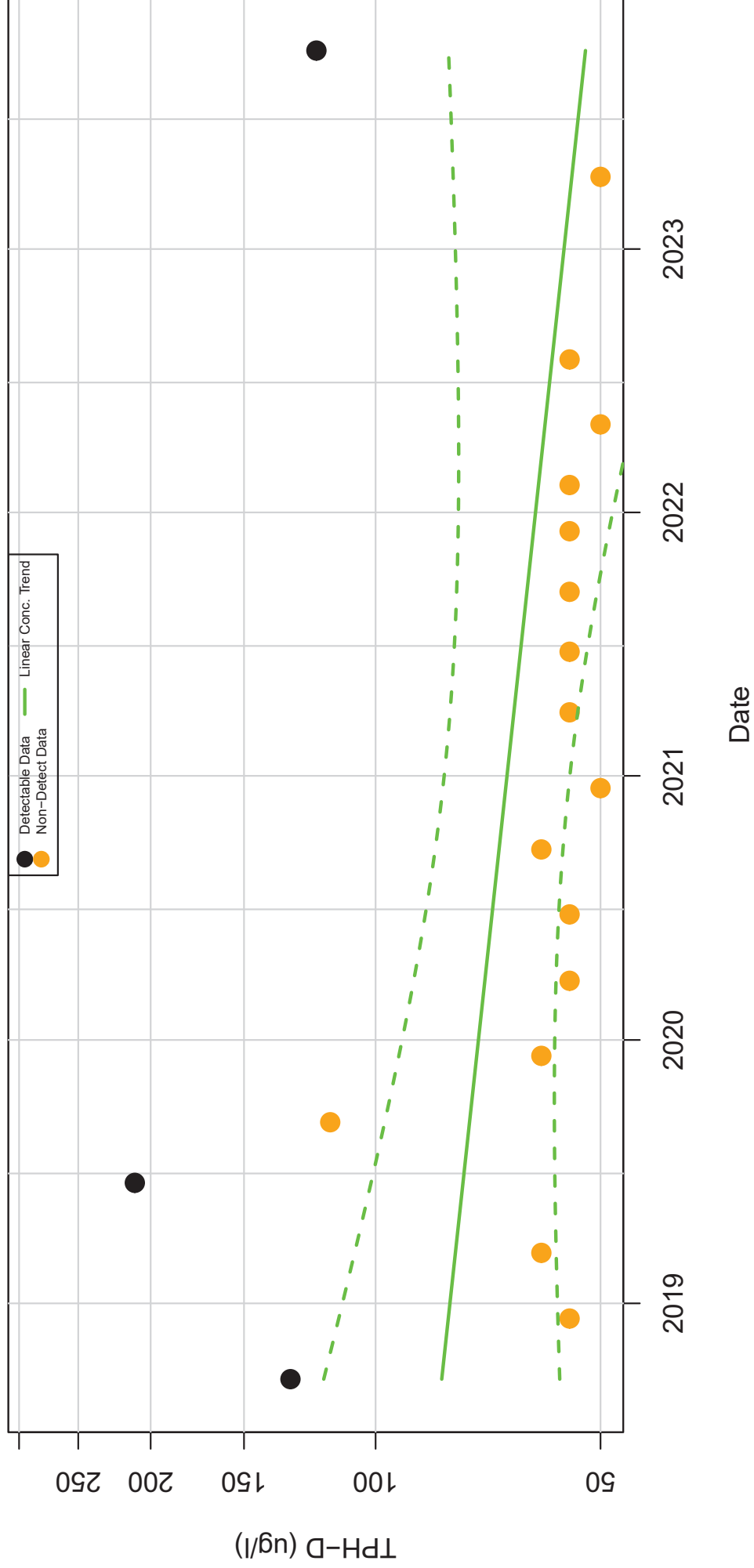


TPH-D in RR-3 : Aquifer-Blank



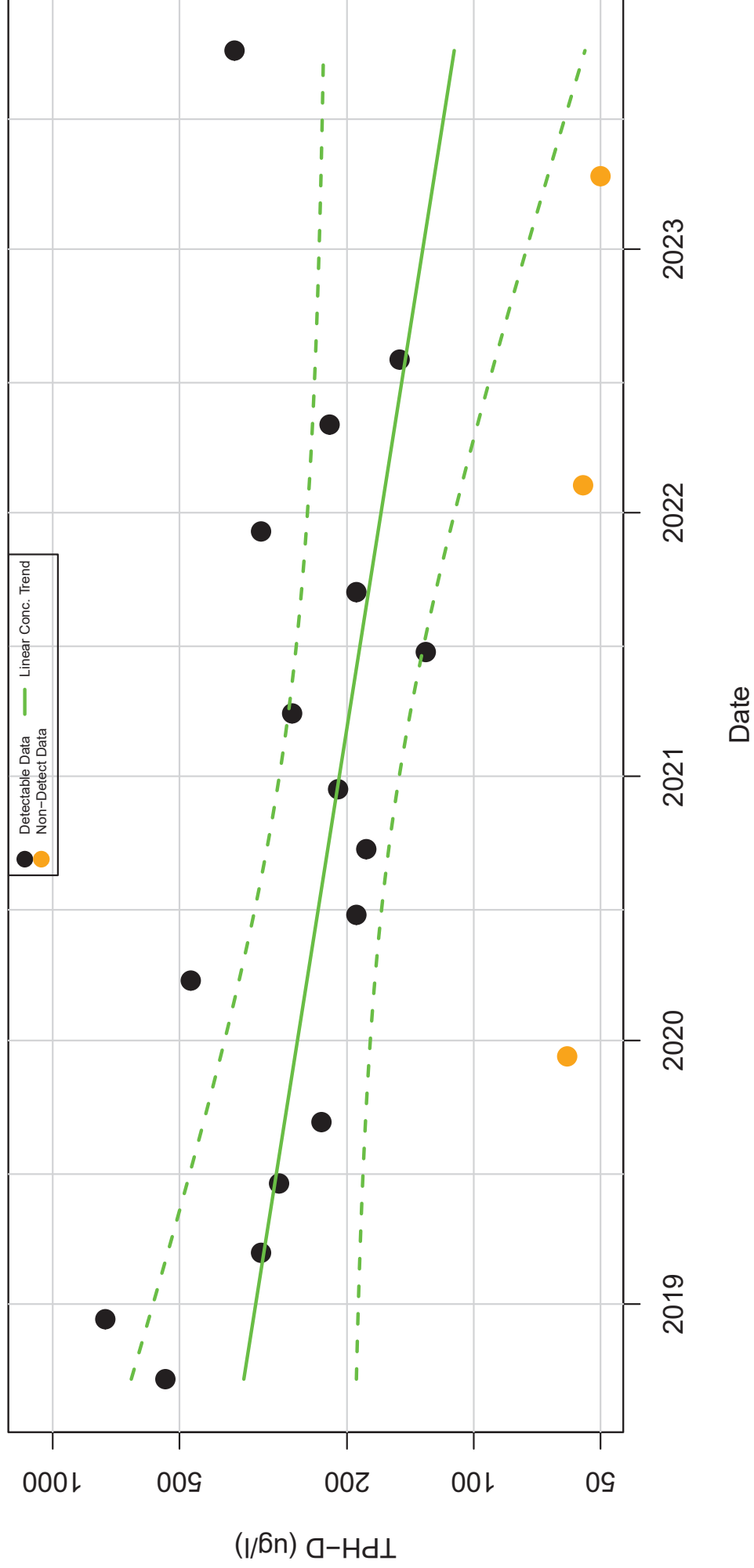
TPH-D in RR-4 : Aquifer-Blank

Mann-Kendall P.Value= 0.0206; Half-Life> 5 Years



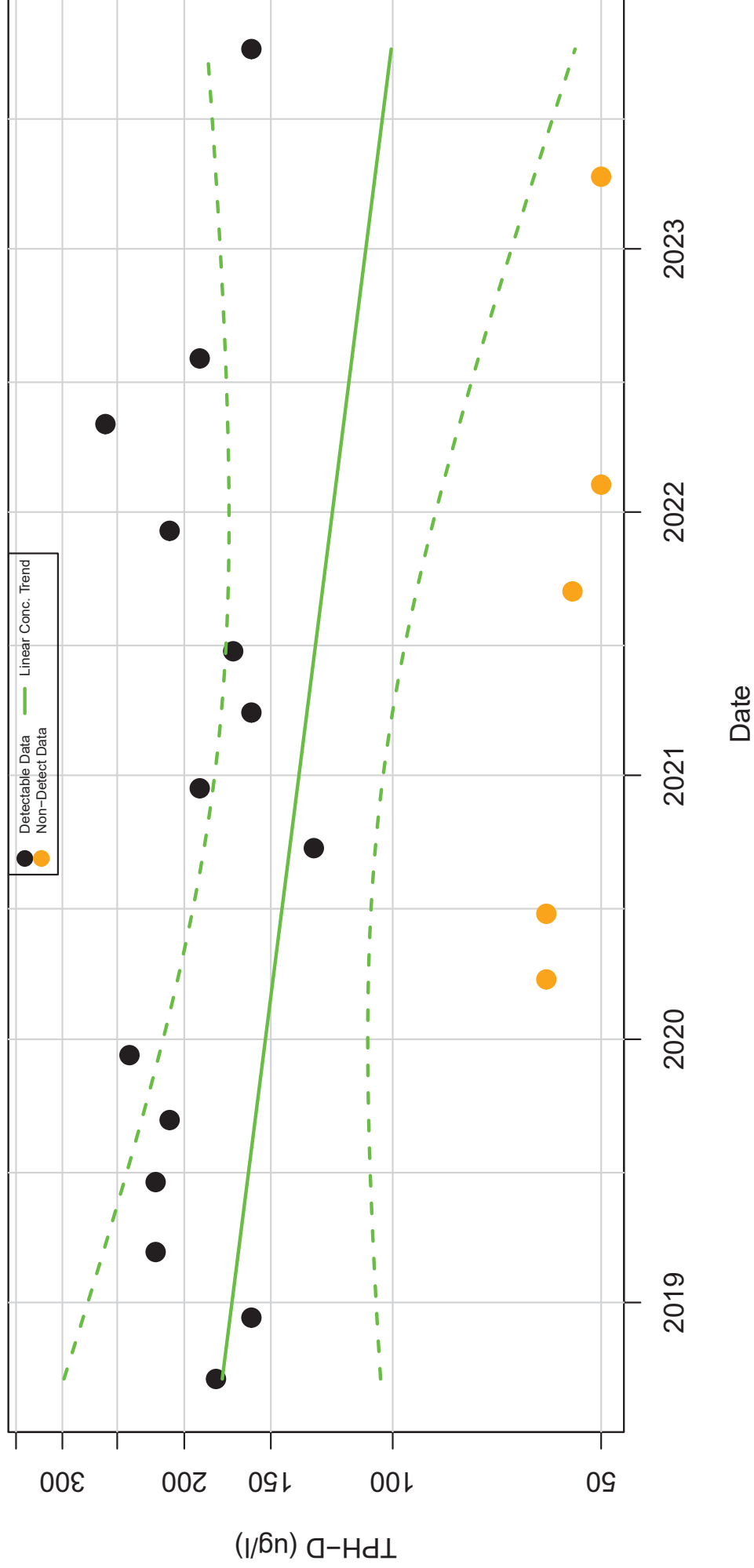
TPH-D in RR-5 : Aquifer-Blank

Mann-Kendall P-Value= 0.0299; Half-Life= 1108 days



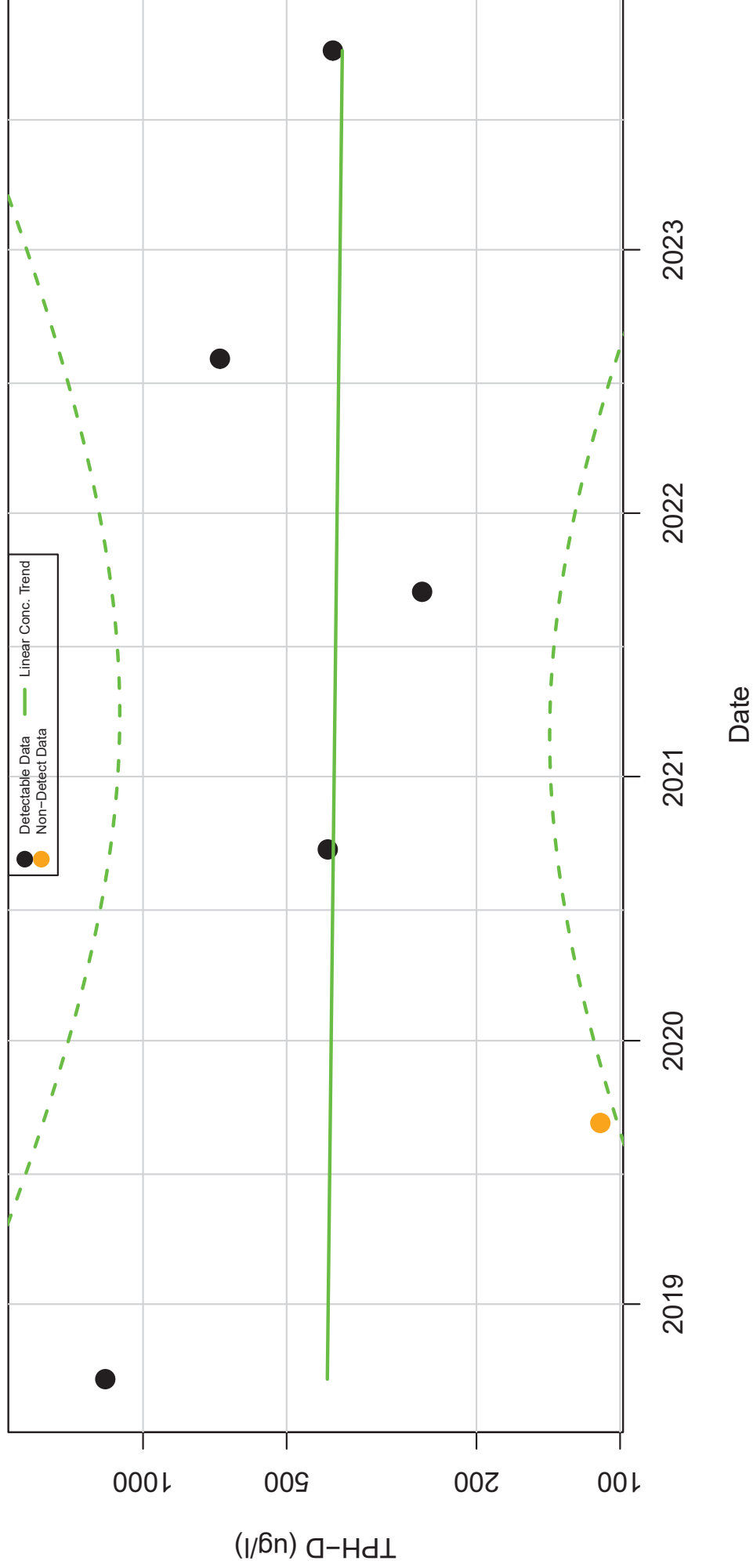
TPH-D in T-2 : Aquifer-Blank

Mann-Kendall P-Value= 0.26; Half-Life> 5 Years

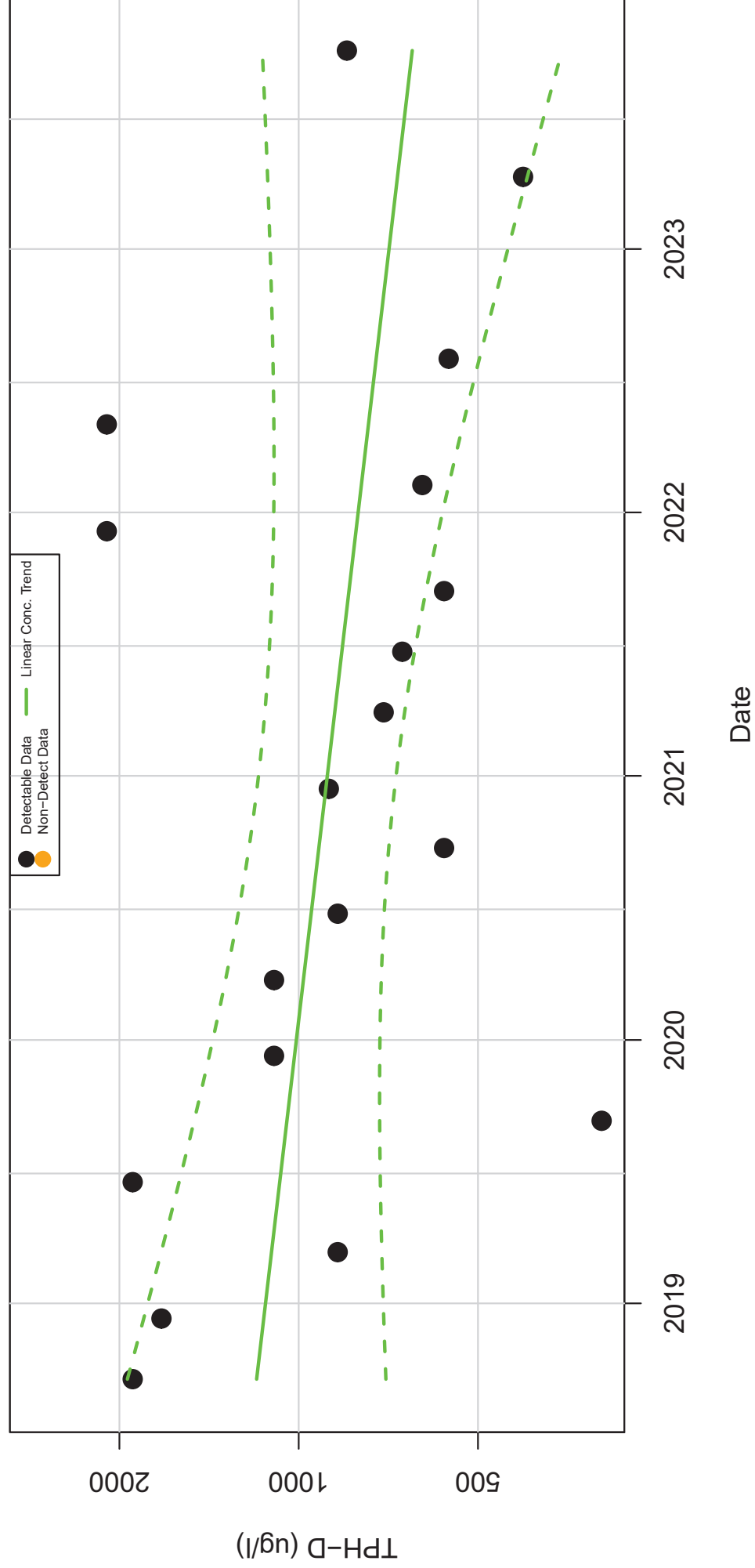


TPH-D in DMW-1 : Aquifer-Blank

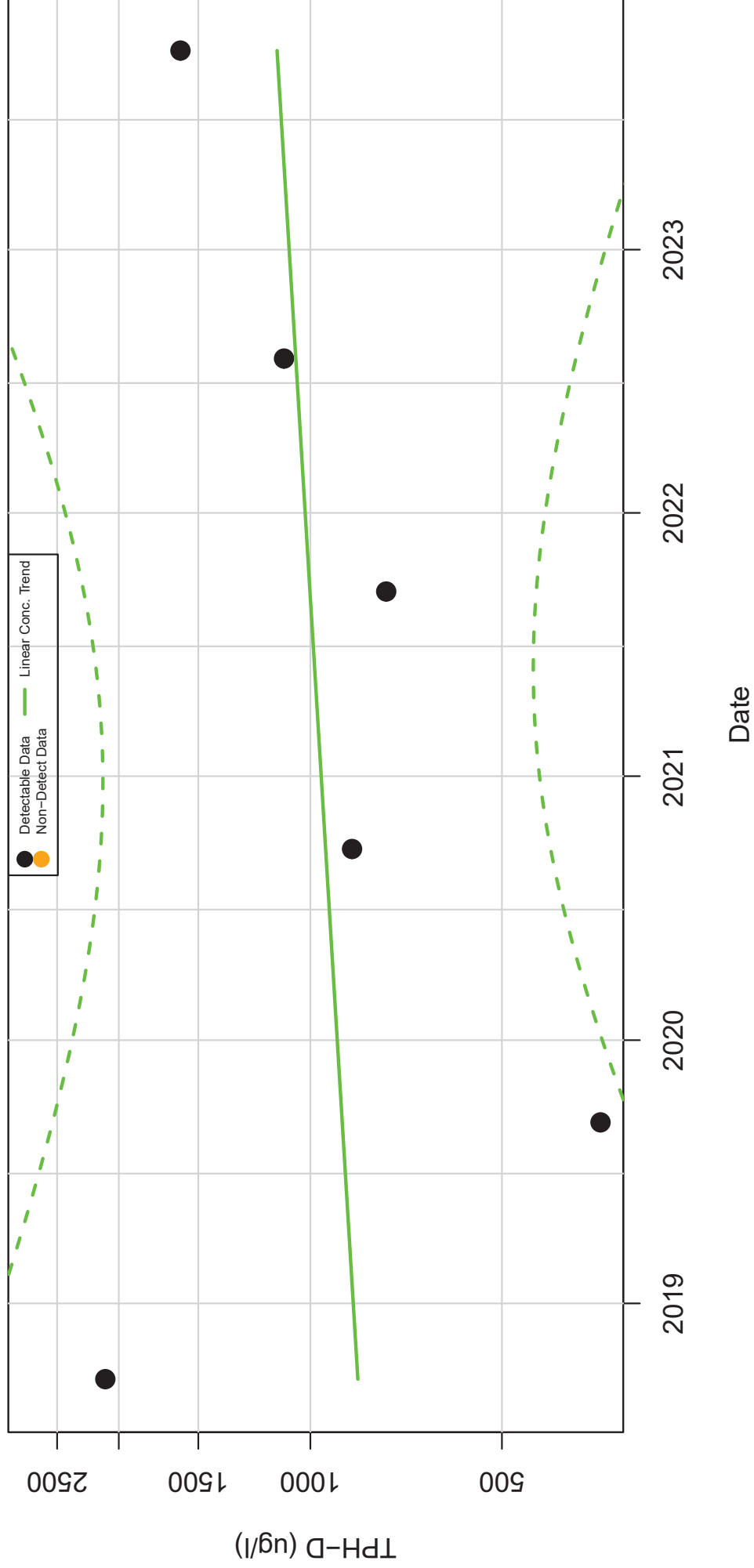
Mann-Kendall P.Value= 1; Half-Life> 5 Years



TPH-D in DMW-2 : Aquifer-Blank
Mann-Kendall P-Value= 0.0735; Half-Life> 5 Years

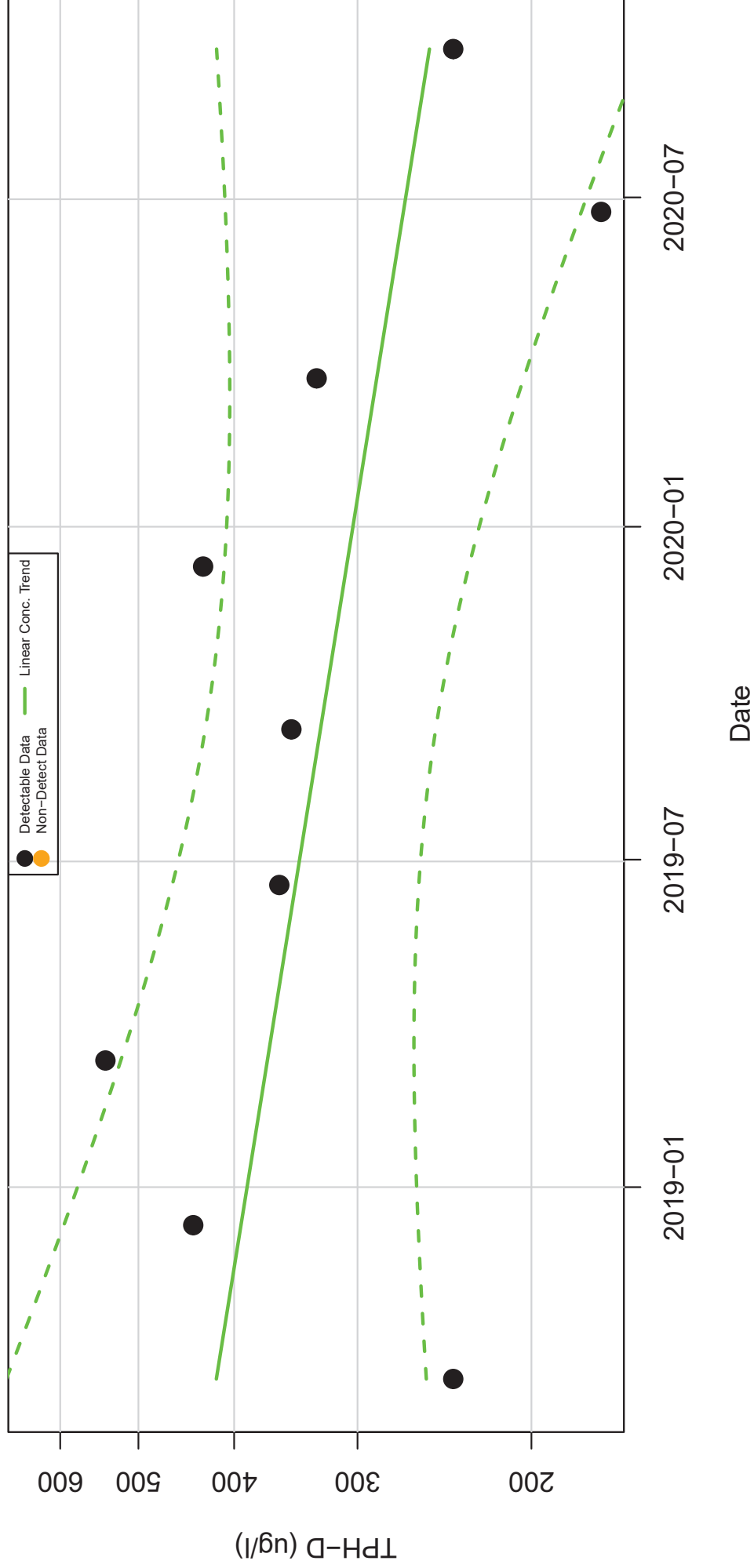


TPH-D in DMW-3 : Aquifer-Blank
Mann-Kendall P-Value= 0.707; Half-Life> -5 Years

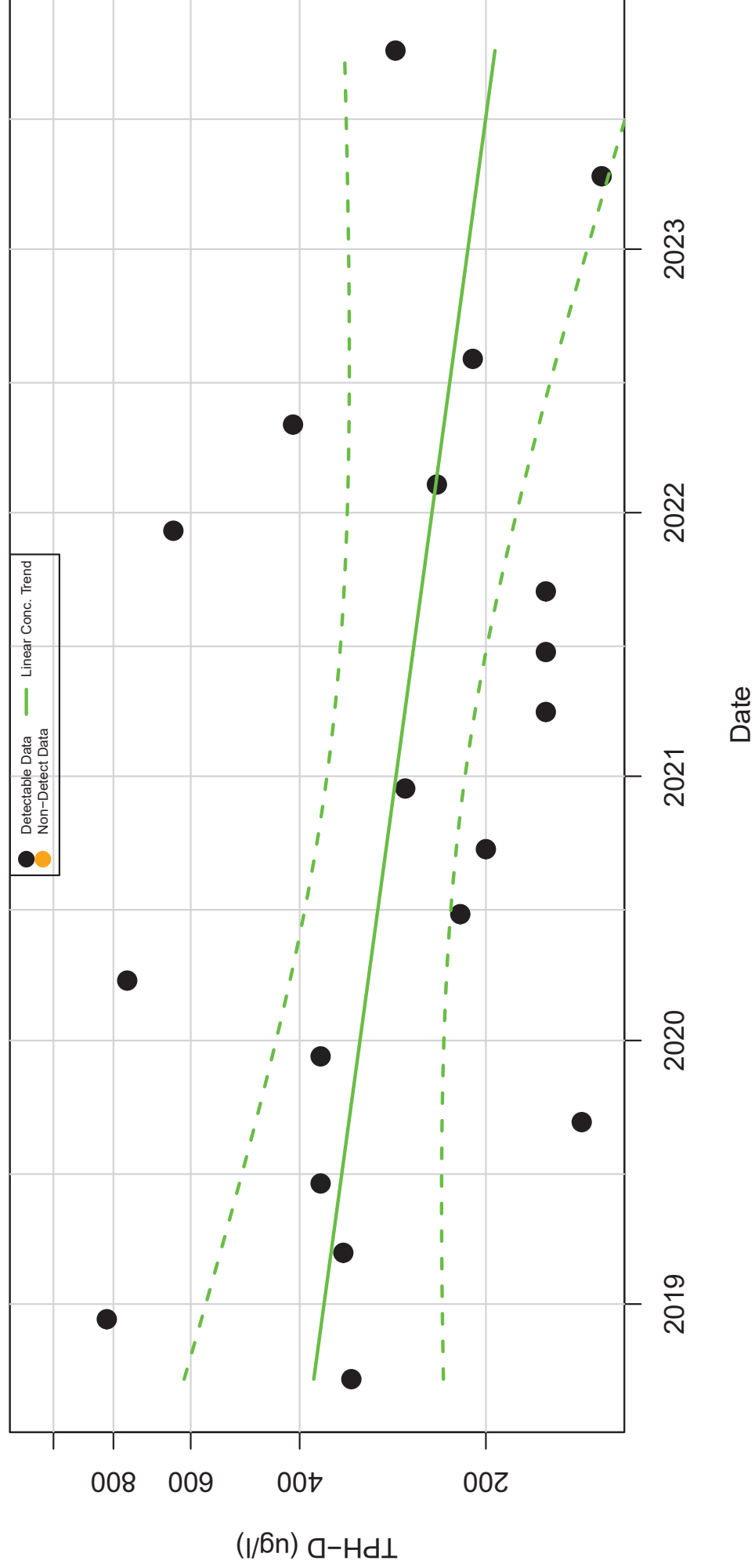


TPH-D in DMW-4 : Aquifer-Blank

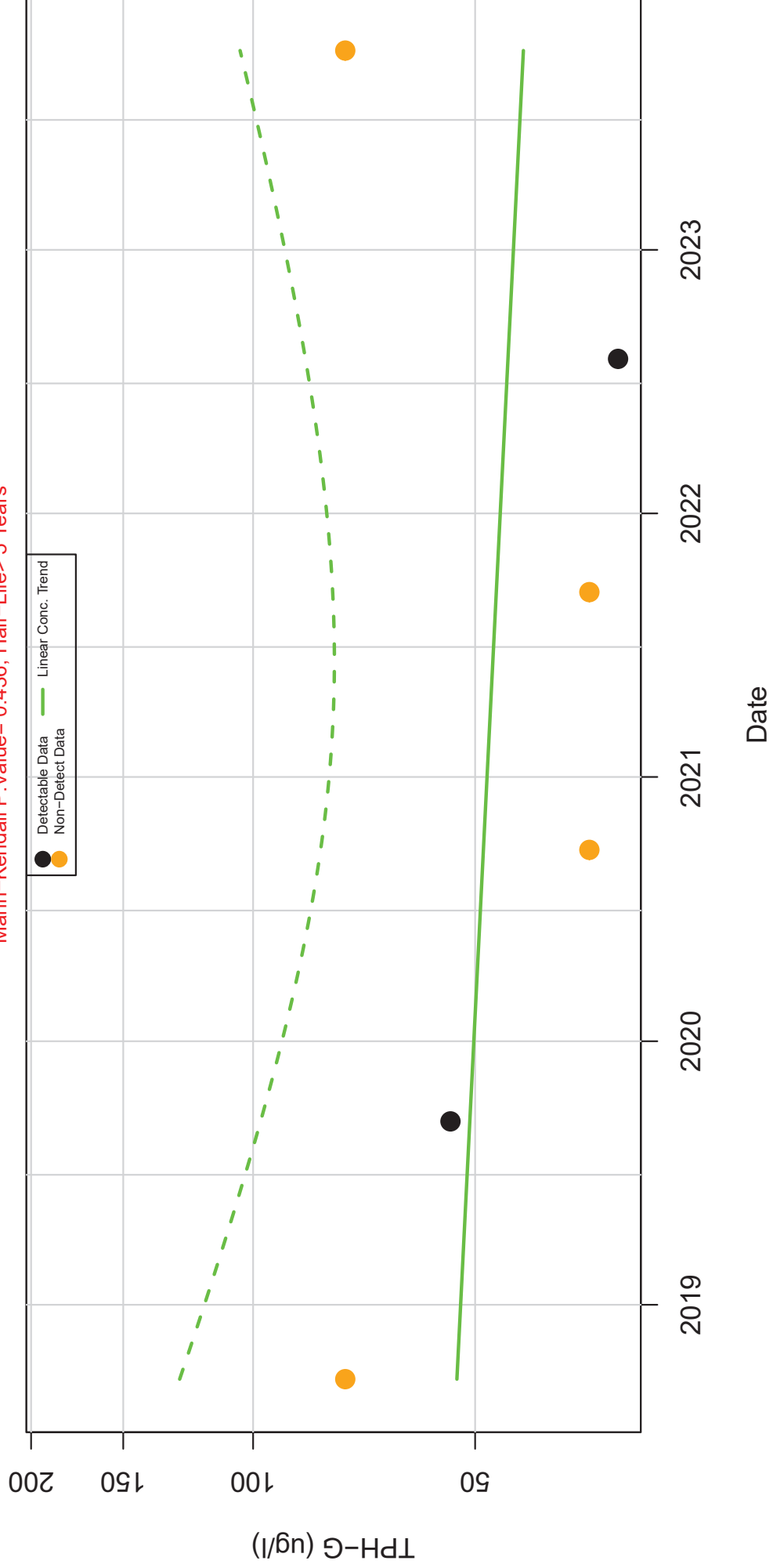
Mann-Kendall P.Value= 0.142; Half-Life= 1025 days



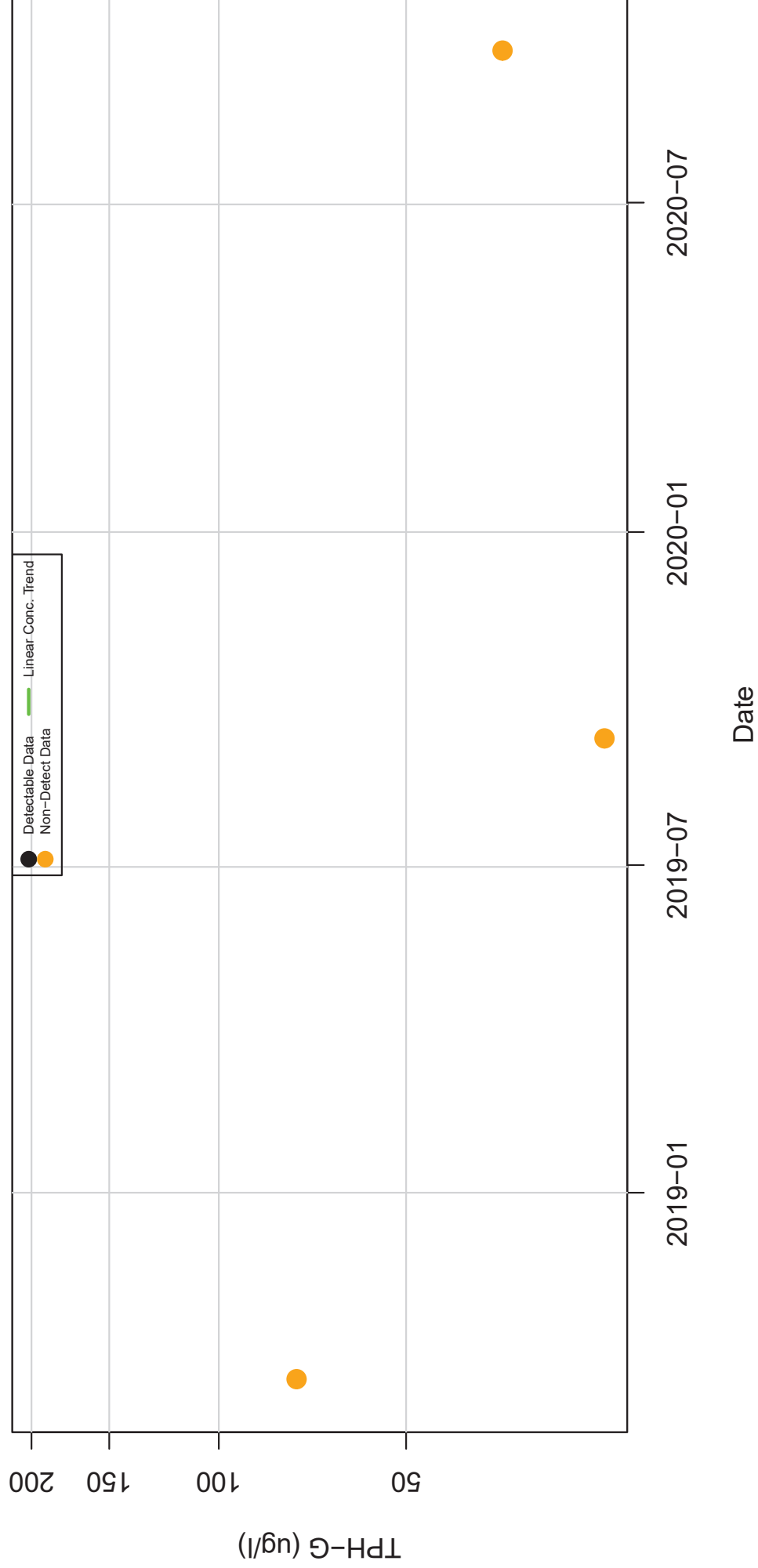
TPH-D in FW-13 : Aquifer-Blank
Mann-Kendall P.Value= 0.182; Half-Life> 5 Years



TPH-G in B-17B : Aquifer-Blank
Mann-Kendall P.Value= 0.436; Half-Life> 5 Years

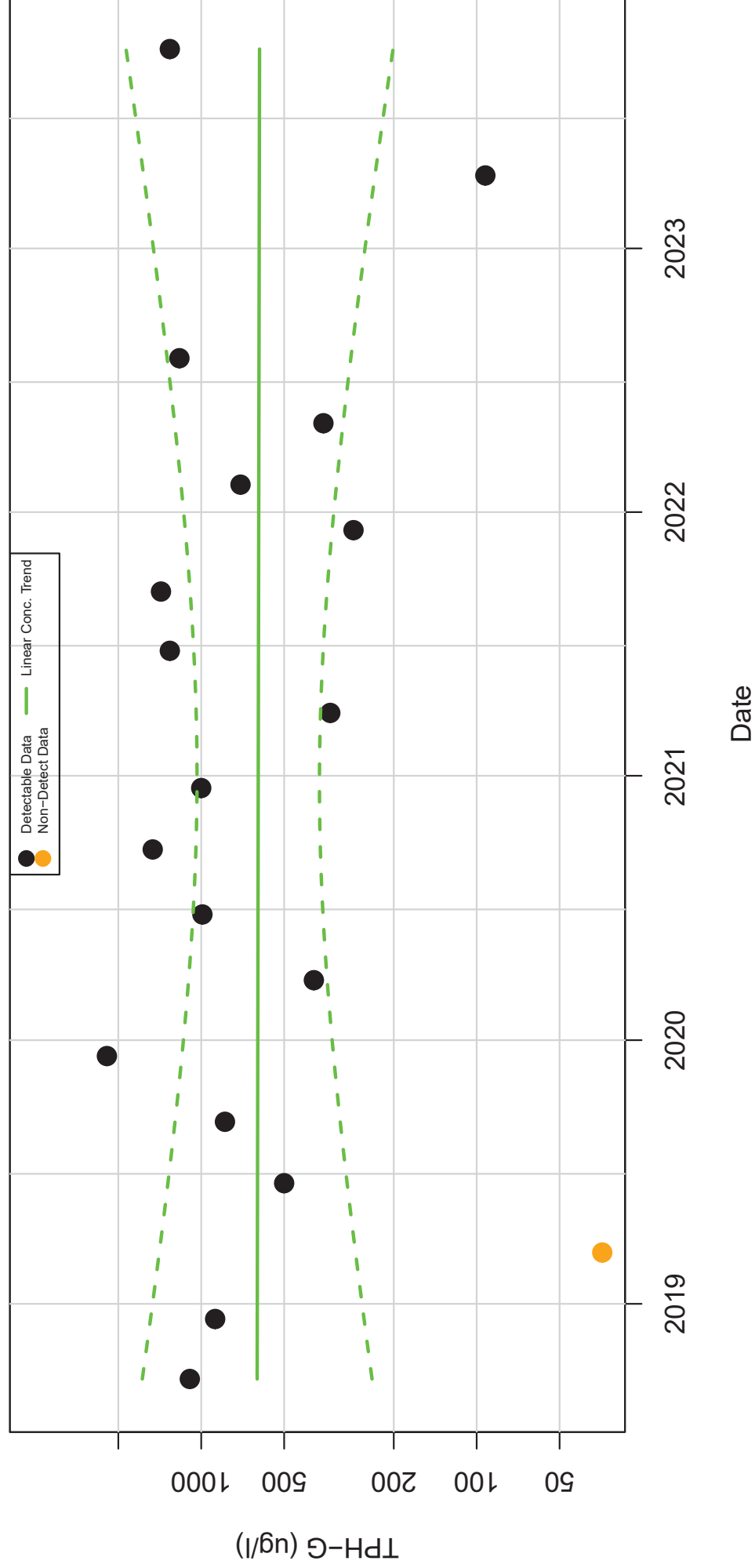


TPH-G in B-30 : Aquifer-Blank



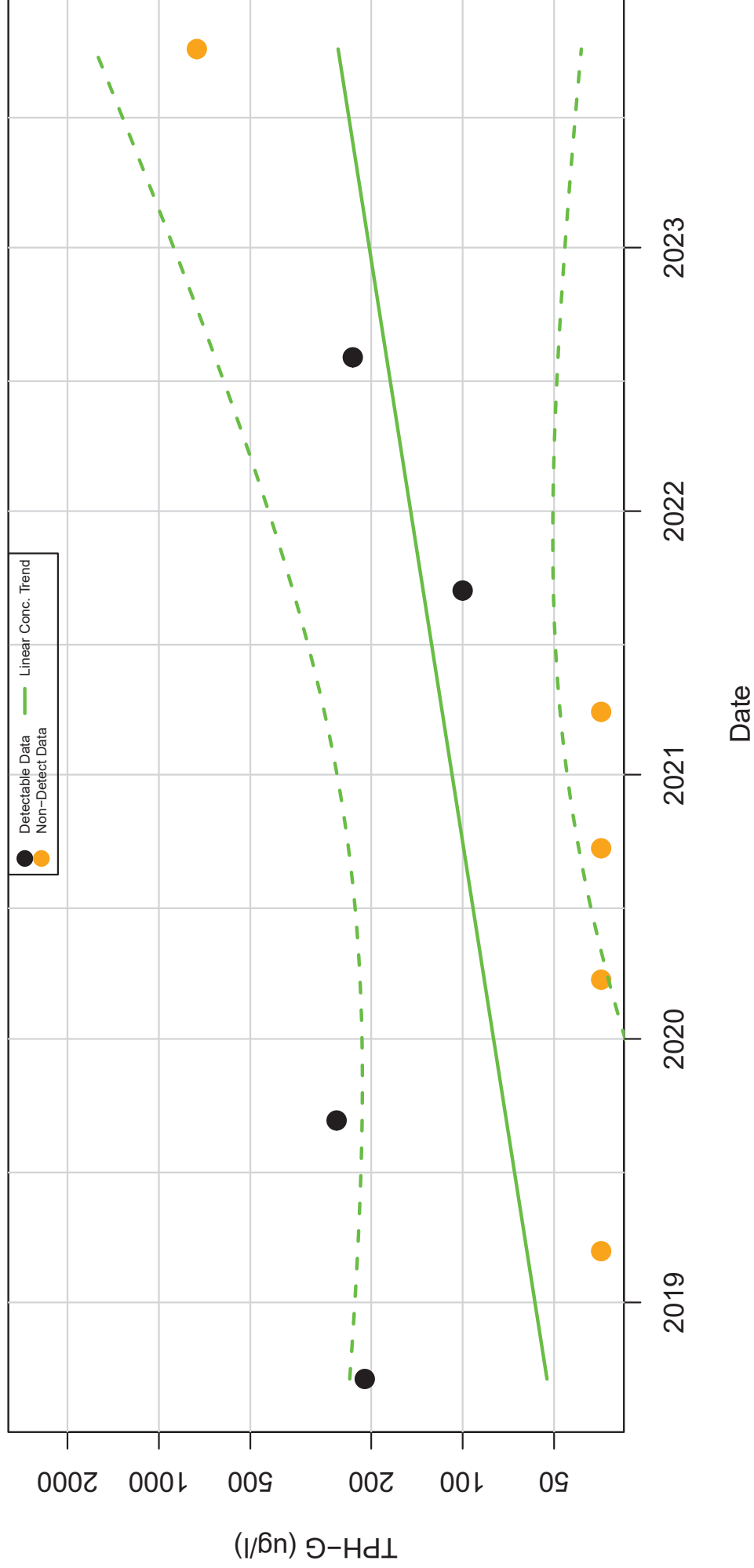
TPH-G in B-31 : Aquifer-Blank
Mann-Kendall P.Value= 0.916; Half-Life> 5 Years

Mann-Kendall P.Value= 0.916; Half-Life> 5 Years



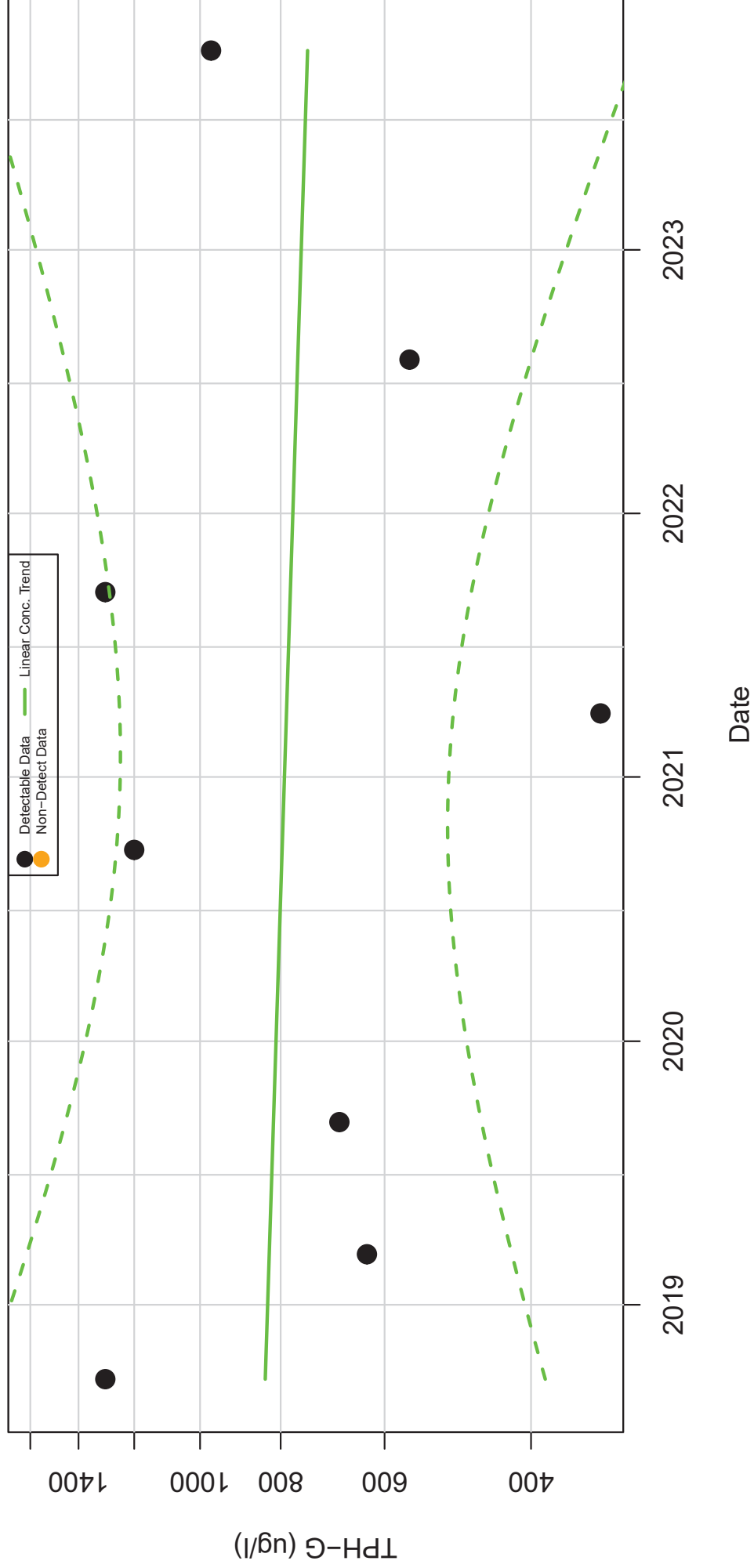
TPH-G in E-21 : Aquifer-Blank

Mann-Kendall P.Value= 0.324; Half-Life= -807 days



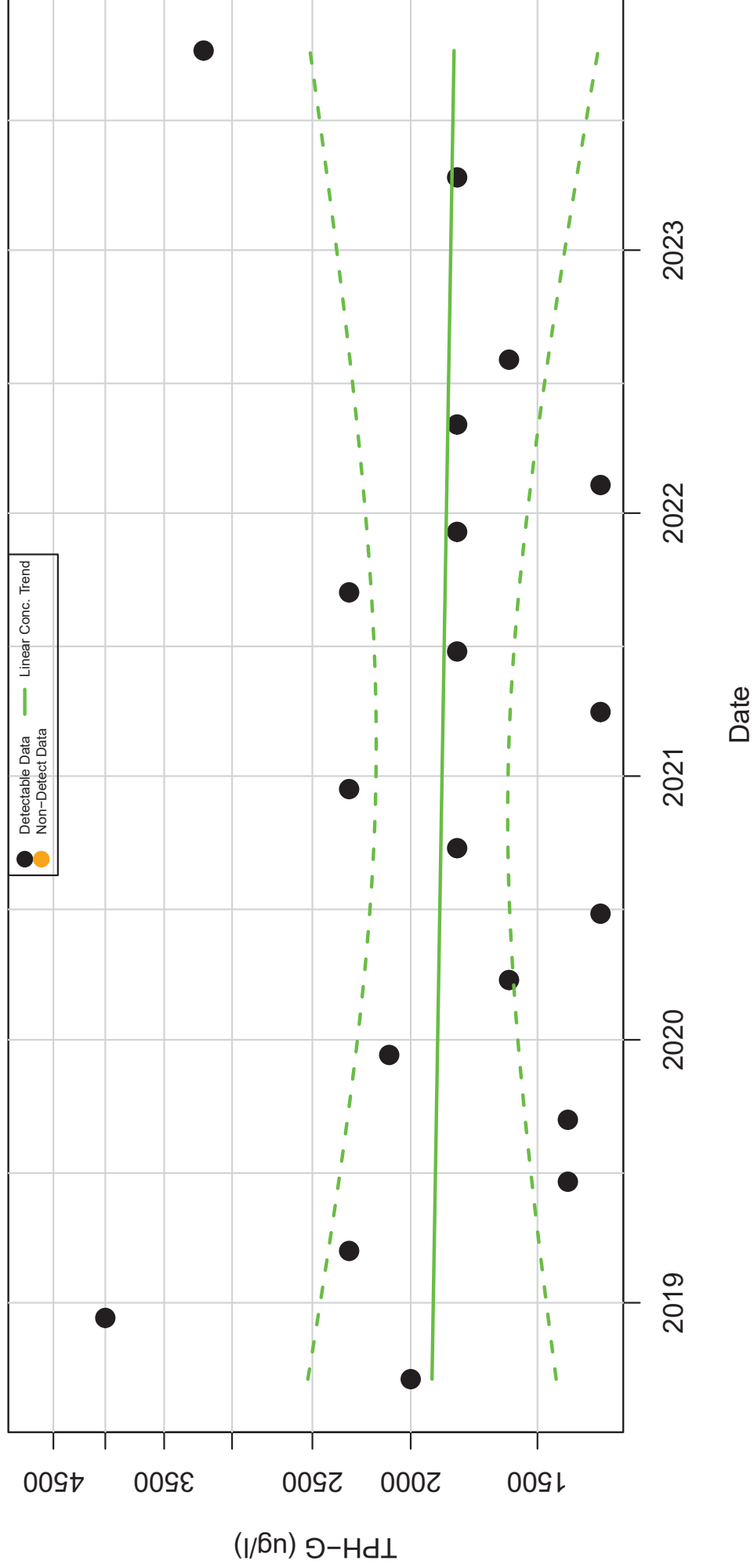
TPH-G in B-19 : Aquifer-Blank

Mann-Kendall P.Value= 0.803; Half-Life> 5 Years



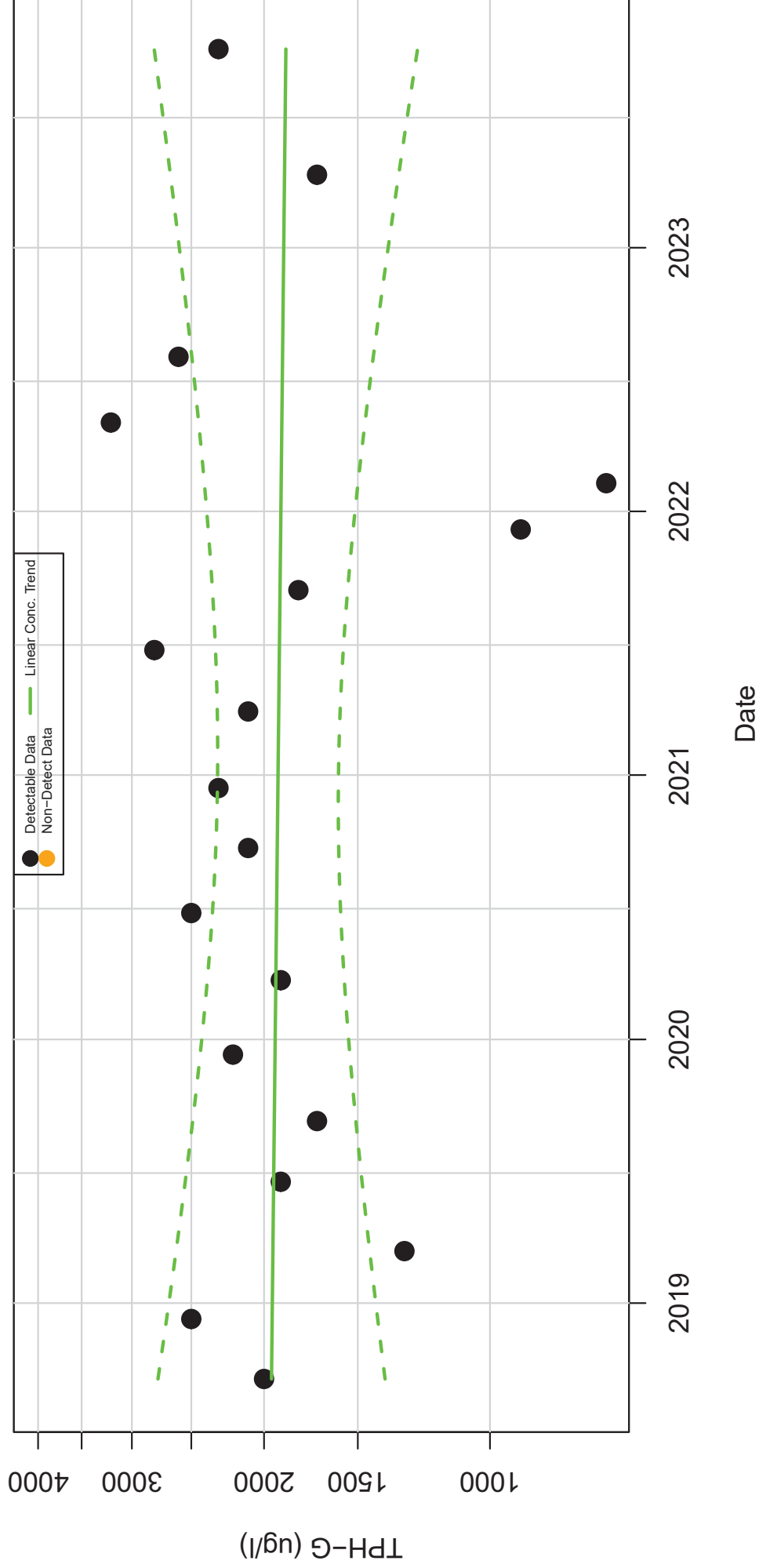
TPH-G in B-25 : Aquifer-Blank

Mann-Kendall P.Value= 0.776; Half-Life> 5 Years



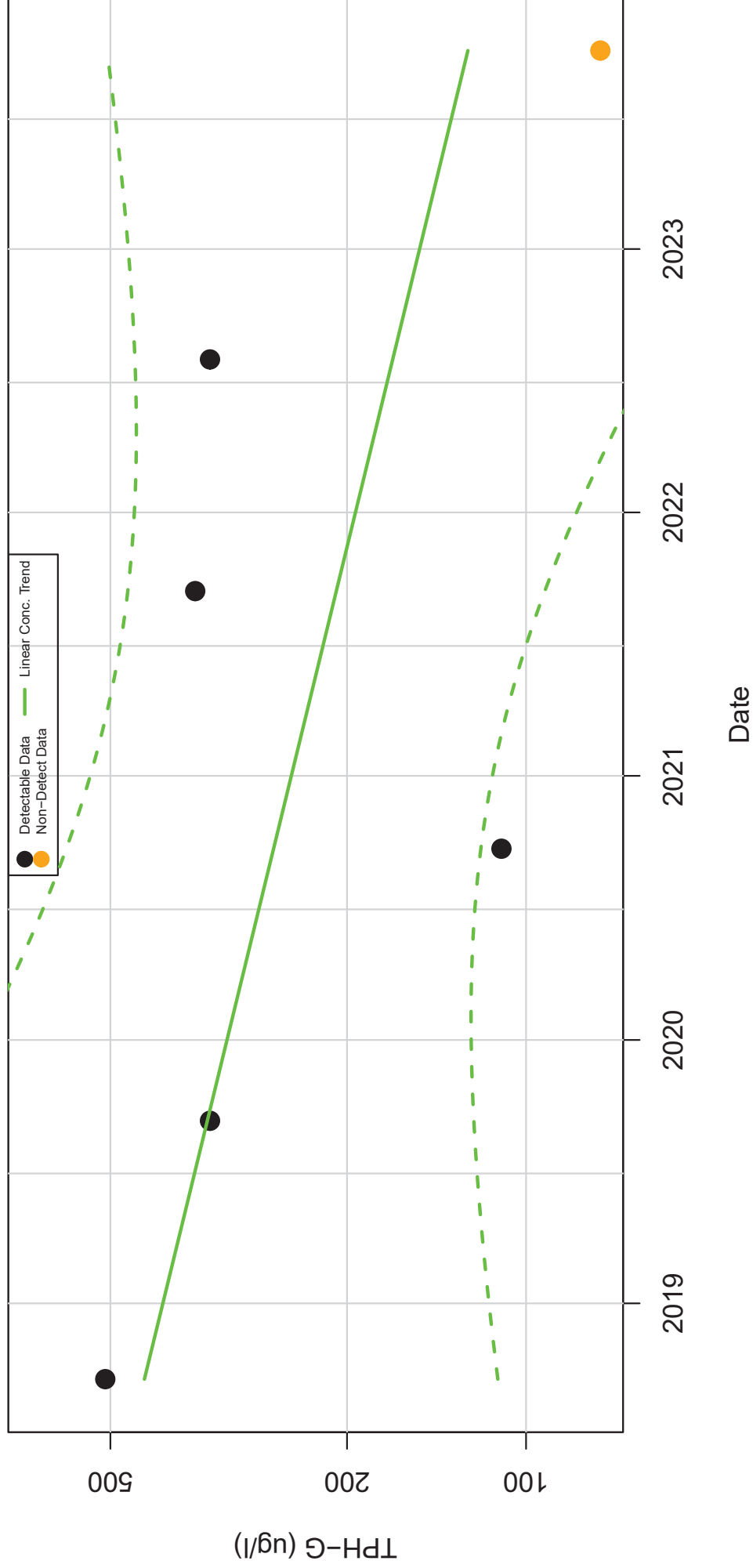
TPH-G in B-34 : Aquifer-Blank

Mann-Kendall P.Value= 0.699; Half-Life> 5 Years

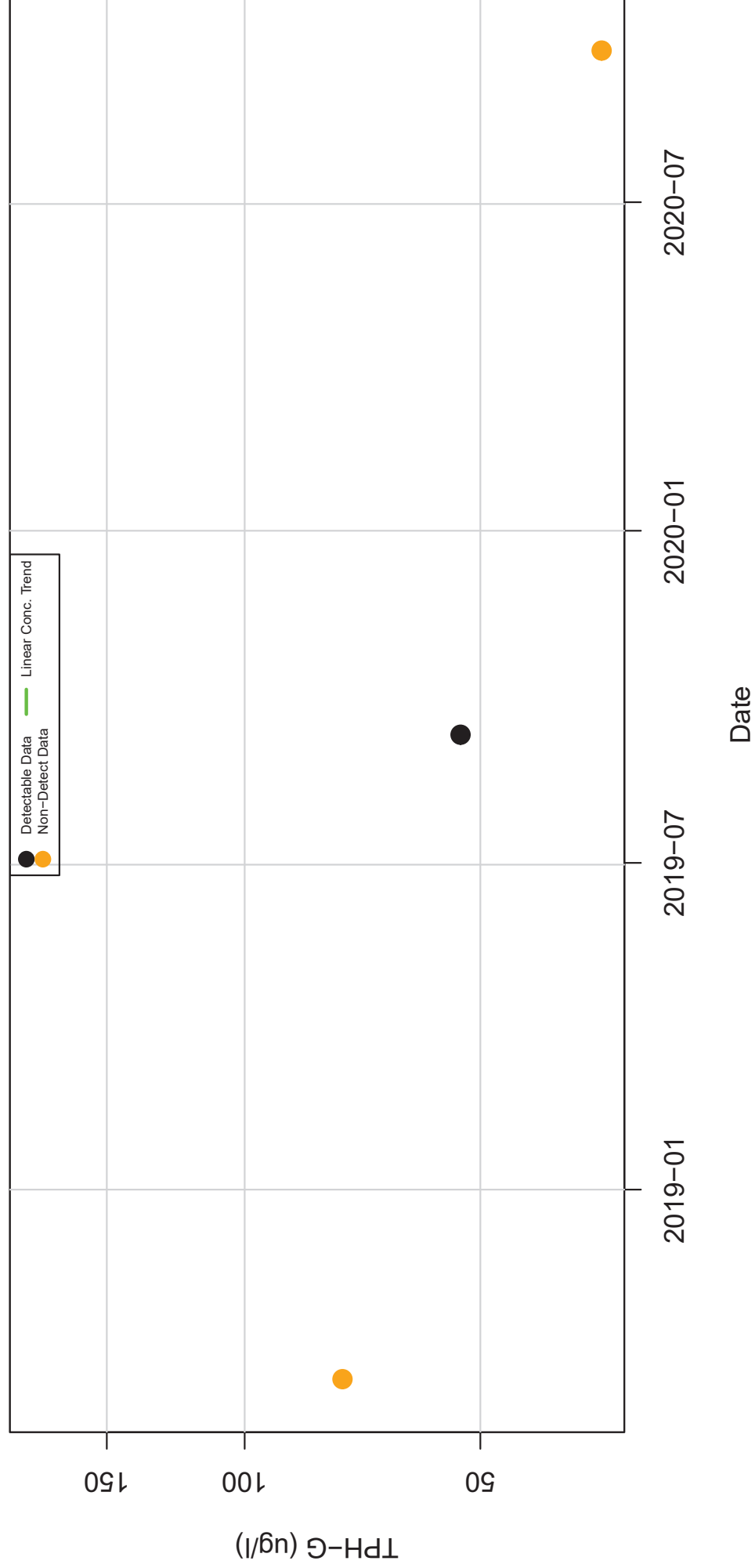


TPH-G in G-8 : Aquifer-Blank

Mann-Kendall P.Value= 0.181; Half-Life= 1019 days

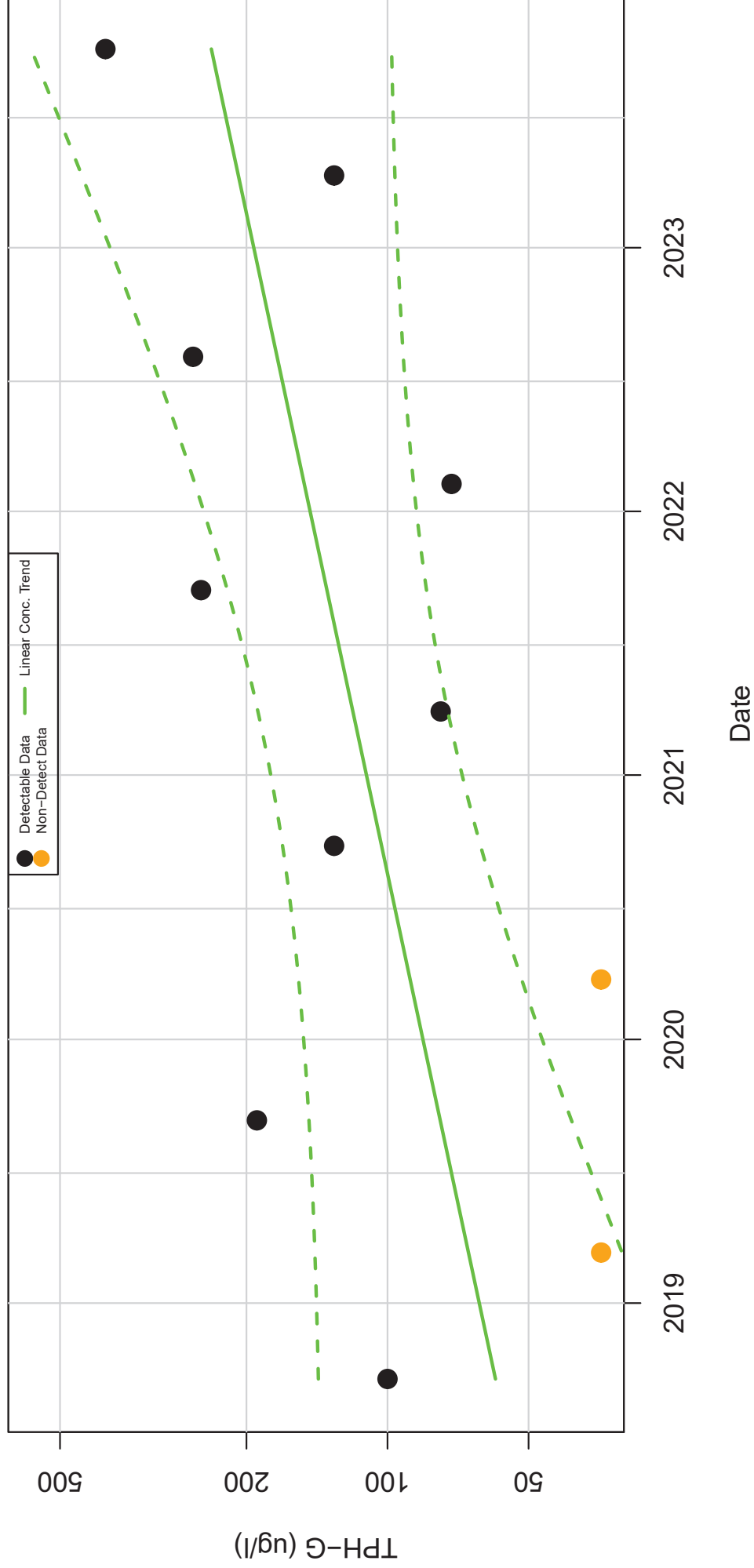


TPH-G in G-16 : Aquifer-Blank



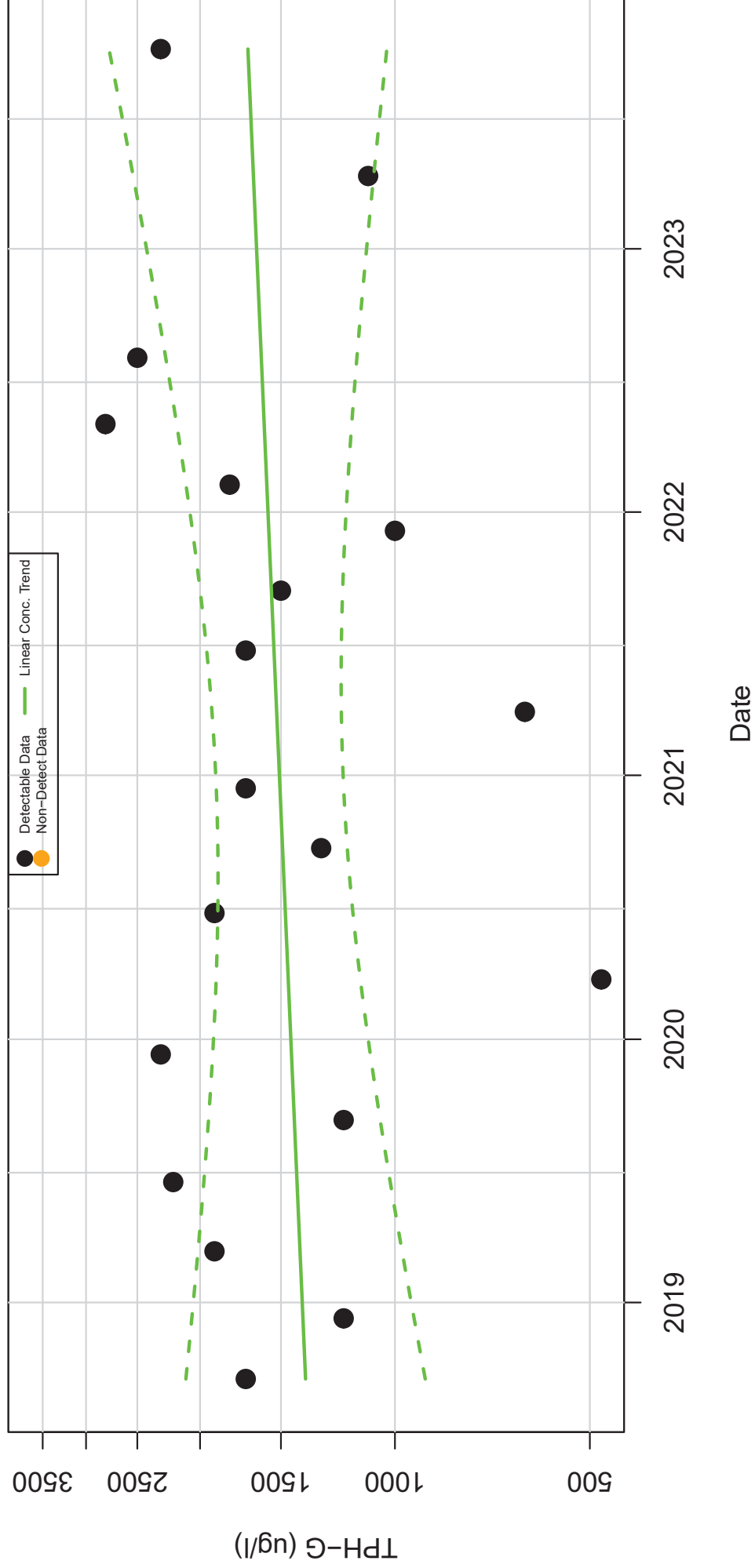
TPH-G in G-18 : Aquifer-Blank

Mann-Kendall P-Value= 0.0849; Half-Life= -914 days



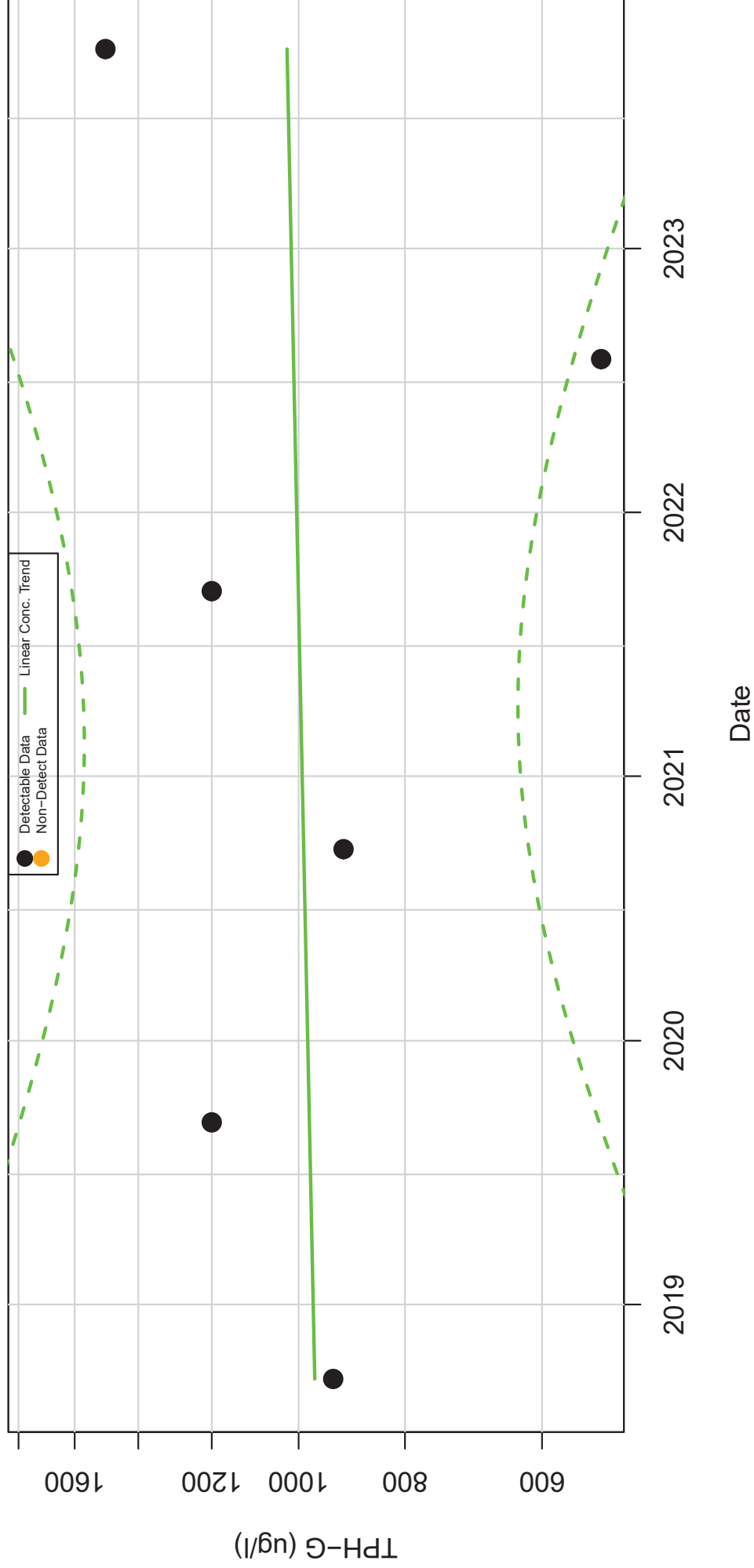
TPH-G in HC-111 : Aquifer-Blank

Mann-Kendall P.Value= 0.527; Half-Life> -5 Years

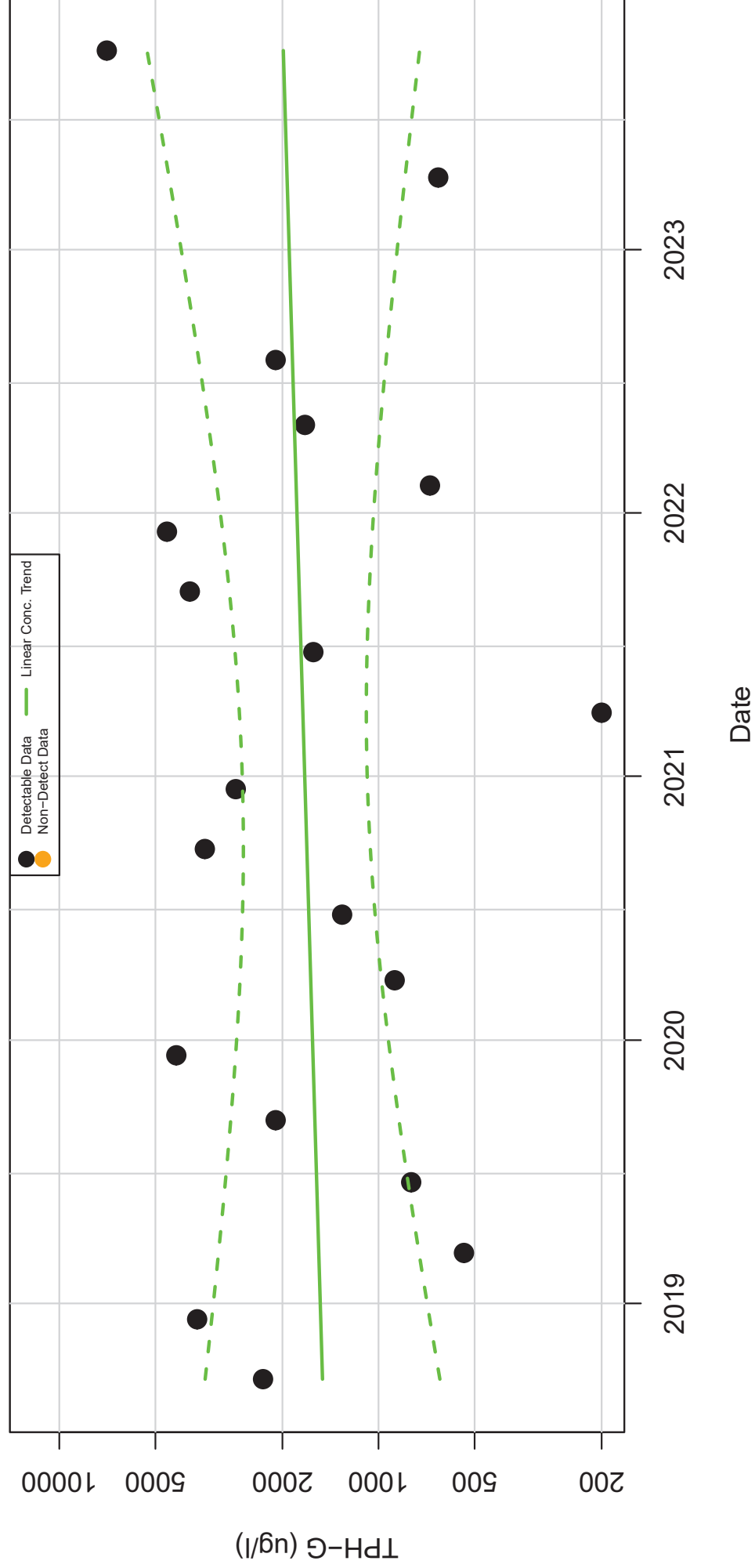


TPH-G in RW-2 : Aquifer-Blank

Mann-Kendall P-Value= 0.848; Half-Life> -5 Years

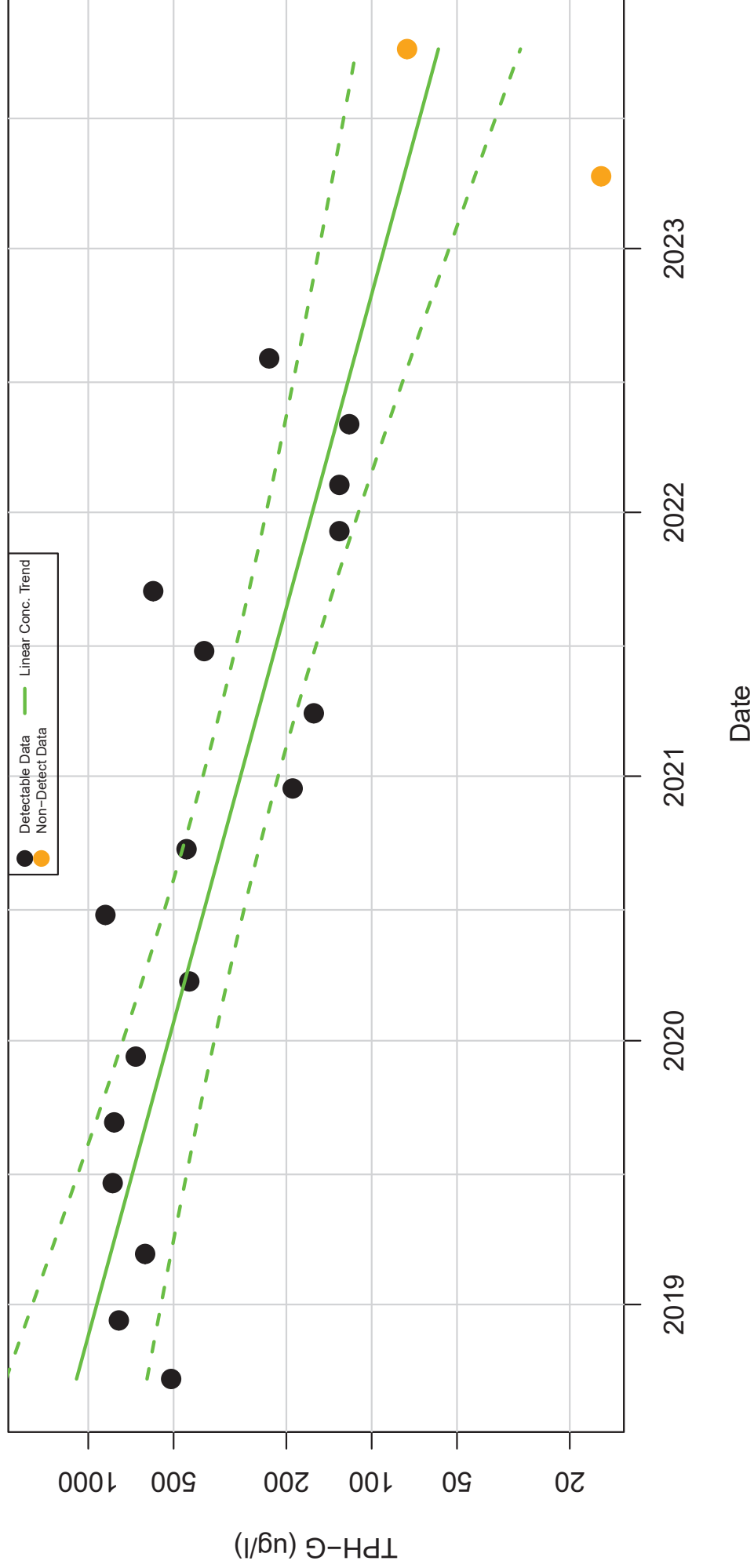


TPH-G in RW-5R : Aquifer-Blank
Mann-Kendall P-Value= 0.649; Half-Life> -5 Years



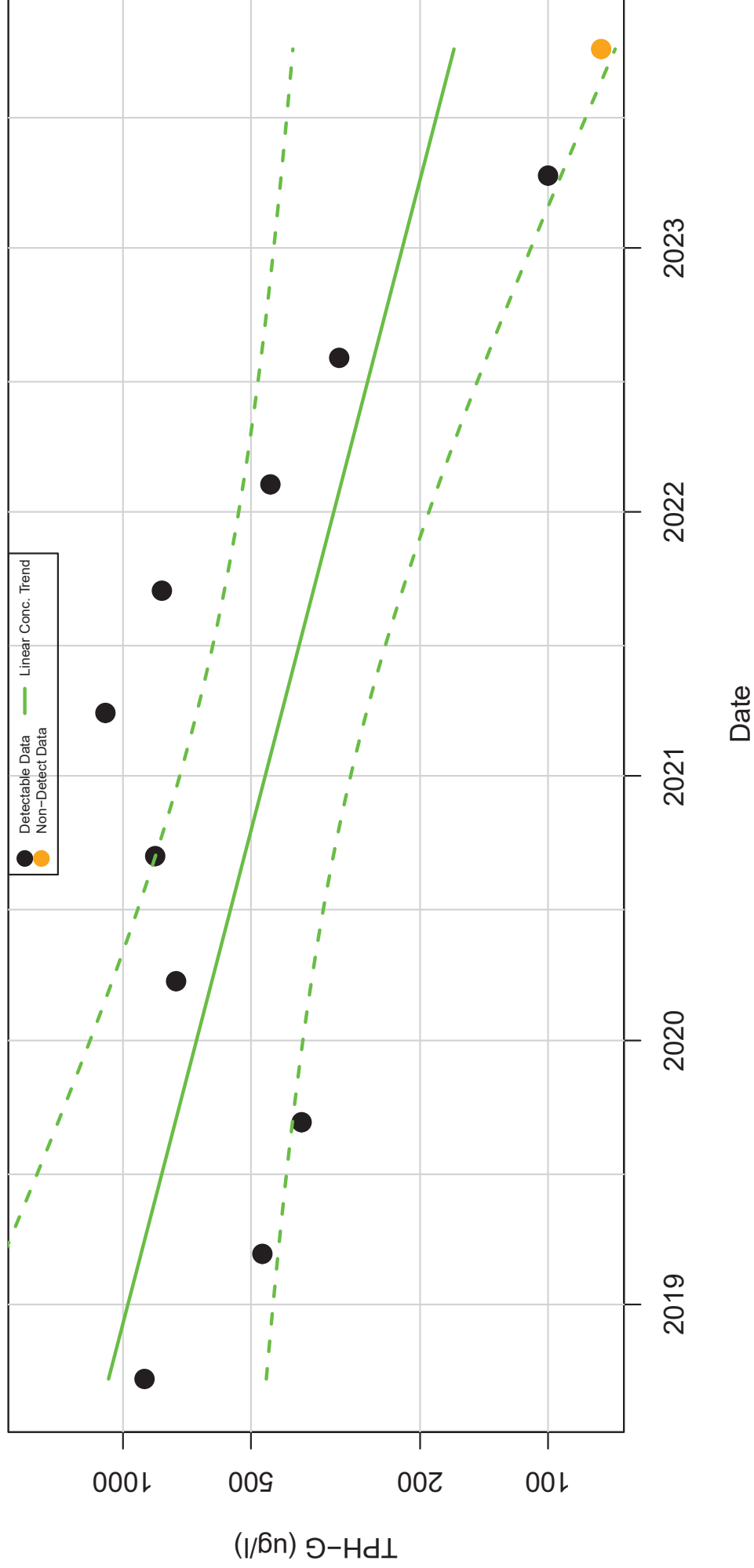
TPH-G in RW-8 : Aquifer-Blank

Mann-Kendall P.Value= <0.01; Half-Life= 434 days



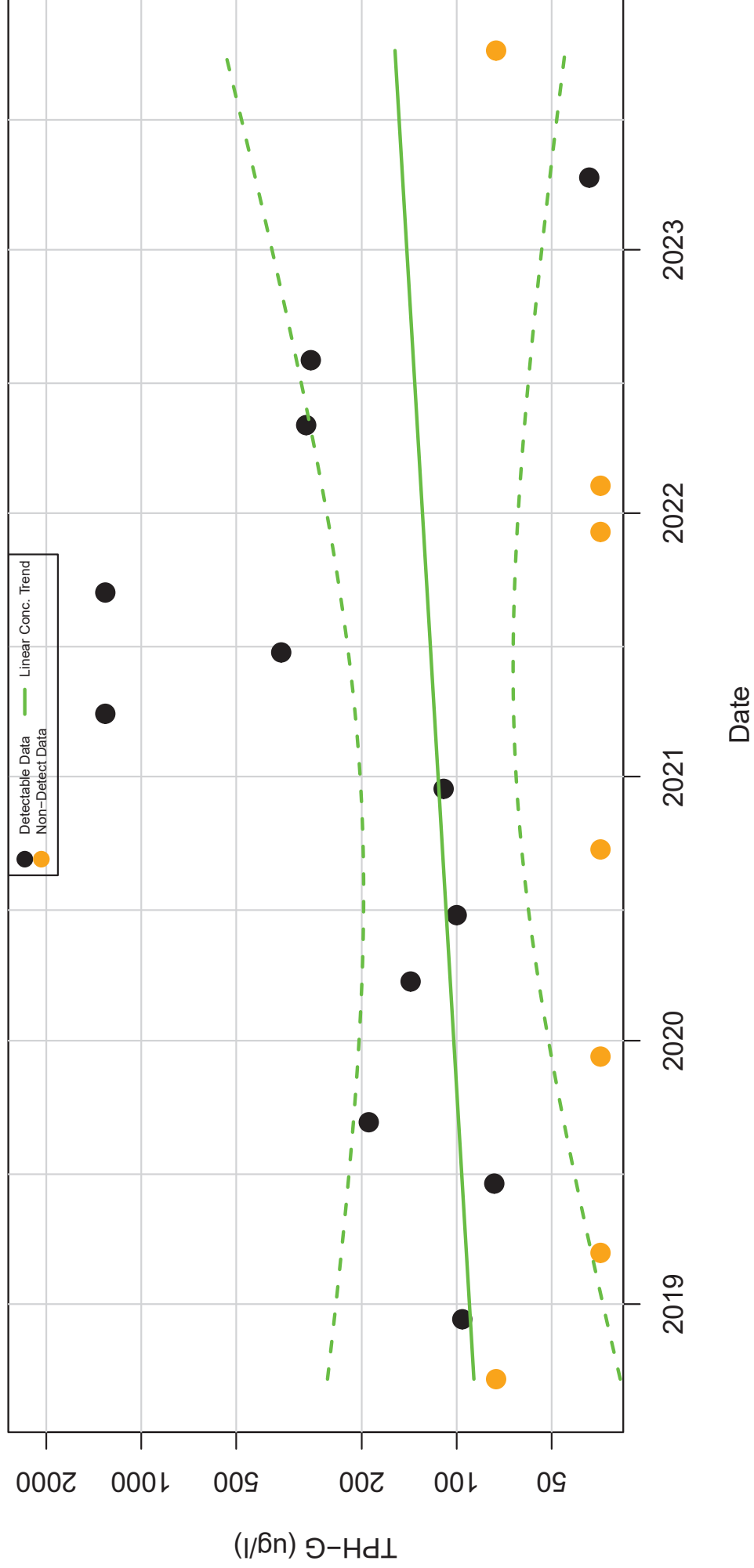
TPH-G in T-3 : Aquifer-Blank

Mann-Kendall P.Value= 0.043; Half-Life= 681 days



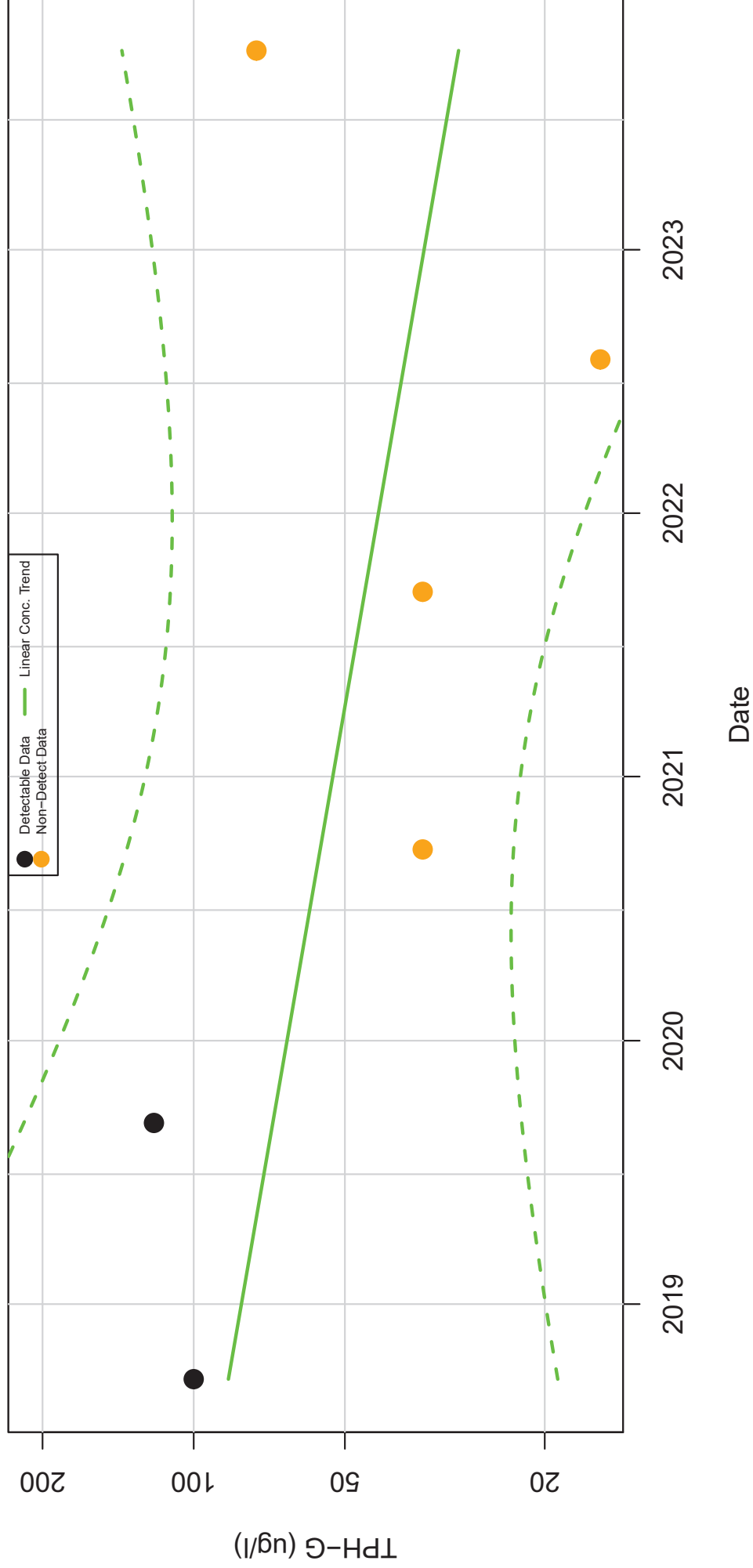
TPH-G in E-22 : Aquifer-Blank

Mann-Kendall P-Value= 0.479; Half-Life> -5 Years

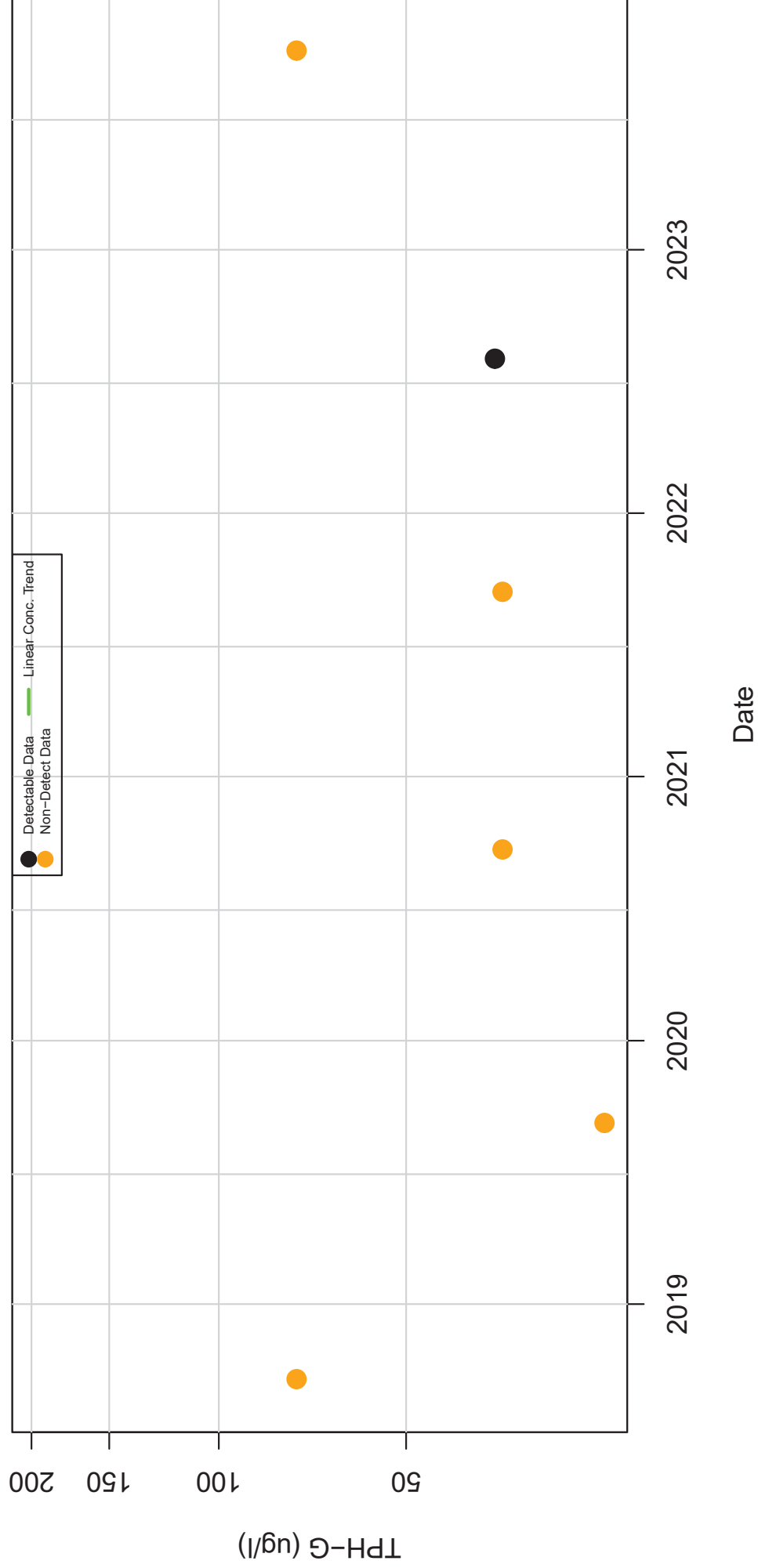


TPH-G in FW-3 : Aquifer-Blank

Mann-Kendall P.Value= 0.339; Half-Life= 1209 days

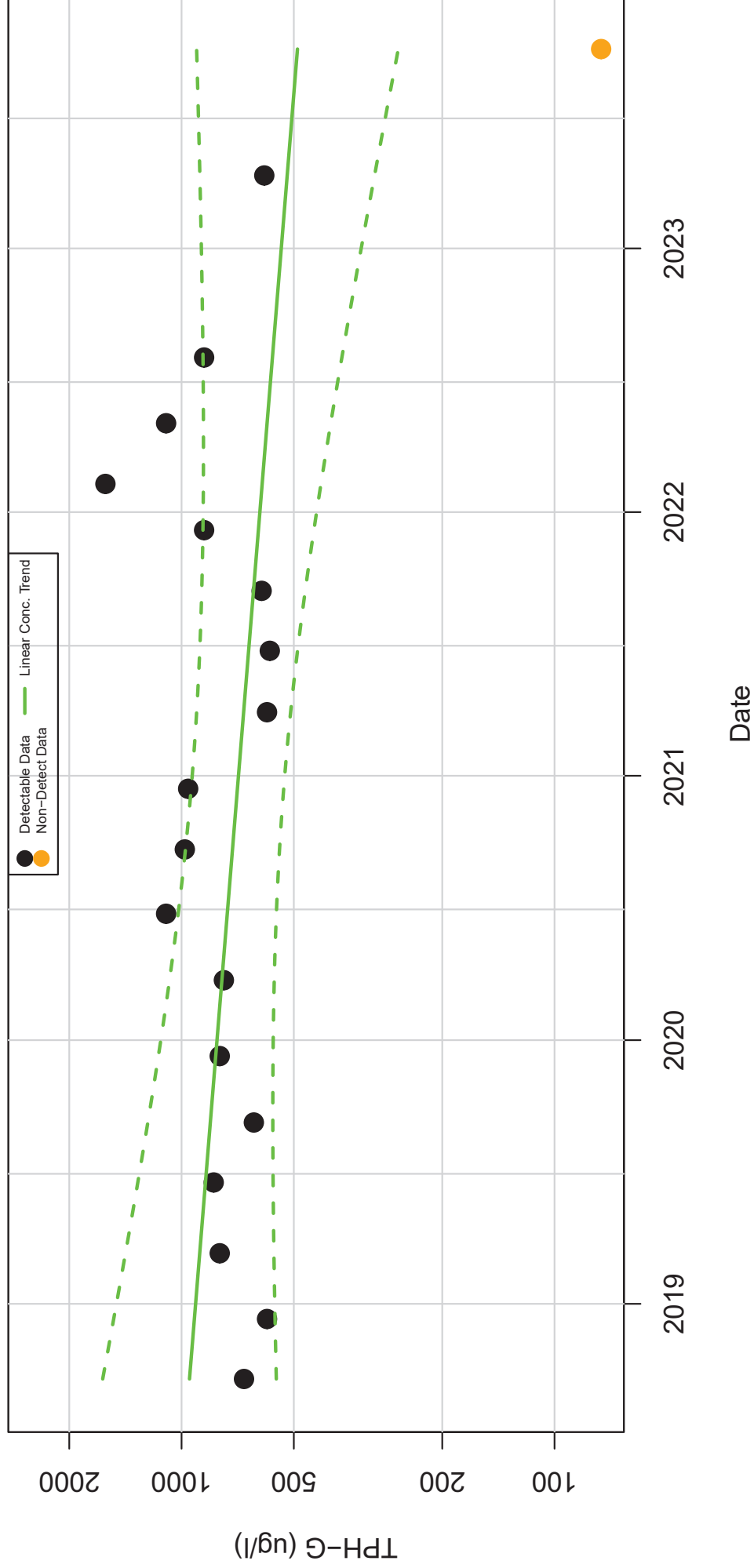


TPH-G in FW-4 : Aquifer-Blank

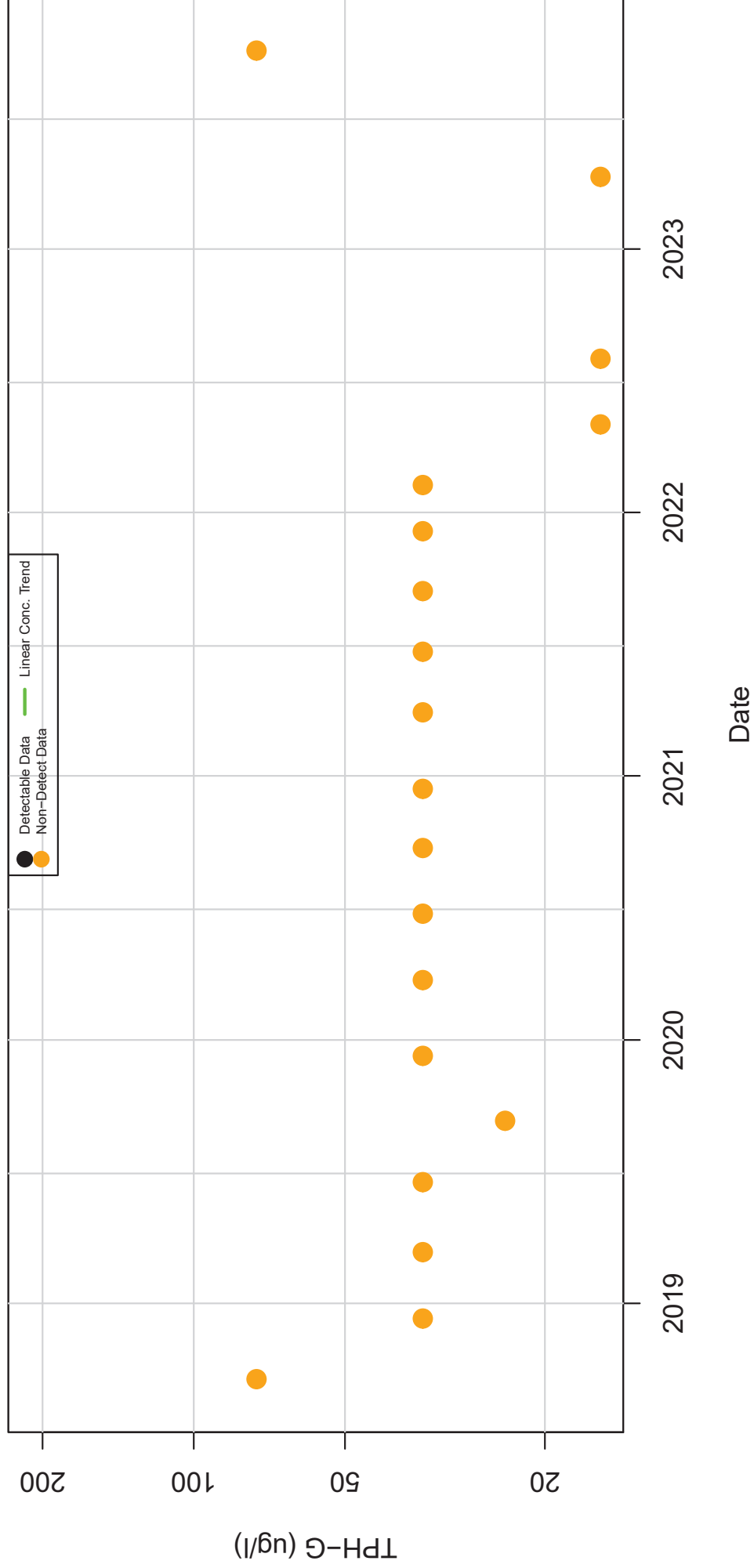


TPH-G in FW-5R : Aquifer-Blank

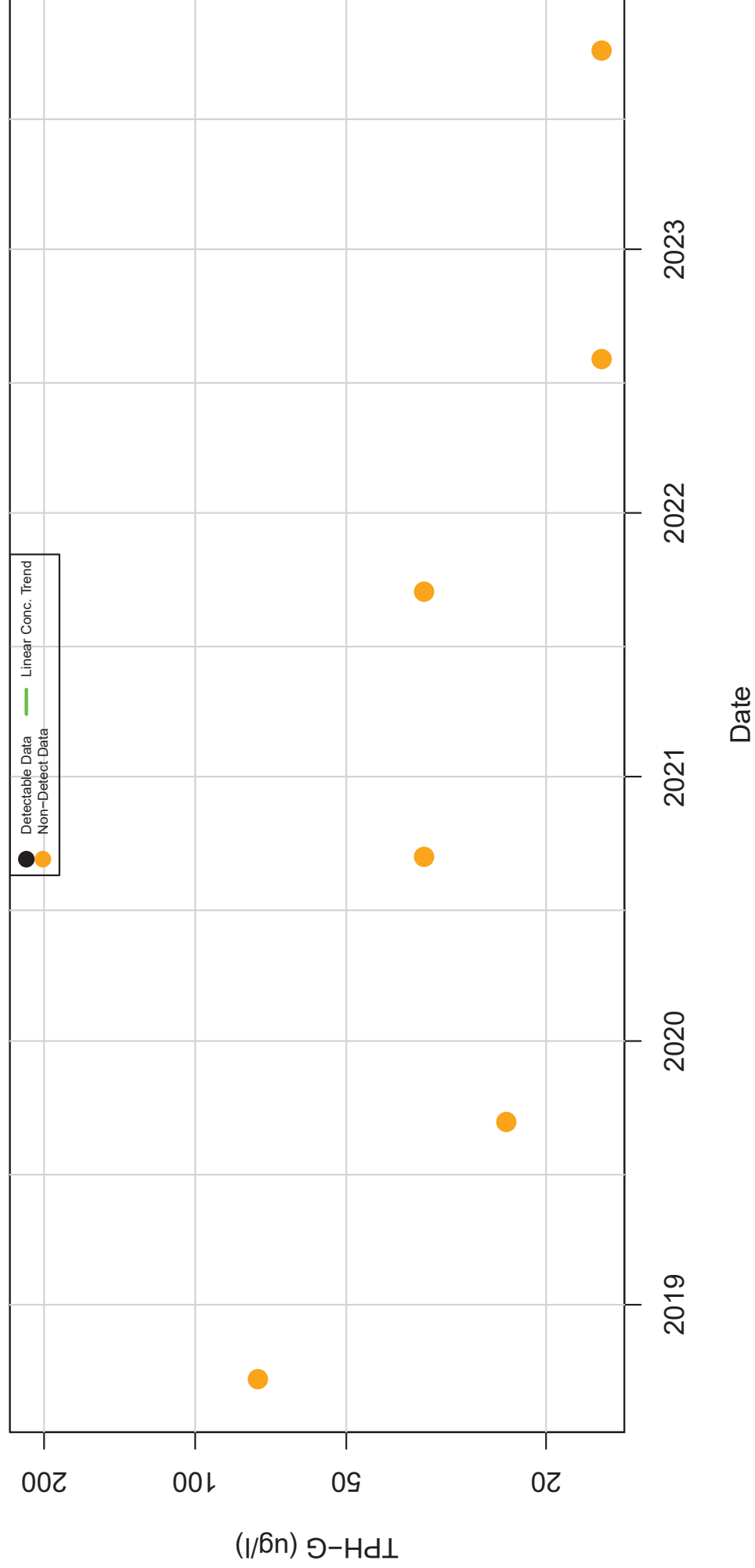
Mann-Kendall P.Value= 0.888; Half-Life> 5 Years



TPH-G in FW-14 : Aquifer-Blank

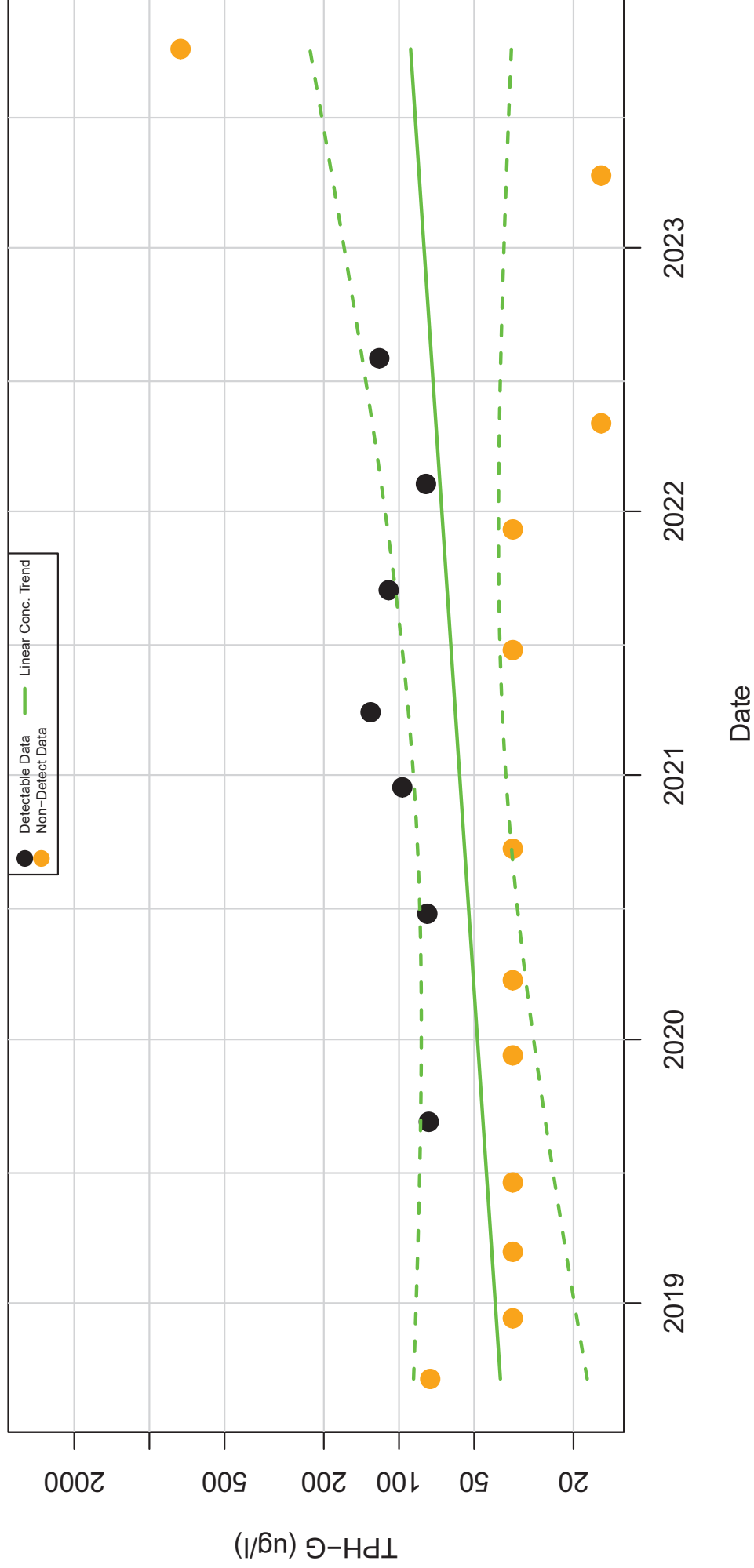


TPH-G in FW-15 : Aquifer-Blank

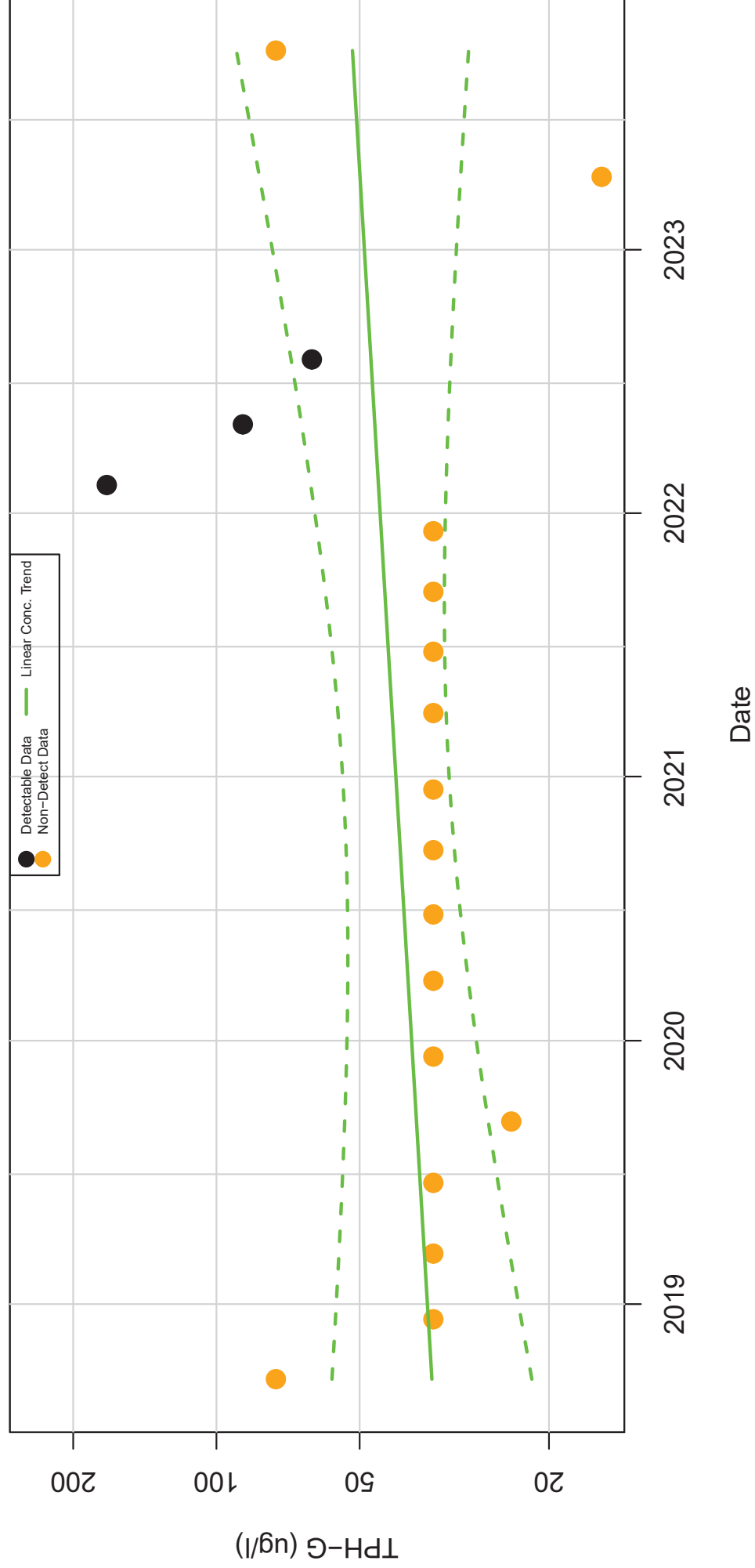


TPH-G in RR-1 : Aquifer-Blank

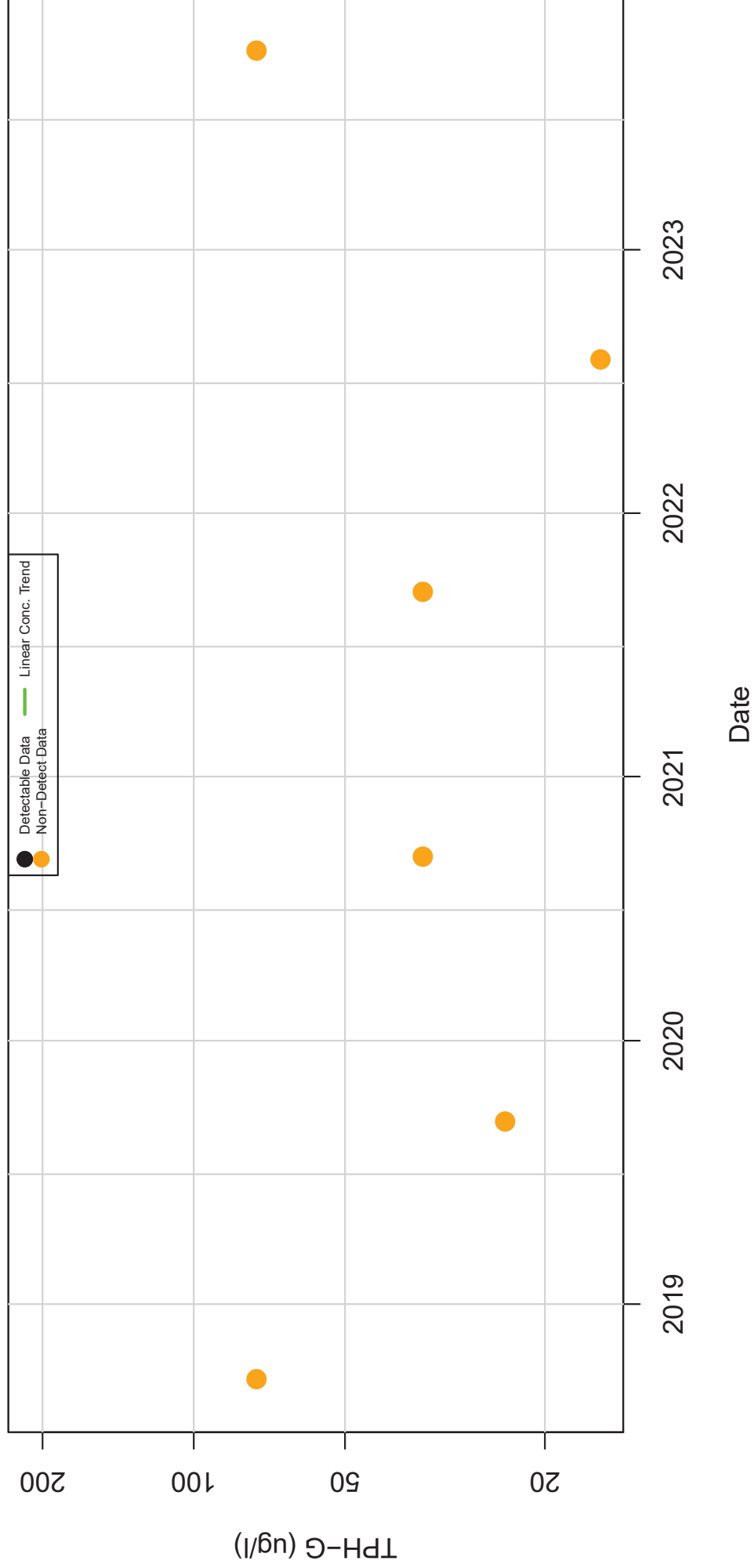
Mann-Kendall P-Value= 0.324; Half-Life= -1542 days



Mann-Kendall P.Value= 0.309; Half-Life> -5 Years

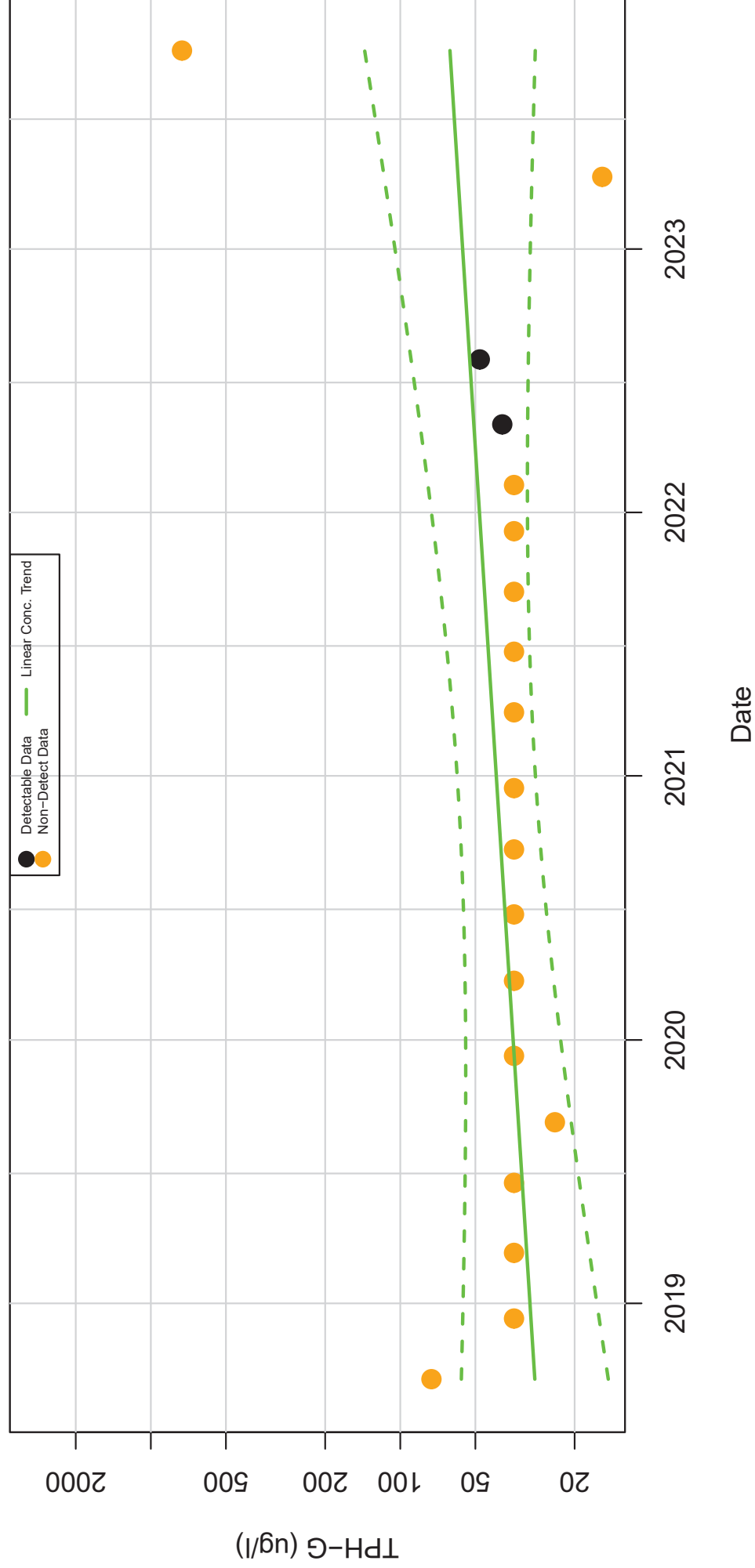


TPH-G in RR-3 : Aquifer-Blank



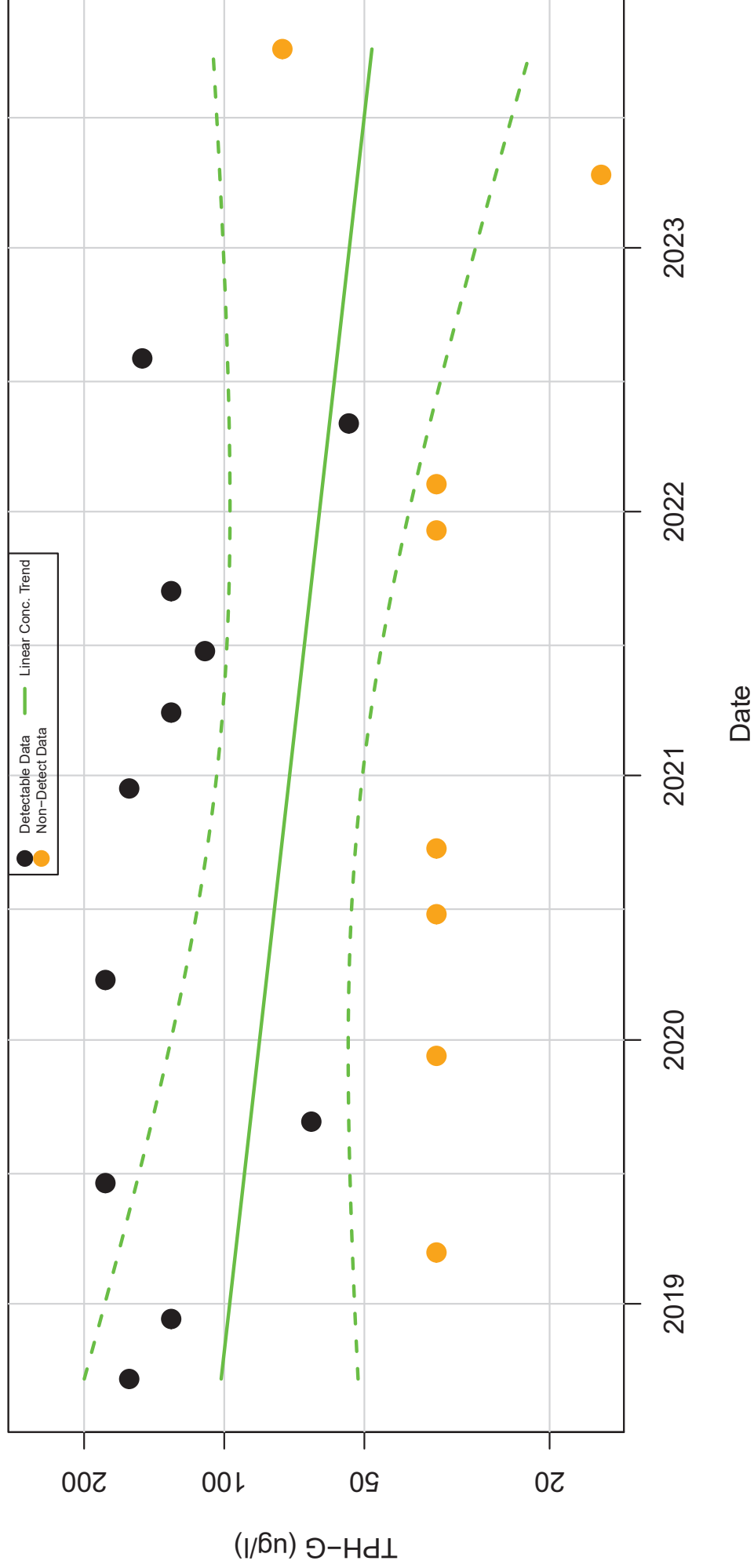
TPH-G in RR-4: Aquifer-Blank

Mann-Kendall P. Value= 0.393; Half-Life= -1629 days



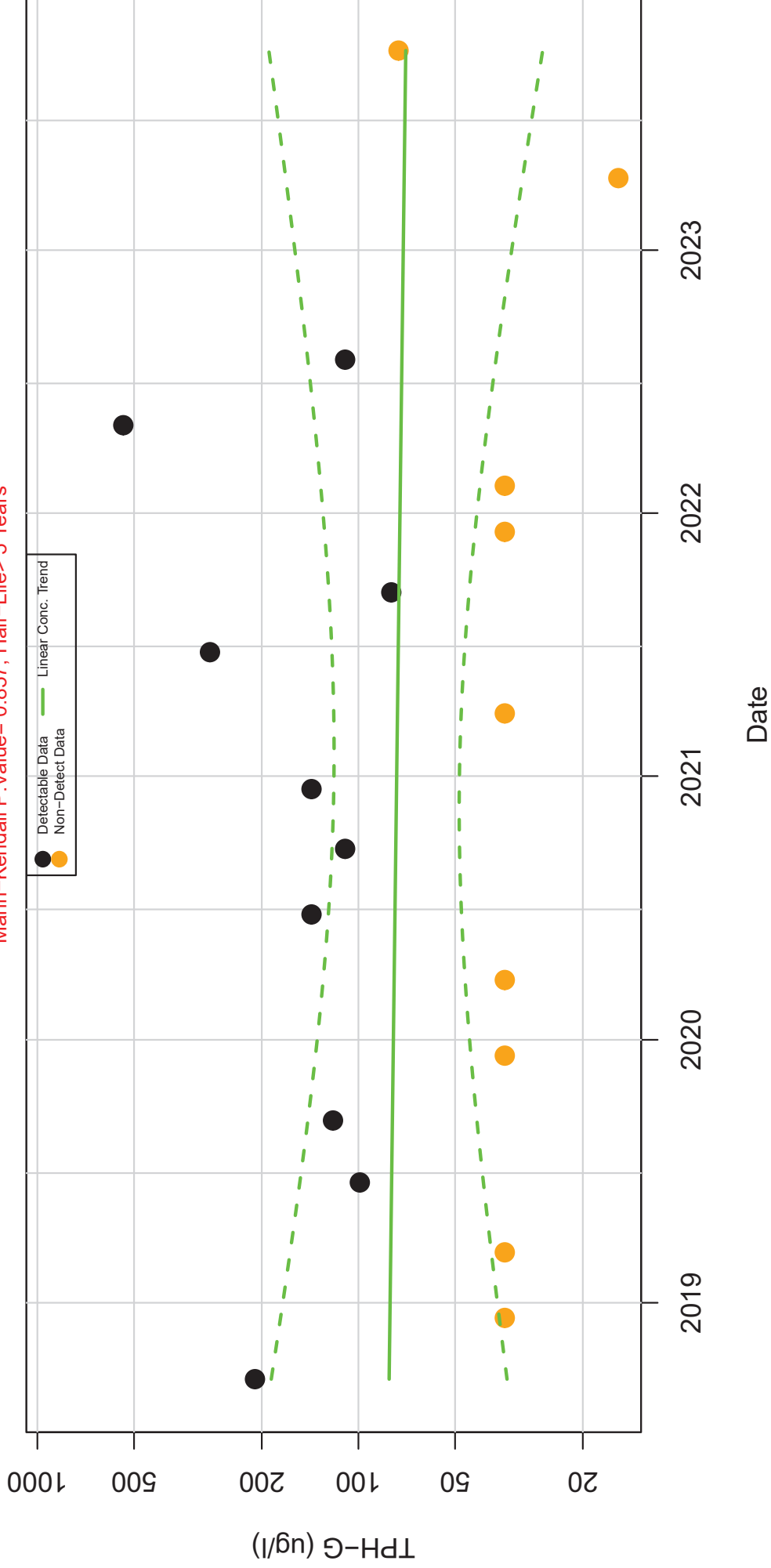
TPH-G in RR-5 : Aquifer-Blank

Mann-Kendall P.Value= 0.224; Half-Life= 1710 days

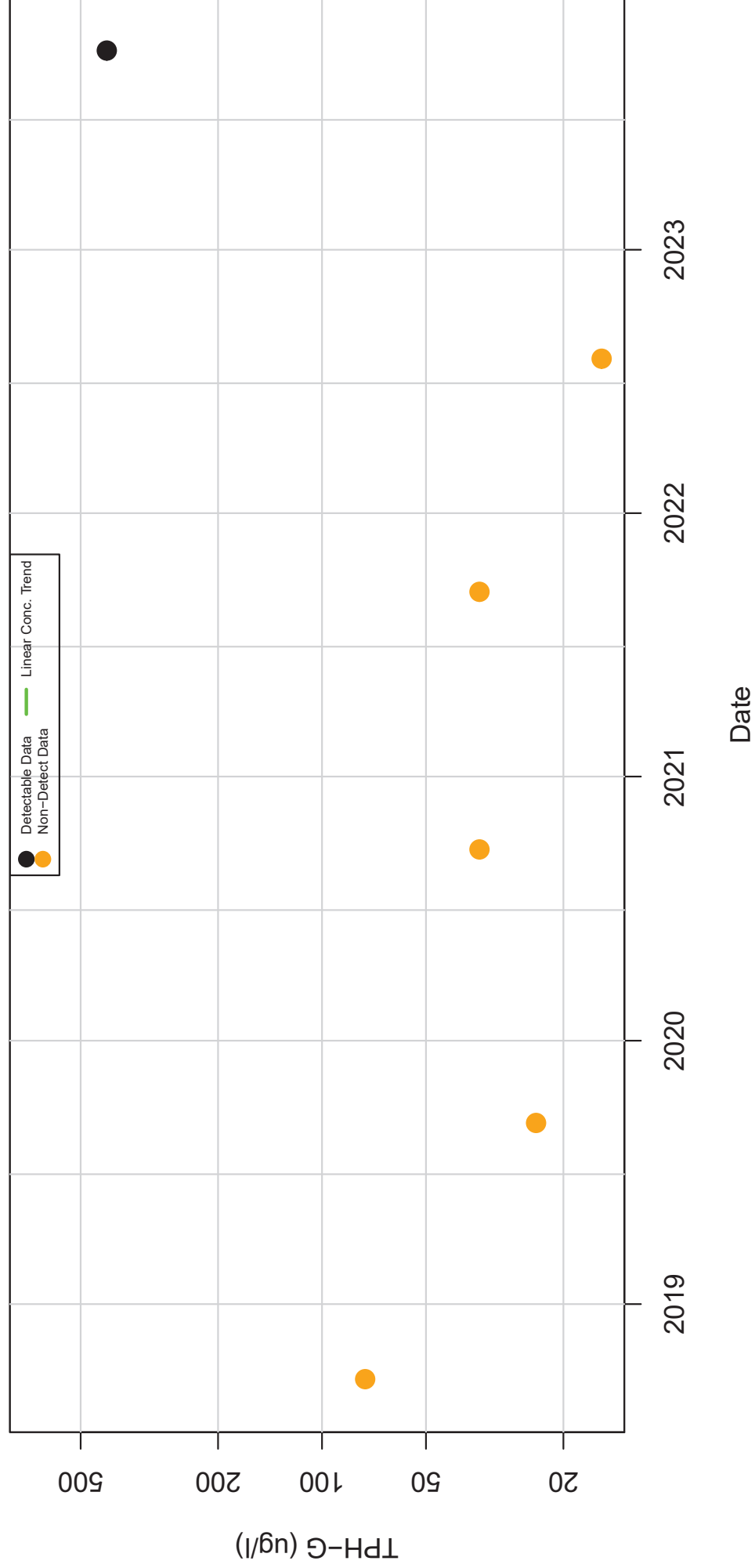


TPH-G in T-2 : Aquifer-Blank

Mann-Kendall P.Value= 0.857; Half-Life> 5 Years

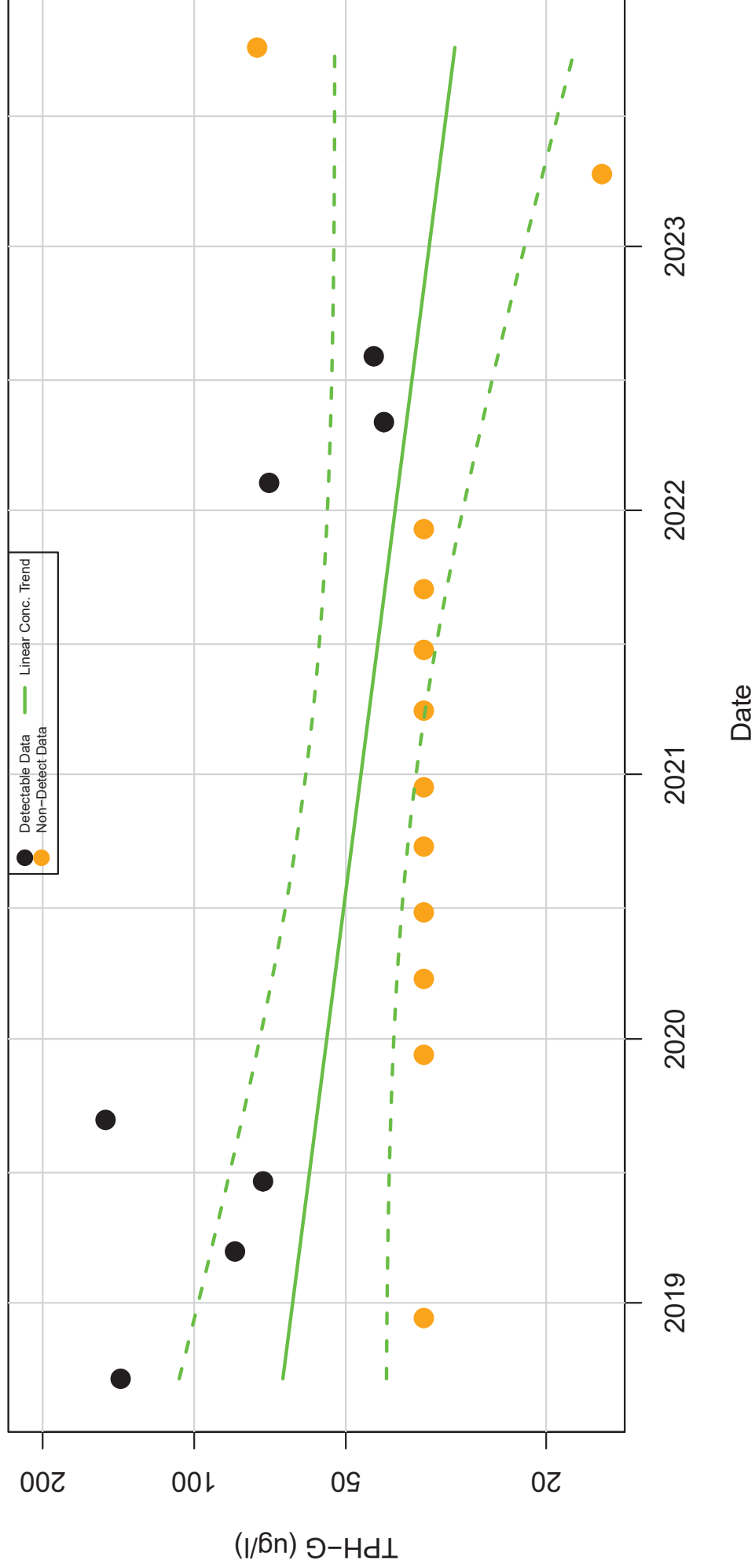


TPH-G in DMW-1 : Aquifer-Blank



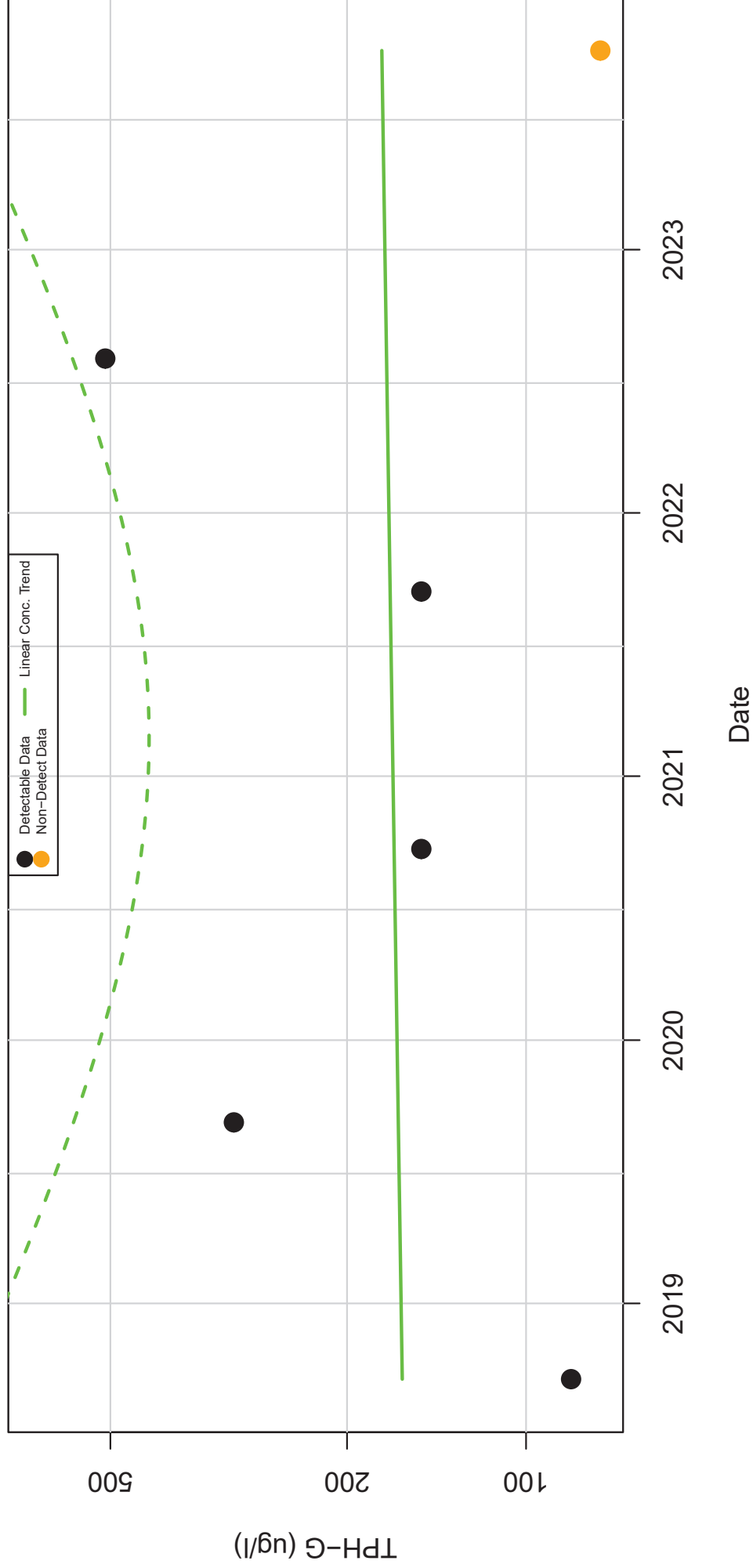
TPH-G in DMW-2 : Aquifer-Blank

Mann-Kendall P.Value= 0.425; Half-Life= 1622 days

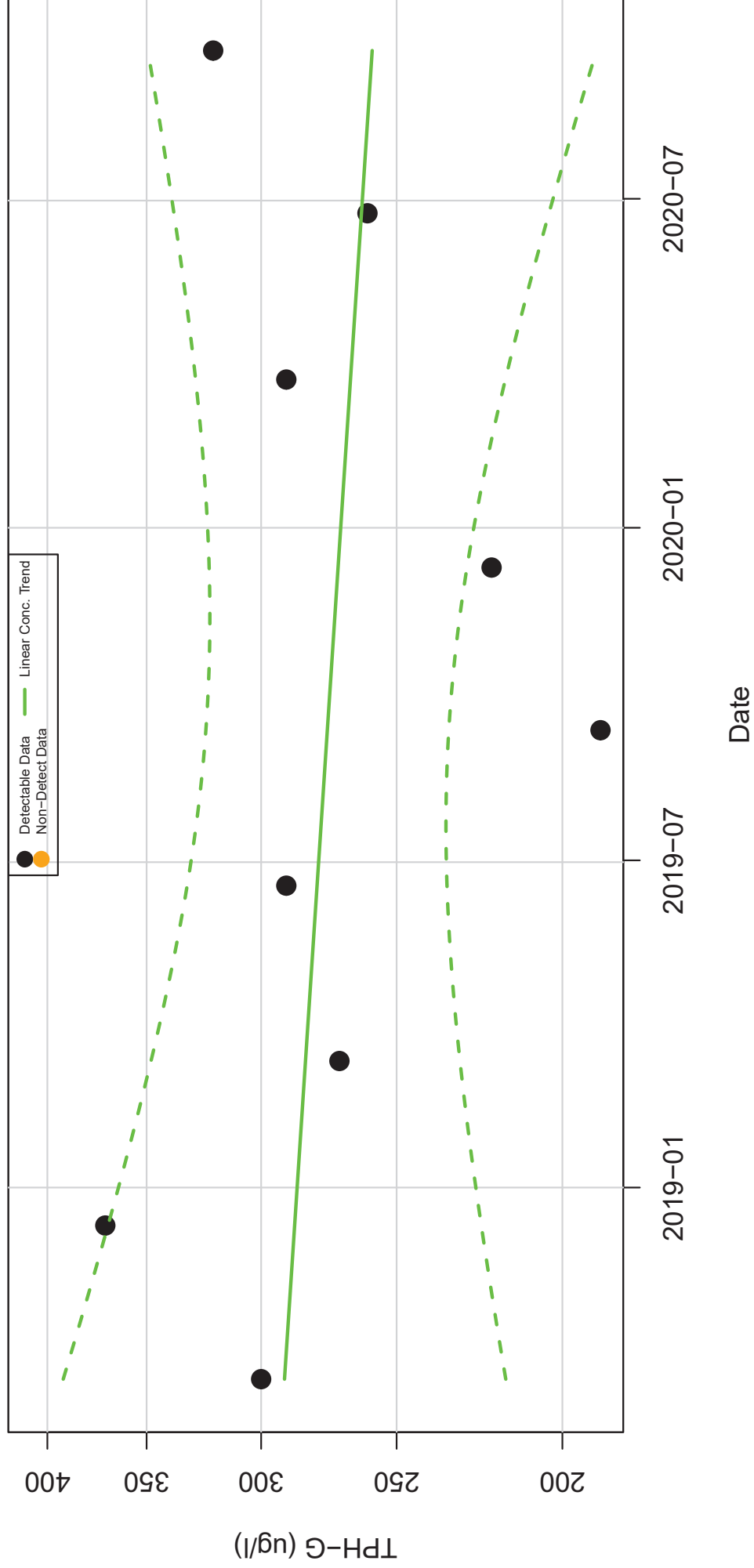


TPH-G in DMW-3 : Aquifer-Blank

Mann-Kendall P.Value= 1; Half-Life> -5 Years

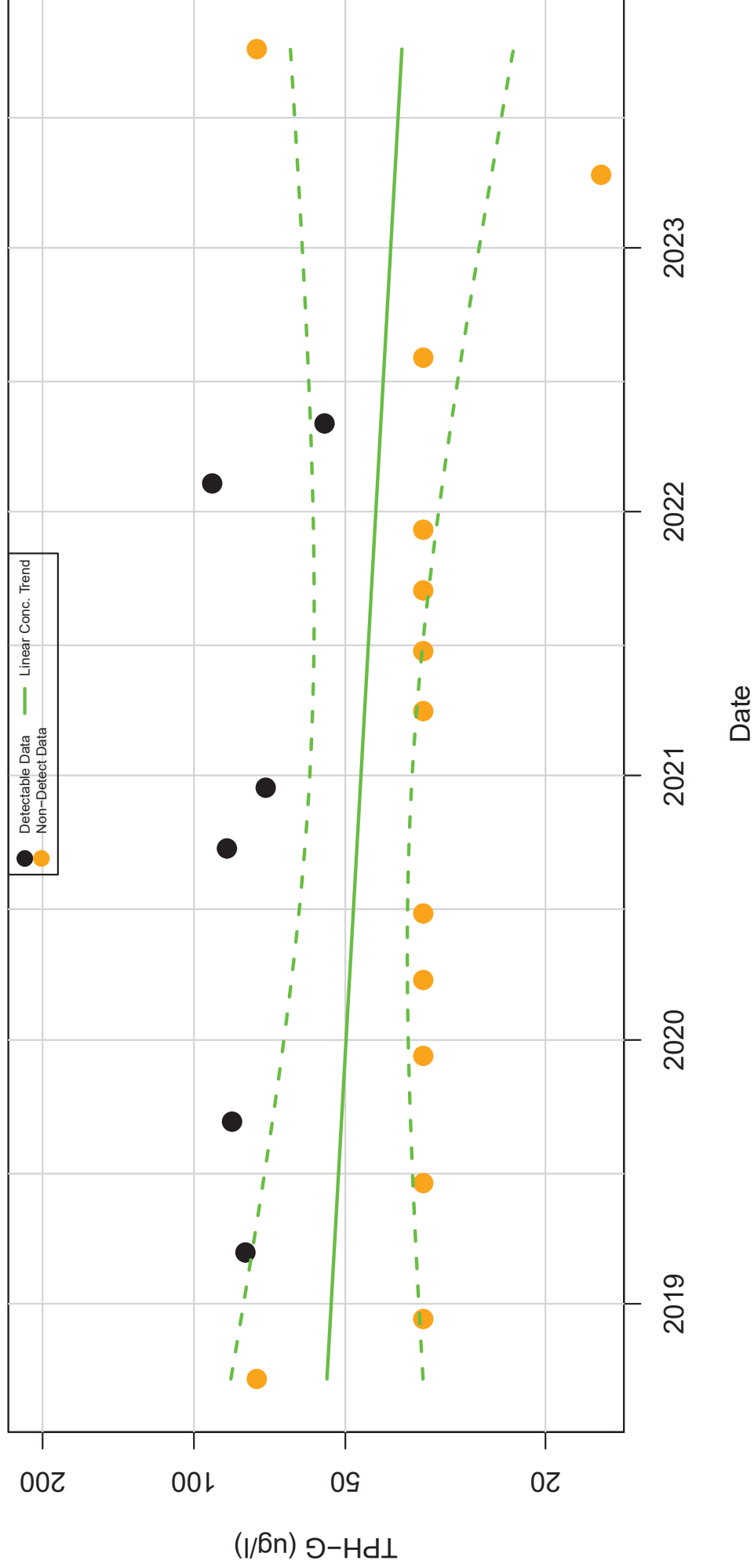


TPH-G in DMW-4 : Aquifer-Blank
Mann-Kendall P.Value= 0.675; Half-Life> 5 Years



TPH-G in FW-13 : Aquifer-Blank

Mann-Kendall P.Value= 0.594; Half-Life> 5 Years



Appendix E
Restoration Time Frame Results

Module 2: Temporal Analysis: Concentration of contaminant vs. time (Regression Analysis at each well)

Site Name: D Street Petroleum Site

Site Address: Tacoma, WA

Additional Description: 0

Hazardous Substance Benzene

1. Level of Confidence (Decision Criteria)?														85%	
2. Prediction: Calculation of Restoration Time and Predicted Concentration at Wells															
Well Location		HC-111	G-18	B-34	RR-2	RR-3	B-25	NA	NA	NA	NA	NA	NA	NA	NA
A. Cleanup Level (Criterion) to be achieved? ug/L		160	160	160	40	40	160								
A.1 Average (@50% CL ¹ best-fitting values)															
Time to reach the criterion yr		-1.63	NA	0.88	-34.83	-20.87	1.15	NA	NA	NA	NA	NA	NA	NA	NA
Date when the Criterion to be achieved date		11/1/16	NA	5/5/19	8/29/83	8/10/97	8/11/19	NA	NA	NA	NA	NA	NA	NA	NA
A.2 Boundary (@85% CL)															
Time to reach the criterion ² yr		-2.88	NA	1.13	-57.27	-39.28	1.74	NA	NA	NA	NA	NA	NA	NA	NA
Date when the Criterion to be achieved date		8/2/15	NA	8/5/19	3/28/61	3/17/79	3/16/20	NA	NA	NA	NA	NA	NA	NA	NA
B Date of Prediction?		7/22/20	7/22/20	7/22/20											
B.1 Average conc predicted (@50% CL) ug/L		66.37	NA	99.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B.2 Boundary conc predicted (@85% CL) ug/L		82.29	NA	119.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Log-Linear Regression Results															
Coefficient of Determination r^2		0.250	0.076	0.561	0.291	0.603	0.364	NA	NA	NA	NA	NA	NA	NA	NA
Correlation Coefficient r		-0.500	0.275	-0.749	-0.540	-0.777	-0.604	NA	NA	NA	NA	NA	NA	NA	NA
Number of data points n		20	11	20	20	6	19	NA	NA	NA	NA	NA	NA	NA	NA
4. Statistical Inference on the Slope of the Log-Linear Regression Line with t-statistics															
One-tailed Confidence Level calculated, %		97.534%	58.714%	99.986%	98.595%	93.075%	99.380%	NA	NA	NA	NA	NA	NA	NA	NA
Sufficient evidence to support that the slope of the regression line is significantly different from zero?		YES!	NO!	YES!	YES!	YES!	YES!	NA	NA	NA	NA	NA	NA	NA	NA
Coefficient of Variation?		NA	0.560	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Plume Stability?		Shrinking	Stable	Shrinking	Shrinking	Shrinking	Shrinking	NA	NA	NA	NA	NA	NA	NA	NA
5. Calculation of Point Decay Rate Constant (k_{point})															
Slope: Point decay rate constant (k_{point})		@50% CL	yr ⁻¹	0.236	0.130	0.393	0.158	0.244	0.467	NA	NA	NA	NA	NA	NA
		@85% CL	yr ⁻¹	0.134	NA	0.306	0.096	0.129	0.307	NA	NA	NA	NA	NA	NA
Half Life for (k_{point})		@50% CL	yr	2.931	5.331	1.763	4.375	2.844	1.486	NA	NA	NA	NA	NA	NA
		@85% CL	yr	5.185	NA	2.267	7.194	5.353	2.257	NA	NA	NA	NA	NA	NA

Note: 1. CL : Confidence Level; UD= Undetermined

2. The length of time that will actually be required is estimated to be no more than years calculated (@ 85% of confidence level.)