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2021 Annual Progress Report

D Street Petroleum Site
Tacoma, Washington

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AECOM Environment

PROFESSIONAL CERTIFICATION

2021 Annual Progress Report
D Street Petroleum Site
Tacoma, Washington

December 20, 2021

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 Knecht, LG
AECOM
Registered 4/20/2007 (expires 8/26/2022)

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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
CO2	Carbon Dioxide
DO	Dissolved Oxygen
Ecology	Washington State Department of Ecology
E_H	Redox Potential
EPA	United States Environmental Protection Agency
Fe2+	Ferrous Iron
Fe3+	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
Mn2+	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 third quarter of 2021 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 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 29 wells sampled either quarterly, 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 quarterly or annual basis. All 32 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 was inaccessible during the third quarter 2021 monitoring event. DMW-4 was therefore unable to be sampled.

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 exceeded the surface water cleanup level in wells B-25, B-34, HC-111, and RW-5R for one or more monitoring events. These wells have displayed decreasing concentrations and a downward trend in recent years. 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 August 2020. However, 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 2021 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 2020/2021 program, evaluates groundwater analytical and natural attenuation data through the third quarter 2021, 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 2020/2021 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. A total of approximately 3,182 gallons of groundwater were removed during the 2020/2021 groundwater program, bringing the total groundwater removed from the wells and treated off-site to approximately 49,117 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 third quarter 2021.

2.0 Groundwater Sampling

This section summarizes the groundwater sampling activities and MNA data collected at the Site between the fourth quarter 2020 (December 2020) and the third quarter of 2021 (September 2021), including groundwater sampling, analytical procedures, and data review.

2.1 Summary of Sampling Activities

The 2020/2021 program consisted of quarterly sampling in December 2020, March 2021, June 2021, and September 2021. Quarterly reports summarizing the sampling activities, analytical results, and data review of the fourth quarter (December 2020), first quarter (March 2021), and second quarter (June 2021) sampling events have been submitted to Ecology (AECOM 2021a, 2021b, 2021c). The third quarter (September 2021) sampling event is summarized in this report. Figure 2 shows the well network for the 2020/2021 program.

AECOM measured the depth to water and free product, if present, in 31 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 2020/2021 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 September 2021 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 scheduled to be sampled during the third quarter 2021 monitoring event; however, the well casing of DMW-4 was damaged in 2021. The well was inaccessible and was therefore 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 third quarter 2021 samples were submitted to Eurofins TestAmerica 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; TPH-D and TPH-O by Ecology Method NWTPH-Dx; and natural attenuation parameters, including nitrate-nitrogen and sulfate, by EPA Method 300.0. Samples were also subcontracted to Eurofins TestAmerica in Tacoma, Washington, an Ecology-accredited laboratory, for analysis of lead (total and dissolved) and manganese (dissolved) by EPA Method 6020B and alkalinity by EPA Method

310.1. Samples from select wells were analyzed for naphthalenes by EPA Method 8270E SIM at Eurofins TestAmerica in Tacoma, Washington. The laboratory reports and chain of custody records for the third quarter 2021 sampling event are provided in Appendix B.

2.3 Summary of Data Review

AECOM reviewed the third quarter 2021 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 (January 2020*) and *National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2020*). The data completeness for all data groups (Eurofins TestAmerica laboratory groups 590-15884-1, 590-15898-1, and 590-15904-1) 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 2020/2021 Program

This section evaluates the groundwater data collected in December 2020, March 2021, June 2021, and September 2021. 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 September 2021. 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 2020/2021 groundwater monitoring program are presented for benzene (Figures 3 through 6), TPH-G (Figures 7 through 10), and TPH-D (Figures 11 through 14). 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. 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 September 2021.

2.4.1.1 Benzene Results

The results for benzene concentrations during the 2020/2021 groundwater program indicate well B-25 exceeded the groundwater cleanup level of 0.16 mg/L during at least one event, and wells B-34, HC-111 and RW-5R exceeded the surface water cleanup level of 0.04 mg/L during at least one event. Benzene concentrations in the sentinel wells and the surface water compliance wells were below groundwater and surface water cleanup levels in all four quarters.

As shown on Figures 3 through 6, benzene was detected in well RW-5R (shoreline area) above the surface water cleanup level of 0.04 mg/L in December 2020, but below the groundwater cleanup level of 0.16 mg/L. No other 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 the last four quarters:

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
December 2020	0.130	NS	NS	0.000093 U
March 2021	0.000093 U	NS	0.0011	0.000093 U
June 2021	0.0021	NS	NS	0.0013
September 2021	0.00090	0.00030 J	0.00023 J	0.0033

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

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 four quarters:

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
December 2020	0.052	0.360	0.00090	0.13	NS
March 2021	0.027	0.033	0.000093 U	0.13	0.00048
June 2021	0.035	0.097	0.00097	0.13	NS
September 2021	0.026	0.230	0.0016	0.083	0.00037 J

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

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 2020/2021 groundwater program. The benzene concentration in well B-19 was reported at 0.0033 mg/L in September, below groundwater and surface water cleanup levels.

Well FW-5R, a sentinel well located adjacent to the shoreline inside the terminal, was sampled during all four sampling events. Benzene concentrations in well FW-5R ranged from non-detect to 0.00052 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 all four sampling events. Benzene concentrations in well E-22 ranged from an estimated 0.00025 to 0.0026 mg/L, below groundwater and surface water cleanup levels.

2.4.1.2 TPH-G Results

The results for the 2020/2021 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 7 through 10. 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 the last four quarters:

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
December 2020	2.8	NS	NS	0.19
March 2021	0.20	NS	1.1	0.16
June 2021	1.6	NS	NS	0.39
September 2021	3.9	0.360	0.81	0.59

Concentrations are provided in mg/L

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 the last four quarters:

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
December 2020	1.7	2.3	1.0	2.3	NS
March 2021	0.63	1.3	0.34	2.1	0.077 J
June 2021	1.7	1.8	1.3	2.8	NS
September 2021	1.5	2.3	1.4	1.8	0.250

Concentrations are provided in mg/L

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

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 semi-annually during the 2020/2021 groundwater program. The TPH-G concentration in well B-19 was reported at 0.33 mg/L in March 2021 and 1.3 mg/L in September 2021.

TPH-G was detected in sentinel wells E-22, FW-5R, and T-2 in the 2020/2021 groundwater program at concentrations ranging from an estimated 0.079 mg/L (T-2, September 2021) to 1.3 mg/L (E-22, March 2021, and September 2021); and in surface water compliance wells RR-1 and RR-5 at concentrations ranging from an estimated 0.097 (RR-1, December 2020) to 0.16 mg/L (RR-5, December 2020). TPH-G was not detected in sentinel wells FW-3, FW-4 and FW-14, or surface water compliance wells FW-15, RR-2, RR-3, and RR-4.

2.4.1.3 TPH-D Results

The results for TPH-D during the 2020/2021 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 11 through 14. 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 the last four quarters:

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
December 2020	1.2	NS	NS	0.83
March 2021	0.24 J	NS	0.71	1.0
June 2021	0.83	NS	NS	1.3
September 2021	2.4	0.38	0.40	1.8

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 the last four quarters:

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
December 2020	6.1	0.93	1.3	13	NS
March 2021	3.6	0.60	3.7	6.2	0.67
June 2021	3.8	0.61	2.3	8.4	NS
September 2021	4.6	0.78	2.1	11	1.2

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 semi-annually during the 2020/2021 groundwater program. The TPH-D concentration in well B-19 was reported at 0.46 mg/L in March 2021 and 0.96 mg/L in September 2021.

TPH-D was detected in all sentinel wells except FW-14 and surface water compliance wells RR-1 and RR-5 during one or more of the sampling events during the 2020/2021 groundwater program. However, only sentinel well FW-5R had detections above 1 mg/L. TPH-D was detected in the sentinel wells at concentrations ranging from an estimated 0.16 mg/L (T-2, March 2021) to 4.8 mg/L (FW-5R, December 2020). TPH-D was detected in the surface water compliance wells at concentrations ranging from an estimated 0.12 mg/L (RR-1, September 2021) to 0.27 mg/L (RR-5, March 2021).

2.4.1.4 TPH-O Results

The results for the 2020/2021 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 the last four quarters:

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
December 2020	0.21 J	NS	NS	0.23 J
March 2021	0.13 J	NS	0.41 U	0.40 U
June 2021	0.12 U	NS	NS	0.28 J
September 2021	0.13 U	0.12 U	0.12 U	0.28 J

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 the last four quarters:

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	3.30	3.6	1.6
December 2020	0.59	0.12 J	0.15 J	0.77	NS
March 2021	0.58	0.11 U	0.51 J	0.58	0.28 J
June 2021	0.38 J	0.12 U	0.16 J	0.60	NS
September 2021	0.41	0.13 U	0.13 J	0.75	0.14 J

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

Well B-19, located between wells RW-5R and HC-111 and their associated dissolved phase contaminant plumes, was sampled semi-annually during the 2020/2021 groundwater program. The TPH-O concentration in well B-19 was reported at an estimated 0.15 mg/L in March 2021 and non-detect in September 2021.

TPH-O was detected in sentinel well FW-5R during the December 2020 (an estimated 0.30 mg/L) and March 2021 (an estimated 0.30 mg/L) monitoring events. TPH-O was also detected at T-2 in December 2020 (an estimated 0.17 mg/L). TPH-O was not detected in any of the surface water compliance wells during the 2020/2021 groundwater program.

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 2020/2021 groundwater program and ranged in concentrations from 0.0015 mg/L (June 2021 and September 2021) to 0.0021 mg/L (March 2021).

2.4.1.6 Lead

The results for lead during the 2021 annual sampling event (collected in September 2021) 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 FW-3 (an estimated 0.00024 mg/L), T-3 (an estimated 0.00022 mg/L), and RR-5 (an estimated 0.00046 mg/L). The lead concentrations in the remaining wells were less than the method detection limit.

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 wells DMW-3 and FW-13 at concentrations ranging from an estimated 0.072 mg/L (FW-13, December 2020) to 0.150 mg/L (DMW-3, September 2021). TPH-D was detected in all lower sand unit wells (DMW-1 through DMW-3 and FW-13) at concentrations ranging from an estimated 0.16 mg/L (FW-13 March 2021, June 2021, and September 2021) to 0.89 mg/L (DMW-2, December 2020). TPH-O was detected in well DMW-2 at concentrations ranging from an estimated 0.18 mg/L (March 2021) to an estimated 0.19 mg/L (December 2020).

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 third quarter 2021.

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 2020 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 2020/2021 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	2021 Trend Result		
	Benzene	TPH-G	TPH-D
Upper Sand Unit - Up-gradient Conditions			
B-17B	ND	ND	ND
B-30	ND	ND	ND
B-31	NT	NT	NT
E-21	NT	ND	NT
Upper Sand Unit - In-Plume Conditions			
B-19	NT	NT	NT
B-25	NT	NT	NT
B-34	SD	NT	NT
G-8	NT	NT	NT
G-16	ND	ND	NT
G-18	NT	NT	NT
HC-111	SD	NT	NT
RW-2	NT	NT	NT
RW-5R	NT	NT	NT
RW-8	NT	SD	NT
T-3	NT	NT	NT

Well ID	2021 Trend Result		
	Benzene	TPH-G	TPH-D
Upper Sand Unit - Surface Water Compliance			
E-22	SI	SI	SD
FW-3	ND	NT	NT
FW-4	ND	ND	NT
FW-5R	SD	NT	SD
FW-14	ND	ND	ND
FW-15	ND	ND	NT
RR-1	ND	NT	NT
RR-2	ND	ND	ND
RR-3	ND	ND	ND
RR-4	ND	ND	ND
RR-5	ND	NT	NT
T-2	ND	NT	NT
Lower Sand Unit			
DMW-1	ND	ND	NT
DMW-2	ND	SD	SD
DMW-3	ND	SI	NT
DMW-4	ND	NT	NT
FW-13	ND	ND	NT

Legend

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

Isoconcentration contours presented on Figures 3 through 6 and previous annual evaluation reports indicate that the benzene plume has shrunk in the shoreline area. Benzene results have been above the surface water and groundwater cleanup levels for the last several years 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 DMW-2 and RW-8 show statistically significant decreasing trends in TPH-G concentrations.
- Wells DMW-3 and E-22 show statistically significant increasing trends in TPH-G concentrations.
- The following wells showed no apparent trend in TPH-G concentrations: B-19, B-25, B-31, B-34, DMW-4, FW-3, FW-5R, G-8, G-18, HC-111, RR-1, RR-5, RW-2, RW-5R, T-2, and T-3.
- The remaining wells (B-17B, B-30, DMW-1, E-21, FW-4, FW-13, FW-14, FW-15, G-16, RR-2 through RR-4) were determined to be non-detect due to a predominance of non-detect samples.

Isoconcentration contours presented on Figures 7 through 10 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 DMW-2, E-22, and FW-5R 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-19, B-25, B-31, B-34, DMW-1, DMW-3, DMW-4, E-21, FW-3, FW-4, FW-13, FW-15, G-8, G-16, G-18, HC-111, RR-1, RR-5, RW-2, RW-5R, RW-8, T-2, and T-3.
- The remaining wells (B-17B, B-30, FW-14, RR-2 through RR-4) were determined to be non-detect due to a predominance of non-detect samples.

The isoconcentration contours presented on Figures 11 through 14 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. Although six wells indicated a recent change to an increasing or decreasing trend for benzene, TPH-G or TPH-D, the concentrations observed during the 2020/2021

groundwater sampling program in this well were similar to concentrations observed over the course of the program. 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 September 2020 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 October 2006 through September 2021. Temperature is not included in Table 4 due to a lack of historic temperature values; however, temperature measurements from the 2020/2021 quarterly 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 [°C] to 25 °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).

<u>Temperature</u>

Temperatures measured in Site wells are consistently within the range amenable for biodegradation. During the 2020/2021 quarterly events, temperature at each well was within 7.5 °C to 24 °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 2020/2021 quarterly events, pH values were within the range of 6 to 9, with the exception of well T-2 during the June (5.80) and September (5.94) 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

Mn^{4+} is also an electron acceptor under reducing conditions with the metabolic by-product, water-soluble Mn^{2+}, increasing as a result of biodegradation. The manganese reduction process occurs under anaerobic conditions only. To sample for soluble manganese, or Mn^{2+}, 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 Mn^{2+} 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. 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 September 2021 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 September 2021 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^o 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	⇩
	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_2S	SO_4^{-2}	⇩	CO_2 ⇧	- 220	
	Carbon Dioxide (CO_2)	Methane (CH_4)	CH_4	⇧	CO_2 ⇧	- 240	Least Preferred

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 September 2021 sampling event. The DO concentrations were generally low (below 2 mg/L) or non-detect, except for wells DMW-1 (3.25 mg/L in September 2021). The ORP values were below -100 mV, except FW-13 (51 mV in March 2021) indicating anaerobic conditions are largely present. Nitrate was not detected in any of the wells. The Fe^{2+} concentrations were greater than up-gradient upper sand unit well B-30 and were within the range of wells in the upper sand unit dissolved phase contaminant plume. Sulfate was not detected in DMW-1 but was detected in the remaining lower sand unit wells ranging from an estimated 0.18 mg/L in FW-13 to 500 mg/L in DMW-2. Alkalinity results were also greater than up-gradient upper sand unit wells B-17B and B-30 and within range of wells in the upper sand unit dissolved phase contaminant plume.

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 substantially contributing to the continued attenuation of the petroleum hydrocarbons in groundwater. While the non-detect 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 (2020) annual report, the restoration time frame analysis for the 2021 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 2016 through third quarter 2021 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 third quarter 2021 allowing for an actual restoration time to be generated using the Ecology Tool Package Module 2. For HC-111, the restoration time was 1.84 years from October 2018 (August 2020) to reach the site-specific groundwater cleanup level of 0.16 mg/L based on the average results of the data set for the well. However, benzene concentrations in HC-111 have not exceeded the groundwater cleanup level since December 2018.
- Restoration time frame could not be calculated at wells B-25, B-34, or 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 for all three wells.
- 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 89% confidence interval using the

Mann-Kendall non-parametric statistical analysis. The Mann-Kendall analysis derived an estimated half-life of 396 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 2020/2021 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 of 1.84 years from the October 2018 (August 2020). 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 396 days (October 2022).

However, benzene concentrations in HC-111 have not exceeded the site-specific groundwater cleanup level since December 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-3). 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 quarterly 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 2020/2021 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.

No modifications are proposed for the Performance Monitoring Program for 2021/2022 in this report. 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 2020/2021.

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 2022 is included below:

- Complete vacuum extraction event one month prior to the following quarterly sampling events: March 2022, June 2022, September 2022, and December 2022.
- Remove groundwater from well FW-5R for approximately 2-3 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 2020/2021 Annual Progress Report.

5.1 Conclusions

The following summary and conclusions are based on the results and evaluation of the 2020/2021 groundwater program:

- No free product was detected during any of the quarterly 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.
- A limited number of wells display exceedances of Site cleanup levels. Benzene concentrations exceeded the groundwater cleanup level in well B-25 during the December 2020 and September 2021 monitoring events. Benzene concentrations exceeded the surface water cleanup level in wells B-25, B-34, HC-111, and RW-5R for one or more monitoring events. The remaining wells were either non-detect or detected at concentrations below the surface water cleanup level for benzene.
- 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 2020/2021 groundwater program at relatively low concentration levels.
- Lead was also analyzed during the 2020/2021 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 FW-3, T-3, and RR-5.
- 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. Well E-22 was shown to be significantly increasing. 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 stable or non-detect/low level. Wells E-22 and DMW-3 were shown to be significantly increasing. 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 wells are increasing 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 generated a result of 1.84 years from October 2018 (August 2020). However, benzene concentrations in HC-111 have not exceeded the groundwater cleanup level since December 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 2020/2021.
- 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 2020/2021. Vacuum extraction events for FW-5R will continue during the 2021/2022 sampling year.

5.2 Statement of Limitations

AECOM has prepared this report for use by Shell Oil Products US, ExxonMobil Global Services Company, and Chevron Environmental Management Company. 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
Fourth Quarter 2020 through Third Quarter 2021
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	12/15/2020	NR	NR	NR	NR
14.15	3/31/2021	Well destroyed			
	6/23/2021	Well destroyed			
	9/14/2021	Well destroyed			
B-2	12/15/2020	NR	NR	NR	NR
13.78	3/31/2021	6.84	--	0.00	6.94
	6/23/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
B-6	12/15/2020	NR	NR	NR	NR
14.25	3/31/2021	7.10	--	0.00	7.15
	6/23/2021	NR	--	0.00	NR
	9/14/2021	NR	NR	NR	NR
B-16	12/15/2020	NR	NR	NR	NR
14.40	3/31/2021	7.14	--	0.00	7.26
	6/23/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
B-17B	12/14/2020	6.91	--	0.00	7.25
14.16	3/29/2021	6.52	--	0.00	7.64
	6/23/2021	7.10	--	0.00	7.06
	9/14/2021	7.97	--	0.00	6.19
B-19	12/15/2020	6.76	--	0.00	6.55
13.31	3/30/2021	6.80	--	0.00	6.51
	6/23/2021	7.14	--	0.00	6.17
	9/14/2021	7.35	--	0.00	5.96
B-20	12/14/2020	5.09*	--	0.00	8.39
13.48	3/31/2021	6.90	--	0.00	6.58
	6/23/2021	7.64	--	0.00	5.84
	9/14/2021	NR	NR	NR	NR
B-25	12/14/2020	7.39	--	0.00	6.57
13.96	3/31/2021	7.24	--	0.00	6.72
	6/23/2021	7.75	--	0.00	6.21
	9/13/2021	8.13	--	0.00	5.83
B-30	12/14/2020	7.80	--	1.00	7.46
14.46	3/29/2021	7.50	--	0.00	6.96
	6/23/2021	8.31	--	0.00	6.15
	9/14/2021	NR	NR	NR	NR
B-31	12/14/2020	NR	NR	NR	NR
14.46	3/29/2021	7.26	--	0.00	7.20
	6/23/2021	7.98	--	0.00	6.48
	9/13/2021	8.51	--	0.00	5.95
B-34	12/14/2020	7.85	--	0.00	6.51
14.36	3/30/2021	7.66	--	0.00	6.70
	6/23/2021	8.28	--	0.00	6.08
	9/14/2021	8.43	--	0.00	5.93

Table 1
Summary of Groundwater Elevations and Product Thickness
Fourth Quarter 2020 through Third Quarter 2021
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	12/15/2020	NR	NR	NR	NR
12.09	3/31/2021	5.88	--	0.00	6.21
	6/23/2021	6.29	--	0.00	5.80
	9/14/2021	Well destroyed			
E-6	12/15/2020	NR	NR	NR	NR
12.14	3/31/2021	NR	NR	NR	NR
	6/23/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
E-20	12/14/2020	6.73	--	1.00	18.63
24.56	3/29/2021	6.41	--	0.00	18.63
	6/23/2021	7.08	--	0.00	17.48
	9/13/2021	7.62	--	0.00	16.94
E-21	12/14/2020	7.11	--	1.00	7.82
14.13	3/29/2021	6.72	--	0.00	7.41
	6/23/2021	7.51	--	0.00	6.62
	6/23/2021	8.16	--	0.00	5.97
E-22	12/14/2020	NR	NR	NR	NR
16.74	3/29/2021	10.42	--	0.00	7.41
	6/22/2021	14.50	--	0.00	2.24
	9/13/2021	9.12	--	0.00	7.62
FW-3	12/14/2020	6.91	--	0.00	7.20
14.11	3/30/2021	7.50	--	0.00	6.61
	6/23/2021	7.30	--	0.00	6.81
	9/14/2021	8.15	--	0.00	5.96
FW-4	12/14/2020	7.40	--	0.00	6.81
14.21	3/31/2021	7.60	--	0.00	6.61
	6/23/2021	7.62	--	0.00	6.59
	9/14/2021	8.27	--	0.00	5.94
FW-5R	12/20/2020	6.31	--	0.00	6.47
12.78	3/30/2021	6.45	--	0.00	6.33
	6/23/2021	6.65	--	0.00	6.13
	9/14/2021	7.01	--	0.00	5.77
FW-14	12/14/2020	6.27	--	0.00	6.90
13.17	3/30/2021	7.26	--	1.00	6.71
	6/22/2021	8.16	--	0.00	5.01
	9/14/2021	6.94	--	0.00	6.23
FW-16	12/14/2020	3.72	--	0.00	8.63
12.35	3/31/2021	NR	NR	NR	NR
	6/24/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
G-1	12/14/2020	7.39	--	0.00	6.04
13.43	3/31/2021	7.32	--	0.00	6.11
	6/23/2021	7.68	--	0.00	5.75
	9/14/2021	7.75	--	0.00	5.68

Table 1
Summary of Groundwater Elevations and Product Thickness
Fourth Quarter 2020 through Third Quarter 2021
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	12/15/2020	NR	NR	NR	NR
13.25	3/31/2021	NR	NR	NR	NR
	6/23/2021	NR	NR	NR	NR
	9/14/2021	7.40	--	0.00	5.85
G-16	12/14/2020	6.90	--	0.00	6.33
13.23	3/31/2021	6.70	--	0.00	6.53
	6/23/2021	7.20	--	0.00	6.03
	9/14/2021	NR	NR	NR	NR
G-18	12/15/2020	NR	NR	NR	NR
13.54	3/30/2021	6.91	--	0.00	6.63
	6/23/2021	7.33	--	0.00	6.21
	9/14/2021	7.66	--	0.00	5.88
G-20	12/15/2020	NR	NR	NR	NR
13.11	3/31/2021	6.32	--	0.00	6.79
	6/23/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
HC-108	12/14/2020	8.68	--	0.00	6.62
15.30	3/30/2021	8.18	--	0.00	7.12
	6/23/2021	8.94	--	0.00	6.36
	9/14/2021	9.34	--	0.00	5.96
HC-111	12/14/2020	8.62	--	0.00	6.00
14.62	3/30/2021	7.63	--	0.00	6.99
	6/23/2021	8.29	--	0.00	6.33
	9/14/2021	8.68	--	0.00	5.94
RW-5R	12/14/2020	7.45	--	0.00	6.31
13.76	3/31/2021	7.51	--	0.00	6.25
	6/23/2021	7.95	--	0.00	5.81
	9/14/2021	7.96	--	0.00	5.80
T-2	12/14/2020	4.95	--	0.00	6.67
11.62	3/29/2021	5.48	--	0.00	6.14
	6/23/2021	7.10	--	0.00	4.52
	9/13/2021	5.69	--	0.00	5.93
T-3	12/15/2020	6.48	--	0.00	6.55
13.03	3/29/2021	6.88	--	0.00	6.15
	6/23/2021	6.88	--	0.00	6.15
	9/14/2021	7.32	--	0.00	5.71
RW-26	12/15/2020	NR	NR	NR	NR
11.93	3/29/2021	NR	NR	NR	NR
	6/23/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
RW-28	12/15/2020	NR	NR	NR	NR
14.62	3/31/2021	7.25	--	0.00	7.37
	6/23/2021	10.70	--	0.00	3.92
	9/14/2021	NR	NR	NR	NR

Table 1
Summary of Groundwater Elevations and Product Thickness
Fourth Quarter 2020 through Third Quarter 2021
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	12/15/2020	NR	NR	NR	NR
13.83	3/31/2021	6.60	--	0.00	7.23
	6/23/2021	9.92	--	0.00	3.91
	9/14/2021	NR	NR	NR	NR
MW-2	12/15/2020	NR	NR	NR	NR
13.83	3/31/2021	8.09	--	0.00	5.74
	6/23/2021	8.78	--	0.00	5.05
	9/14/2021	NR	NR	NR	NR
R-5	12/15/2020	NR	NR	NR	NR
11.69	3/31/2021	NR	NR	NR	NR
	6/22/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
RW-1	12/14/2020	5.89	--	0.00	7.05
12.94	3/31/2021	6.44	--	0.00	6.50
	6/22/2021	7.70	--	0.00	5.24
	9/14/2021	6.96	--	0.00	5.98
RW-2	12/14/2020	5.73	--	0.00	7.03
12.76	3/31/2021	6.29	--	0.00	6.47
	6/22/2021	7.69	--	0.00	5.07
	9/14/2021	6.77	--	0.00	5.99
RW-7	12/15/2020	NR	NR	NR	NR
12.46	3/31/2021	NR	NR	NR	NR
	6/22/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
RW-8	12/15/2020	6.32	--	0.00	6.39
12.71	3/29/2021	6.45	--	0.00	6.26
	6/23/2021	6.76	--	0.00	5.95
	9/14/2021	6.80	--	0.00	5.91
RW-9	12/14/2020	5.43	--	0.00	7.16
12.59	3/31/2021	5.92	--	0.00	6.67
	6/23/2021	9.08	--	0.00	3.51
	9/14/2021	NR	NR	NR	NR
RW-12	12/14/2020	6.51	--	0.00	6.70
13.21	3/31/2021	6.55	--	0.00	6.66
	6/23/2021	7.03	--	0.00	6.18
	9/14/2021	7.66	--	0.00	5.55
RW-13	12/14/2020	7.40	--	0.00	6.54
13.94	3/31/2021	7.42	--	0.00	6.52
	6/23/2021	7.75	--	0.00	6.19
	9/14/2021	8.23	--	0.00	5.71
RW-14	12/14/2020	6.82	--	0.00	6.70
13.52	3/31/2021	7.08	--	0.00	6.44
	6/23/2021	7.57	--	0.00	5.95
	9/14/2021	7.74	--	0.00	5.78

Table 1
Summary of Groundwater Elevations and Product Thickness
Fourth Quarter 2020 through Third Quarter 2021
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	12/16/2020	6.53	--	0.00	6.62
13.15	3/31/2021	6.64	--	0.00	6.51
	6/23/2021	7.74	--	0.00	5.41
	9/14/2021	7.98	--	0.00	5.17
RW-17	12/14/2020	5.72	--	0.00	6.57
12.29	3/31/2021	5.76	--	0.00	6.53
	6/23/2021	6.42	--	0.00	5.87
	9/14/2021	6.58	--	0.00	5.71
RW-19	12/14/2020	6.61	--	0.00	6.36
12.97	3/29/2021	6.52	--	0.00	6.45
	6/23/2021	6.93	--	0.00	6.04
	9/14/2021	6.83	--	0.00	6.14
RW-20	12/14/2020	6.42	--	0.00	6.38
12.80	3/29/2021	6.38	--	0.00	6.42
	6/23/2021	6.84	--	0.00	5.96
	9/14/2021	6.78	--	0.00	6.02
RW-22	12/15/2020	NR	NR	NR	NR
12.72	3/31/2021	NR	NR	NR	NR
	6/22/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
RW-24	12/15/2020	NR	NR	NR	NR
13.63	3/31/2021	7.34	--	0.00	6.29
	6/23/2021	7.84	--	0.00	5.79
	9/14/2021	8.04	--	0.00	5.59
FW-15	12/15/2020	NR	NR	NR	NR
NS	3/30/2021	7.36	--	0.00	NS
	6/23/2021	8.10	--	0.00	NS
	9/14/2021	7.80	--	0.00	NS
RR-1	12/15/2020	7.69	--	0.00	7.10
14.79	3/29/2021	9.02	--	0.00	5.77
	6/23/2021	8.72	--	0.00	6.07
	9/14/2021	8.52	--	0.00	6.27
RR-2	12/14/2020	9.17	--	0.00	6.54
15.71	3/30/2021	9.84	--	0.00	5.87
	6/23/2021	9.75	--	0.00	5.96
	9/14/2021	10.50	--	0.00	5.21
RR-3	12/15/2020	NR	NR	NR	NR
15.78	3/31/2021	9.74	--	0.00	6.04
	6/23/2021	9.92	--	0.00	5.86
	9/14/2021	10.84	--	0.00	4.94
RR-4	12/14/2020	7.02	--	0.00	6.17
13.19	3/30/2021	7.42	--	0.00	5.77
	6/22/2021	7.50	--	0.00	5.69
	9/13/2021	7.09	--	0.00	6.10

Table 1
Summary of Groundwater Elevations and Product Thickness
Fourth Quarter 2020 through Third Quarter 2021
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	12/14/2020	9.80	--	0.00	6.73
16.53	3/29/2021	10.53	--	0.00	6.00
	6/22/2021	11.60	--	0.00	4.93
	9/13/2021	10.36	--	0.00	6.17
RR-6	12/14/2020	3.22	--	0.00	8.09
11.31	3/31/2021	4.05	--	0.00	7.26
	6/22/2021	4.84	--	0.00	6.47
	9/14/2021	5.31	--	0.00	6.00
DMW-1	12/15/2020	5.68	--	0.00	8.04
13.72	3/31/2021	11.51	--	0.00	2.21
	6/23/2021	12.77	--	0.00	0.95
	9/14/2021	10.83	--	0.00	2.89
DMW-2	12/14/2020	4.52	--	0.00	8.45
12.97	3/30/2021	10.04	--	0.00	2.93
	6/22/2021	8.73	--	0.00	4.24
	9/14/2021	6.20	--	0.00	6.77
DMW-3	12/14/2020	NR	NR	NR	NR
12.83	3/31/2021	5.60	--	0.00	7.23
	6/23/2021	9.91	--	0.00	2.92
	9/14/2021	9.10	--	0.00	3.73
DMW-4	12/14/2020	5.70	--	0.00	6.02
11.72	3/31/2021	Well destroyed			
	6/23/2021	Well destroyed			
	9/14/2021	Well destroyed			
FW-1	12/14/2020	5.64	--	0.00	7.99
13.63	3/31/2021	6.37	--	0.00	7.26
	6/22/2021	8.49	--	0.00	5.14
	9/14/2021	7.35	--	0.00	6.28
FW-2	12/15/2020	NR	NR	NR	NR
14.32	3/31/2021	NR	NR	NR	NR
	6/23/2021	NR	NR	NR	NR
	9/14/2021	NR	NR	NR	NR
FW-13	12/14/2020	5.03	--	0.00	8.10
13.13	3/31/2021	7.28	--	0.00	5.85
	6/22/2021	10.82	--	0.00	2.31
	9/14/2021	7.32	--	0.00	5.81

Notes:
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 Third Quarter 2021
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	--	--	--	--
Upper Sand Unit										
B-1A	12/19/2006	NS	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	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	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	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	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	NS
B-1A	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
B-1A	12/15/2010	NS	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	NS
B-2	12/15/2010	NS	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	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 U	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	NS
B-6	12/15/2010	NS	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	--

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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	--	--	--	--
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	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	--
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-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	--

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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	--	--	--	--
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	--
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-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

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Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
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	--
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	--

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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	--	--	--	--
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	--
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	--

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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	--	--	--	--
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-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	--
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	--

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Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
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	--
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
			NA							
E-21	2/26/2008	2.560 J	NA	5.31	0.472 U	0.0128	0.00118	0.0766	0.0280	--
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	--

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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	--	--	--	--
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	--
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	--
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	--

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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	--	--	--	--
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-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	--
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	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Third Quarter 2021
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	--	--	--	--
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-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	--

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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	--	--	--	--
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	--
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	--

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Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
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	--
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	--
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	--

Table 2
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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[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	--	--	--	--
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-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	--
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	--

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D Street Petroleum Site

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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-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-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	--
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	--

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Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
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-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	--
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
RW-12	12/15/2010	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	--

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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	--	--	--	--
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	--
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	--
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	--

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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	--	--	--	--
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	--
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
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
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-4	12/19/2006	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
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

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D Street Petroleum Site

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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	--	--	--	--
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-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	0.590	NA	7.0	1.1	0.00081	0.00040 J	0.00052 J	0.00044 U	0.0010
FW-5R	3/12/2019	0.790	NA	6.3	0.99	0.00069	0.00049 J	0.00034 J	0.00044 U	0.0019 H
FW-5R	6/18/2019	0.820	NA	7.0	0.95	0.00081	0.00050 J	0.00040 J	0.00044 U	0.0023
FW-5R	9/9/2019	0.640	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	0.790	NA	4.9	0.39 J	0.00067	0.00038 U	0.00033 J	0.00044 U	0.0012
FW-5R	3/24/2020	0.770	NA	4.9	0.27 J	0.00052	0.00041 J	0.00032 J	0.00044 U	0.0012
FW-5R	6/24/2020	1.100 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	0.980	NA	4.7	0.27 J	0.00084	0.00042 J	0.00037 J	0.00044 U	0.0016
FW-5R	12/14/2020	0.960	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-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	--

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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	--	--	--	--
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-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	--
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	--

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Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
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	0.120	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	0.140 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	0.110 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	0.140 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	--
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	--
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	--
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	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Third Quarter 2021
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	--	--	--	--
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	0.110 J	NA	0.12 J	0.12 U	0.000093 U	0.00031 U	0.00020 U	0.00044 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	--
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	--

Table 2
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Fourth Quarter 2006 through Third Quarter 2021
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	--	--	--	--
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-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	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Third Quarter 2021
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	--	--	--	--
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	--
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	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-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	--

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Fourth Quarter 2006 through Third Quarter 2021
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	--	--	--	--
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	--
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-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	--

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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	--	--	--	--
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-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	--
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	--

Table 2
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Fourth Quarter 2006 through Third Quarter 2021
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	--	--	--	--
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	--
DMW-2	9/25/2013	0.5	NA	0.92	0.24 U	0.0021	0.001 U	0.001 U	0.002 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	0.80	0.24 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	--
DMW-2	6/9/2014	0.50	NA	2.2	0.39	0.017	0.0010 U	0.0010 U	0.0020 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	--
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	0.29	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	0.70	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	0.80	0.0018	0.0010 U	0.0010 U	0.00057 J	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--

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Site-Specific Surface Water Cleanup Level:			15			0.04	5	0.43	--	--
Site-Specific Contingency Trigger Level:			--			0.08	--	--	--	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
DMW-3	6/11/2010	1.3000	5.10 U	1.6	0.25 U	0.022	0.001 U	0.014	0.104	--
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	--
DMW-3	12/15/2010	NS	NS	NS	NS	NS	NS	NS	NS	--
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	--
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	--
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	0.00013 U	0.00014 U	0.00017 J	--
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	--
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	--
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	--
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	--
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	--

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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	--	--	--	--
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	--
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
FW-2	5/7/2007	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	--
FW-2	11/5/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	2/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	5/5/2008	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	--
FW-2	11/7/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	2/23/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	5/11/2009	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	--
FW-2	6/7/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	9/13/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
FW-2	12/15/2010	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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Third Quarter 2021
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	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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
FW-13	6/11/2013	0.089	NA	0.06	0.073	0.001 U	0.001 U	0.001 U	0.002 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	0.28	NA	0.28	0.24 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	--
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	--
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	--
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	0.0030 U	--
FW-13	3/20/2018	0.095 J	NA	0.40	0.42 U	0.00040 U	0.0010 U	0.0010 U	0.0030 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	0.0030 U	--
FW-13	9/19/2018	0.150 U	NA	0.33	0.16 J	0.00040 U	0.0010 U	0.0010 U	0.0030 U	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--

Table 2
Summary of Groundwater Analytical Results
Fourth Quarter 2006 through Third Quarter 2021
D Street Petroleum Site

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 Petroluem Hydrocarbons referenced to gasoline

TPH-D = Total Petroluem Hydrocarbons referenced to diesel

TPH-O&G = Total Petroluem Hydrocarbons referenced to heavy oil and gas

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 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.

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.

ft AMSL = Feet Above Mean Sea Level

B (Qualifier) = Compound was found in the blank and sample.

Table 3
Summary of Lead Analytical Results
Third Quarter 2021
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	9/14/2021	0.00020 U	0.00020 U
	B-19	9/14/2021	0.00020 U	0.00020 U
	B-25	9/14/2021	0.00020 U	0.00020 U
	B-31	9/13/2021	0.00020 U	0.00020 U
	B-34	9/14/2021	0.00035 J	0.00020 U
	E-21	9/13/2021	0.00020 U	0.00020 U
	E-22	9/13/2021	0.00020 U	0.00020 U
	FW-3[a]	9/14/2021	0.00020 J	0.00024 J
	FW-4[a]	9/14/2021	0.00020 U	0.00020 U
	FW-5R[a]	9/14/2021	0.00020 U	0.00020 U
	FW-14[a]	9/14/2021	0.00020 U	0.00020 U
	G-8	9/14/2021	0.00079 J	0.00020 U
	G-18	9/14/2021	0.00020 U	0.00020 U
	HC-111	9/14/2021	0.00020 U	0.00020 U
	RW-2	9/14/2021	0.00029 J	0.00020 U
	RW-5R	9/14/2021	0.00020 U	0.00020 U
	RW-8	9/14/2021	0.00041 J	0.00020 U
	T-2[a]	9/13/2021	0.0012 J	0.00020 U
	T-3	9/14/2021	0.00020 U	0.00022 J
Surface Water Compliance	FW-15	9/14/2021	0.00062 J	0.00020 U
	RR-1	9/14/2021	0.00023 J	0.00020 U
	RR-2	9/14/2021	0.00020 U	0.00020 U
	RR-3	9/14/2021	0.00020 U	0.00020 U
	RR-4	9/13/2021	0.00020 U	0.00020 U
	RR-5	9/13/2021	0.00088 J	0.00046 J
Lower Sand Unit	DMW-1	9/14/2021	0.00020 U	0.00020 U
	DMW-2	9/14/2021	0.00020 U	0.00020 U
	DMW-3	9/14/2021	0.00020 U	0.00020 U
	FW-13	9/14/2021	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 Third Quarter 2021
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

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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
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-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

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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
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-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

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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
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

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-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-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 U
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 J
B-30	9/20/2018	7.04	0.79	89	1.4		20		95		0.0	NA J
B-30	9/9/2019	9.47	0.00	-21	0.057	U	3.3		110		0.0	NA J
B-30	9/23/2020	7.68	0.03	-8	0.15	J	17		99		0.0	NA J
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
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

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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	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-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
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

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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	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
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
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-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

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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)	
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	J
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
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	
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	

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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-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	U
FW-4	9/19/2018	7.08	1.59	-347	100	U	1500		210		0.0	NA	J
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-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	

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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
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
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

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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-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-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-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

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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	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
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-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

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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	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
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-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
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
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

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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	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
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
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

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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
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-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

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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
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-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

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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
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

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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	3/29/2021	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-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
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

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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	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-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
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

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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	
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	
FW-14	9/14/2021	7.42	0.52	-170	6.1	J	1700		84	0.0	0.002	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

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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
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

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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	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-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
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

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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	6/23/2020	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-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-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-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

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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	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
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-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

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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-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
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-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

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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
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-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

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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)
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
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

Table 4
Summary of Natural Attenuation Parameters
Fourth Quarter 2006 through Third Quarter 2021
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	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

Notes:

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.

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	Quarterly	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	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	
B-34	Quarterly	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	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	
RW-2	Annual	BTEX, TPH, lead, NA Parameters[1]	Decrease to annual sampling, Q3 2017
RW-5R	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	
RW-8	Quarterly	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	Quarterly	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	Quarterly	BTEX, TPH, lead, NA Parameters[1,2,3]	sentinel, added Q3 2011
FW-14	Quarterly	BTEX, TPH, lead, NA Parameters[1,2,3]	sentinel
FW-15	Annual	BTEX, TPH, lead, NA Parameters[1]	
RR-1	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	
RR-2	Quarterly	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	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	Added Q3 2011
RR-5	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	Added Q2 2011
RR-6	Removed	-	Removed after Q3 2017
T-2	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	sentinel
Lower Sand Unit			
DMW-1	Annual	BTEX, TPH, lead, NA Parameters[1]	
DMW-2	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	Increased to qtrly sampling Q1 2012
DMW-3	Annual	BTEX, TPH, lead, NA Parameters[1]	
DMW-4	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	
FW-13	Quarterly	BTEX, TPH, lead, NA Parameters[1,2]	

BTEX - benzene, tolune, 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 (Mn^{2+}), and alkalinity. Ferrous iron (Fe^{2+}), 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, Mn^{2+}, alkalinity, and Fe^{2+} will be sampled on an annual basis.
3 = Napthalenes (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

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)
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
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

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)
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
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

0 2,000 4,000 Feet

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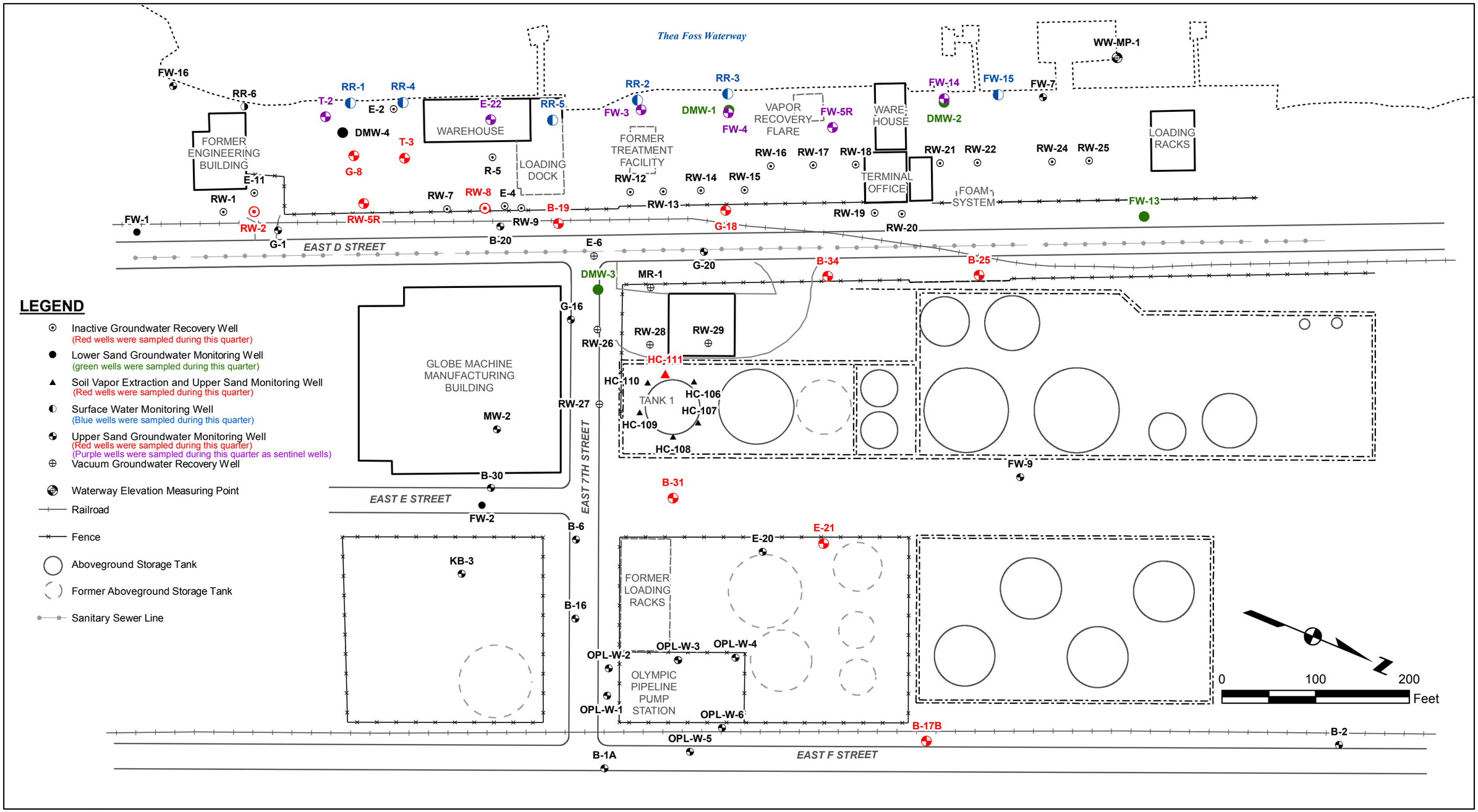
VICINITY MAP

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 1

S:\public\bergeson\25211158 Shell 46194223 Tacoma Terminal\MXD\1Q19\Fig1.mxd



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

SITE MAP

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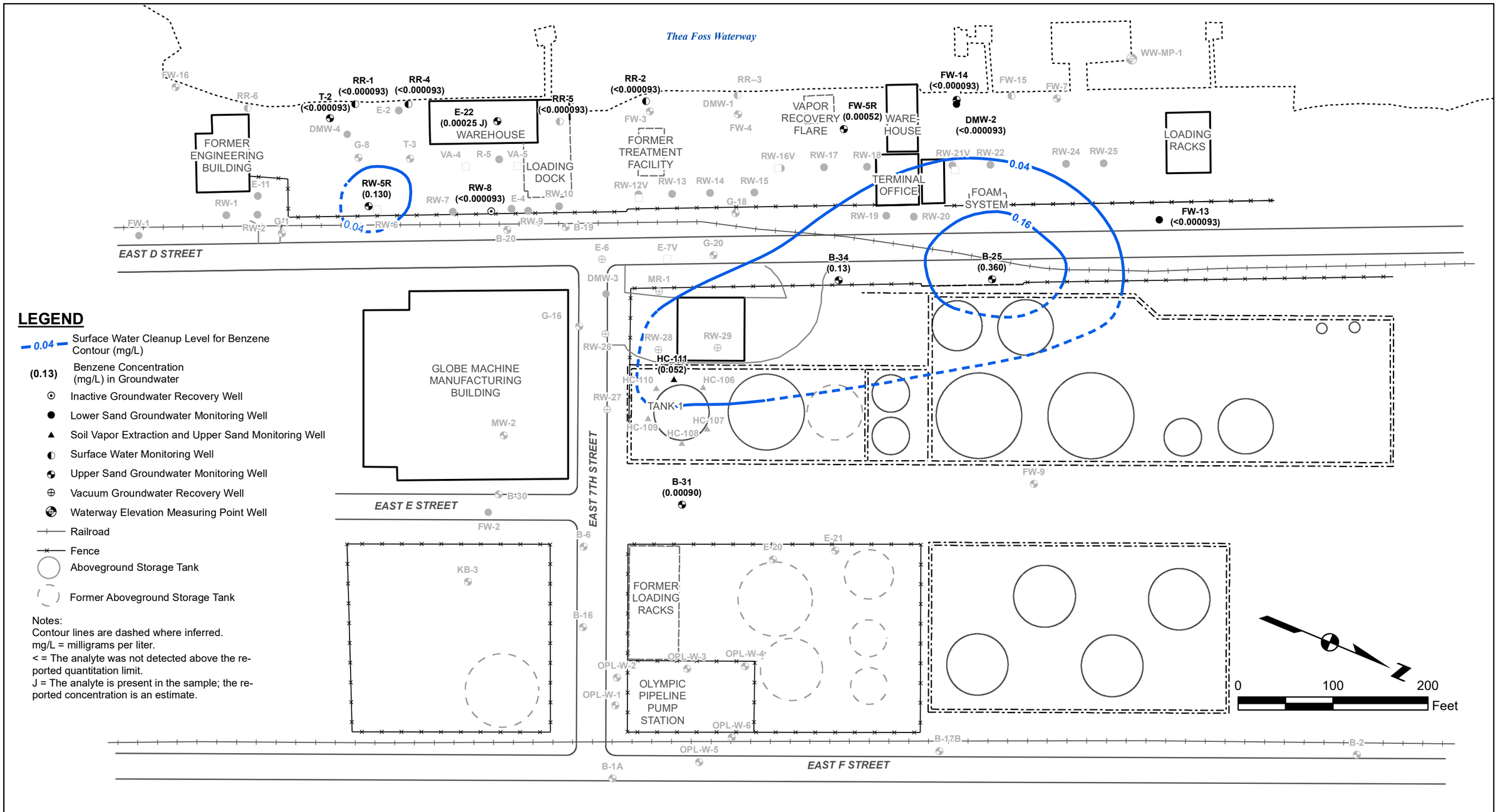
D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 2

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



LEGEND

- 0.04 — Surface Water Cleanup Level for Benzene Contour (mg/L)
- (0.13) Benzene Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.

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

BENZENE CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), DECEMBER 2020

D STREET PETROLEUM SITE
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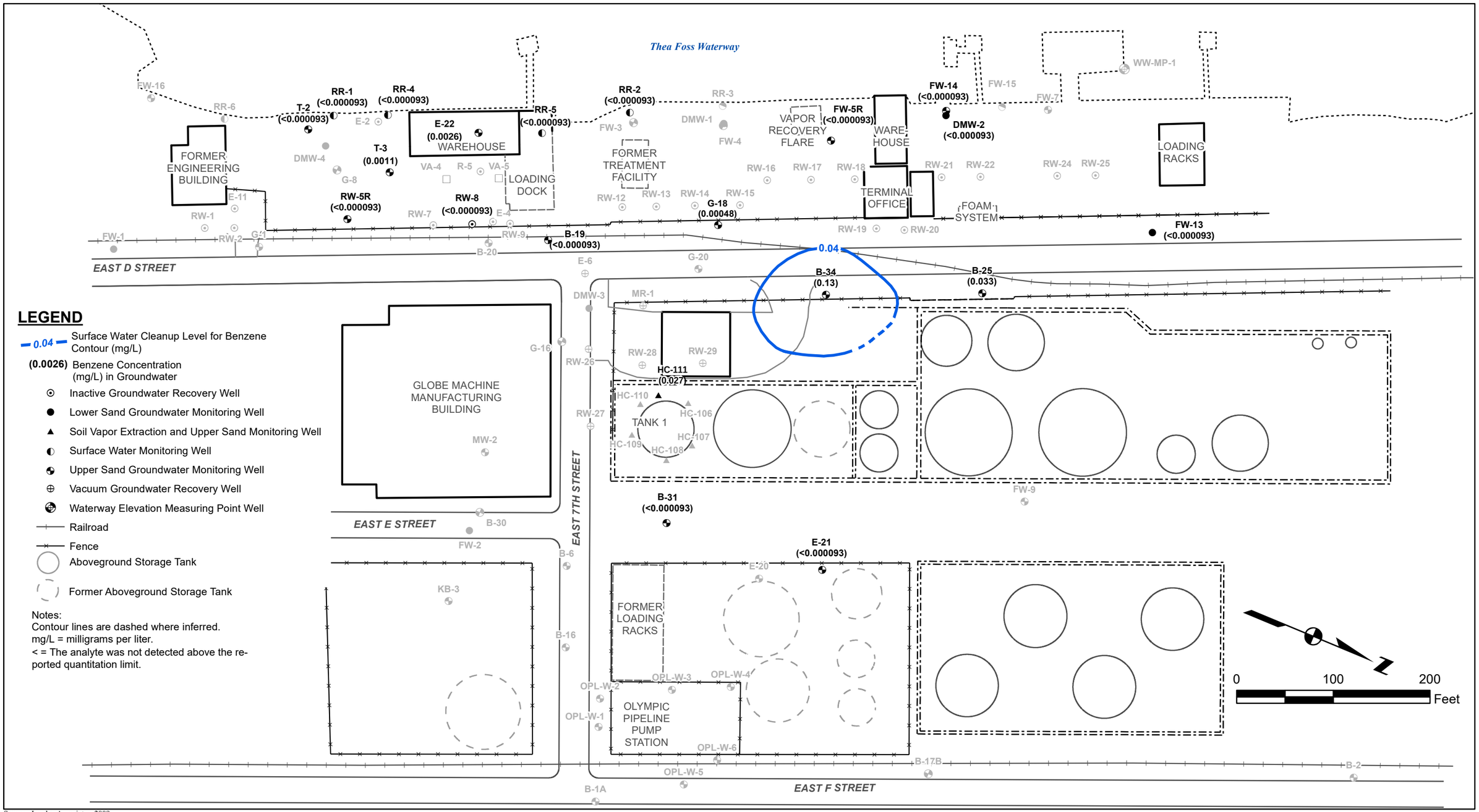
FIGURE 3

C:\Users\Sebastian.Olaru\AECOM\GDS GIS Services - GIS CAD PROJECTS\DCS AMERICAS\SHELL\Washington\501 E 7th St (Tacoma D St.), Tacoma, WA\Sept-08-2021\Workspace\Fig3_4Q20_B.mxd



LEGEND

- 0.04 — Surface Water Cleanup Level for Benzene Contour (mg/L)
- (0.0026) Benzene Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.

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

BENZENE CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), MARCH 2021

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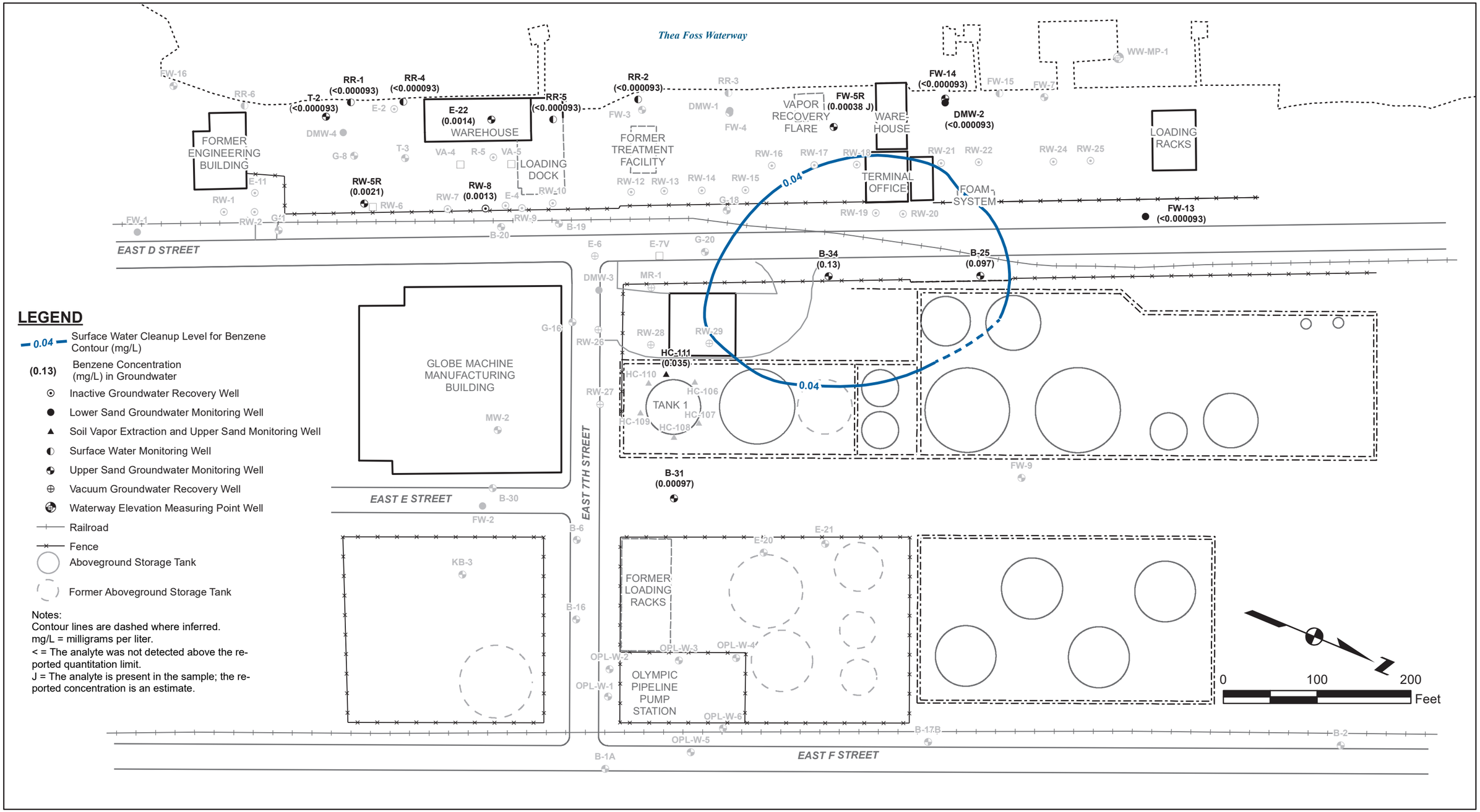
FIGURE 4

C:\Users\Sebastian.Olaru\AECOM\GDS GIS Services - GIS CAD PROJECTS\DCS AMERICAS\SHELL\Washington\501 E 7th St (Tacoma D St.), Tacoma, WA\02 Work\September 29 2021\Edit 10.05.2021\Fig3_3Q20_B.mxd



LEGEND

- 0.04 — Surface Water Cleanup Level for Benzene Contour (mg/L)
- (0.13) Benzene Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.

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

BENZENE CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), JUNE 2021

D STREET PETROLEUM SITE
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FIGURE 5

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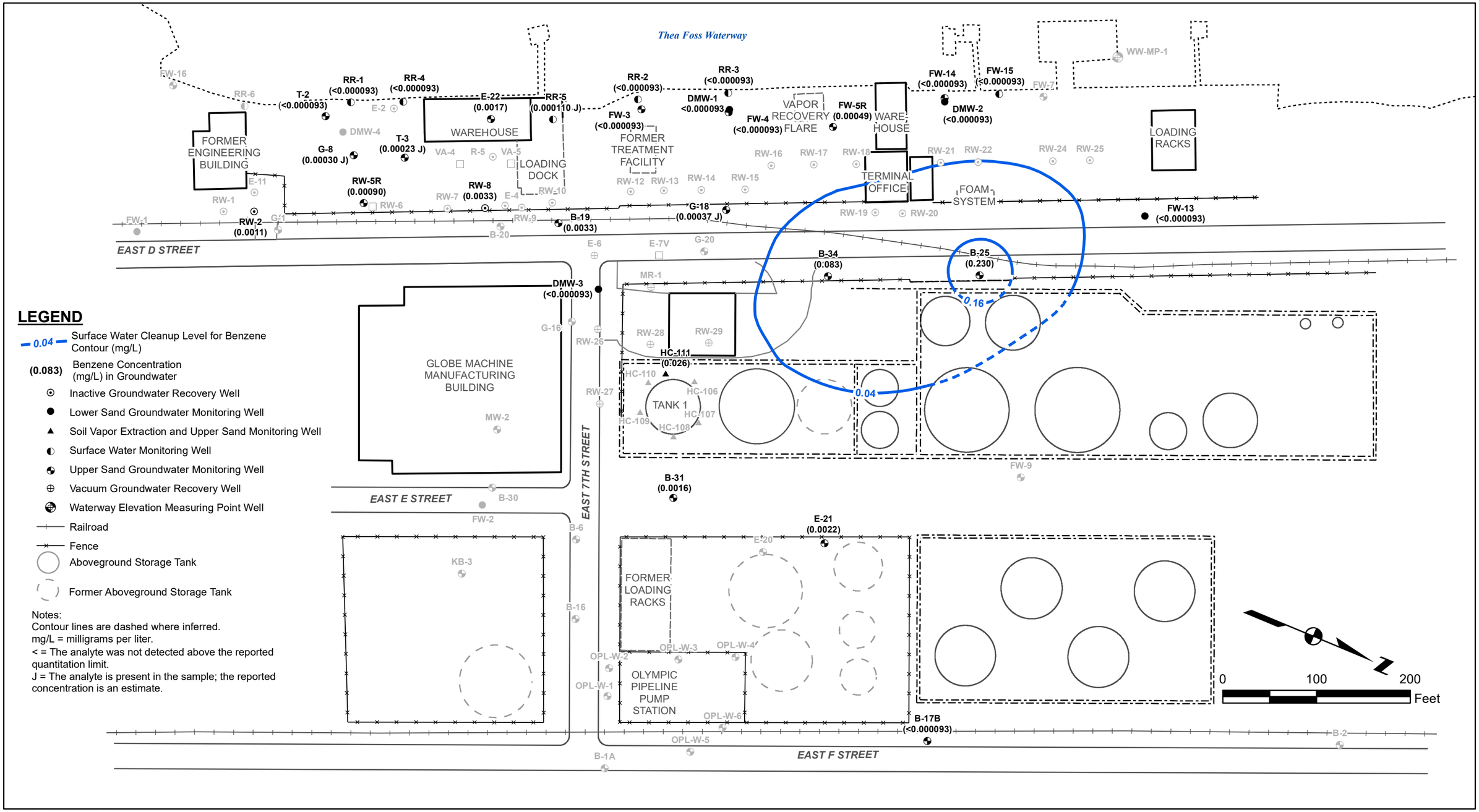

LEGEND

- 0.04 — Surface Water Cleanup Level for Benzene Contour (mg/L)
- (0.083) Benzene Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.

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

BENZENE CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), SEPTEMBER 2021

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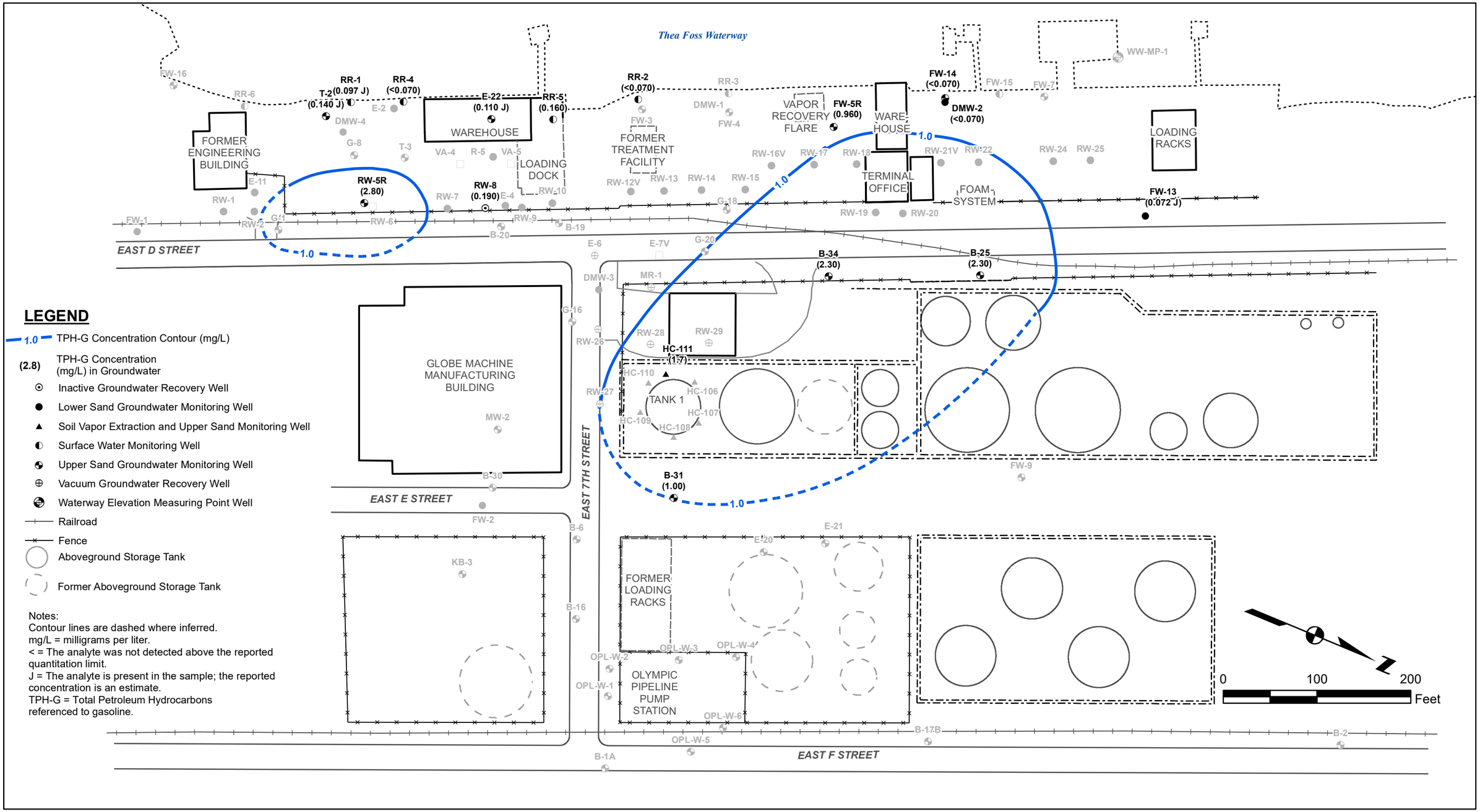
D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 6

C:\Users\CraciunS\AECOM\GDS GIS Services - DCS AMERICAS\SHELL\Washington\501 E 7th St (Tacoma D St.), Tacoma, WA\02 Work\3Q21_15.11.2021\Fig6_3Q21_B_ver1.mxd



LEGEND

- 1.0 — TPH-G Concentration Contour (mg/L)
- (2.8) TPH-G Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-G = Total Petroleum Hydrocarbons referenced to gasoline.

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

TPH-G CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), DECEMBER 2020

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

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FIGURE 7

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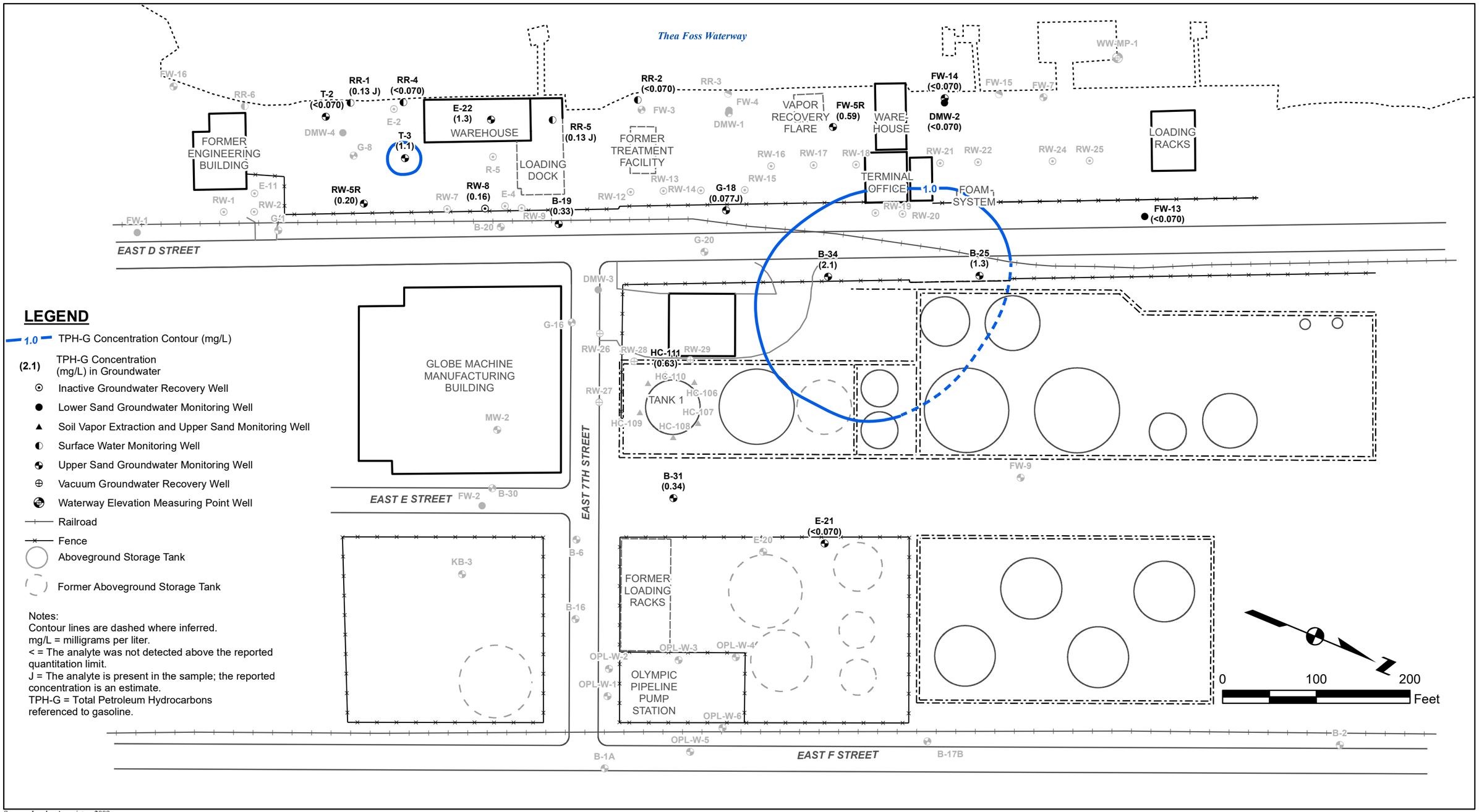

LEGEND

- 1.0 — TPH-G Concentration Contour (mg/L)
- (2.1) TPH-G Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-G = Total Petroleum Hydrocarbons referenced to gasoline.

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

TPH-G CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), MARCH 2021

D STREET PETROLEUM SITE
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FIGURE 8

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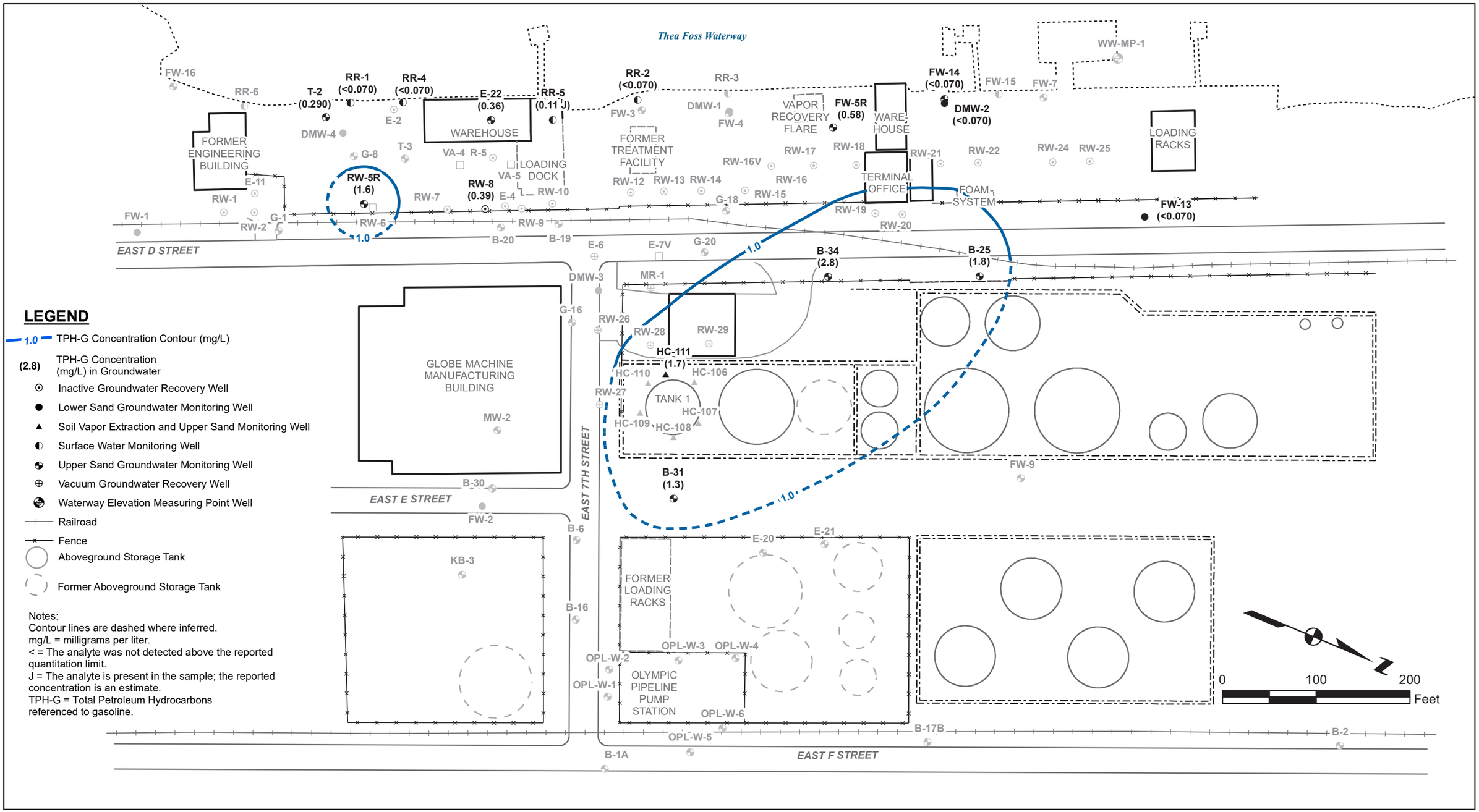

LEGEND

- 1.0 — TPH-G Concentration Contour (mg/L)
- (2.8) TPH-G Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-G = Total Petroleum Hydrocarbons referenced to gasoline.

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

TPH-G CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), JUNE 2021

D STREET PETROLEUM SITE
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FIGURE 9

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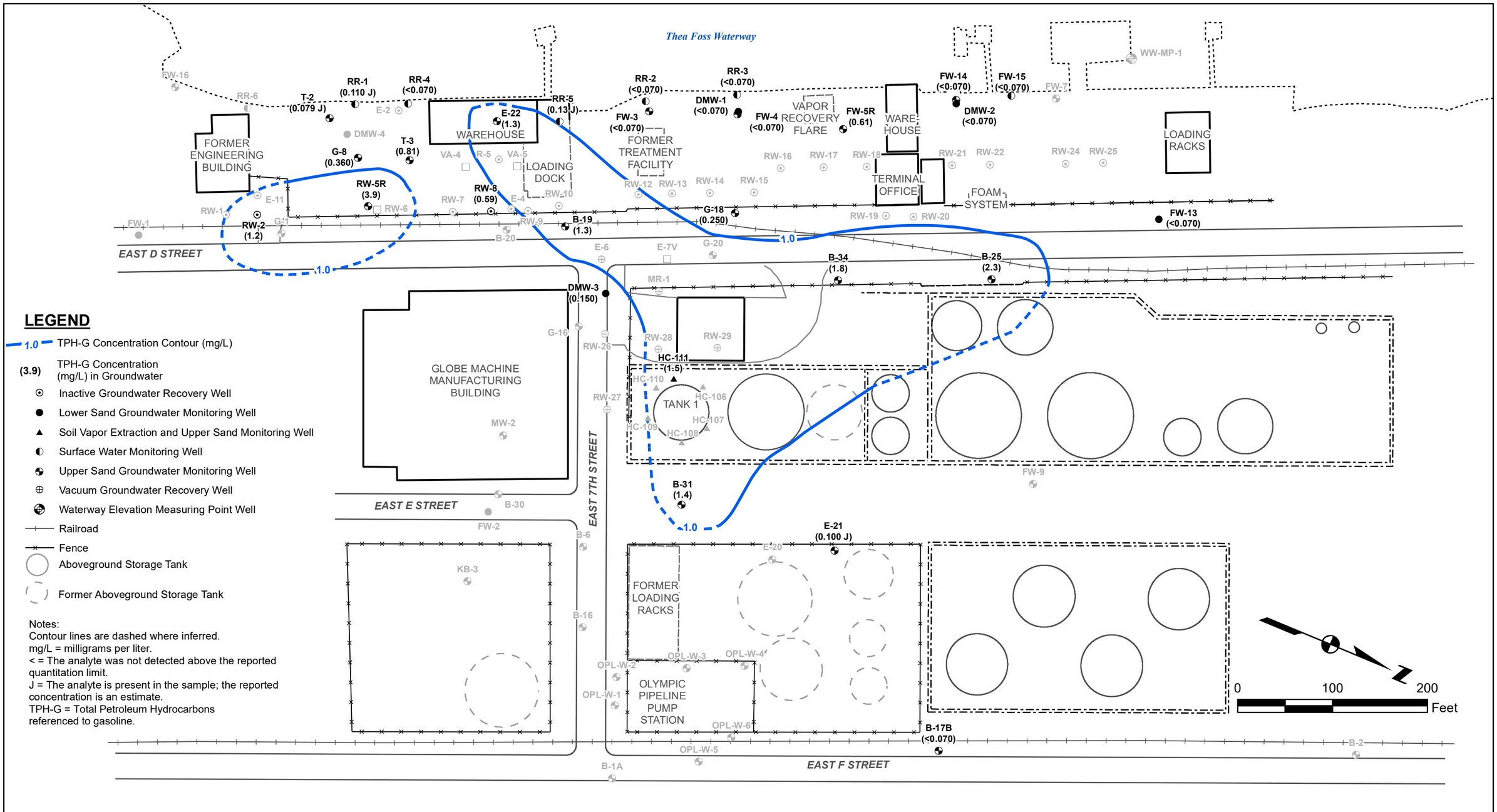

LEGEND

- 1.0 — TPH-G Concentration Contour (mg/L)
- (3.9) TPH-G Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-G = Total Petroleum Hydrocarbons referenced to gasoline.

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

TPH-G CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), SEPTEMBER 2021

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FIGURE 10

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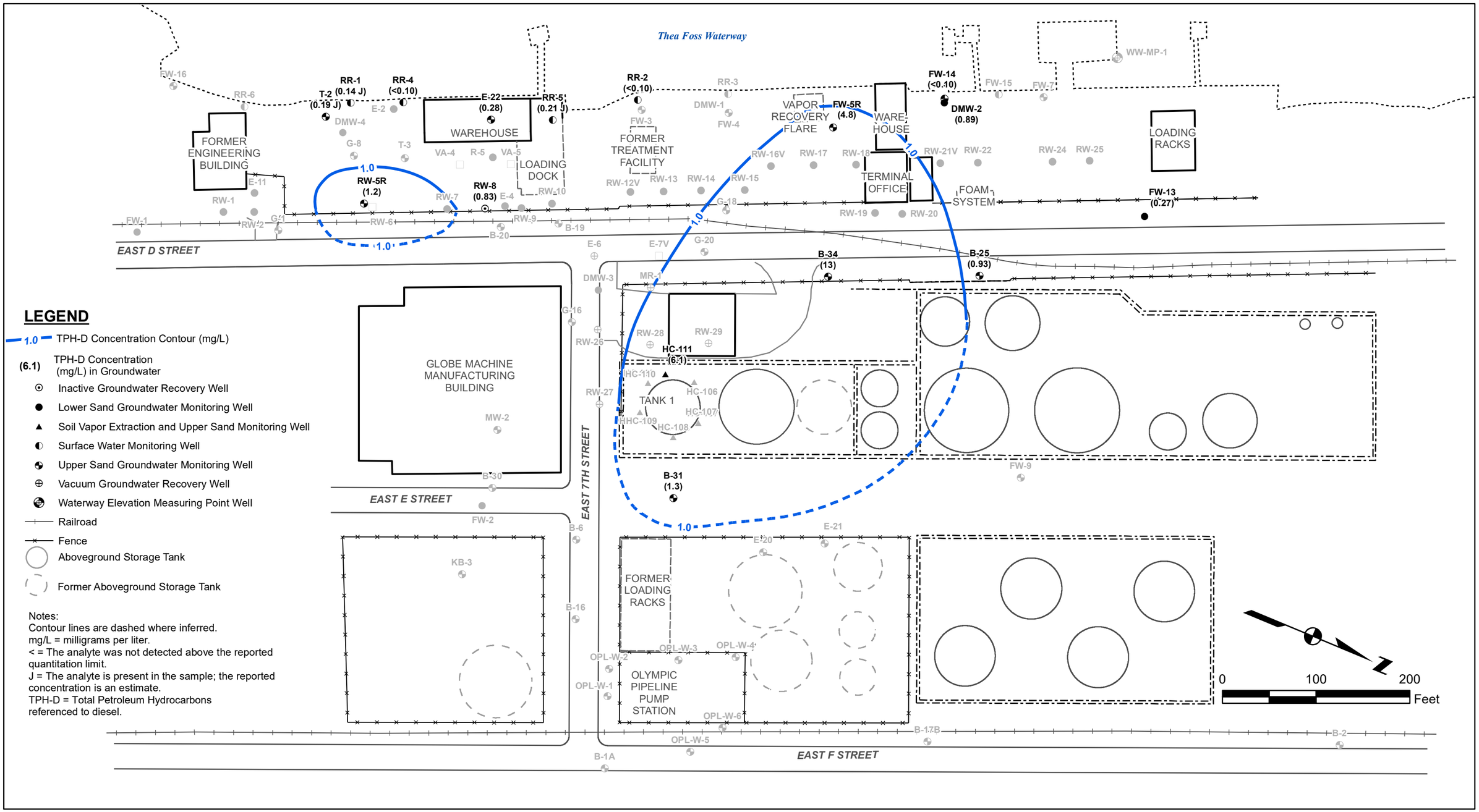

LEGEND

- 1.0 — TPH-D Concentration Contour (mg/L)
- (6.1) TPH-D Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-D = Total Petroleum Hydrocarbons referenced to diesel.

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

TPH-D CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), DECEMBER 2020

D STREET PETROLEUM SITE
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FIGURE 11

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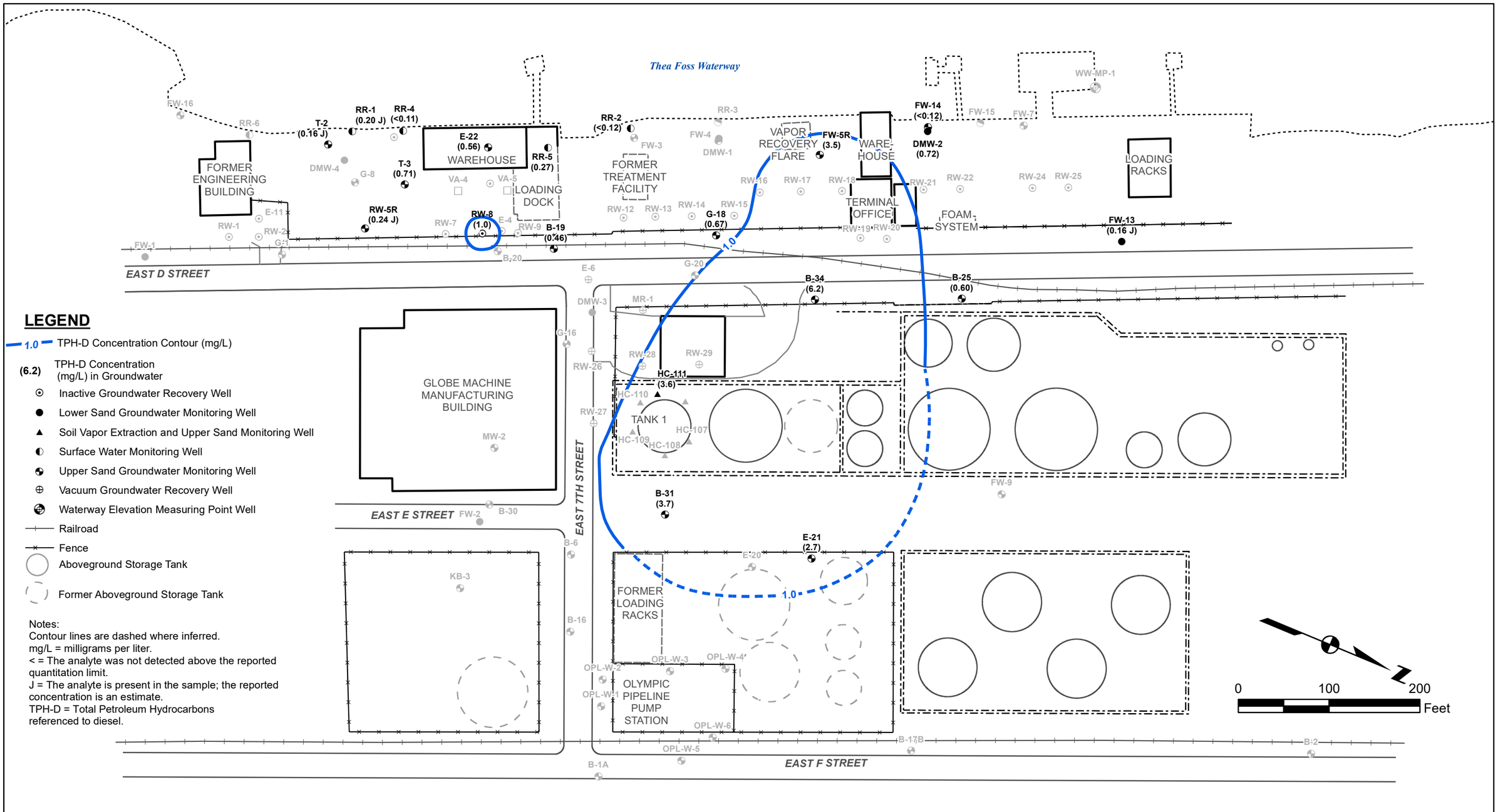

LEGEND

- 1.0 TPH-D Concentration Contour (mg/L)
- (6.2) TPH-D Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-D = Total Petroleum Hydrocarbons referenced to diesel.

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

TPH-D CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), MARCH 2021

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

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FIGURE 12

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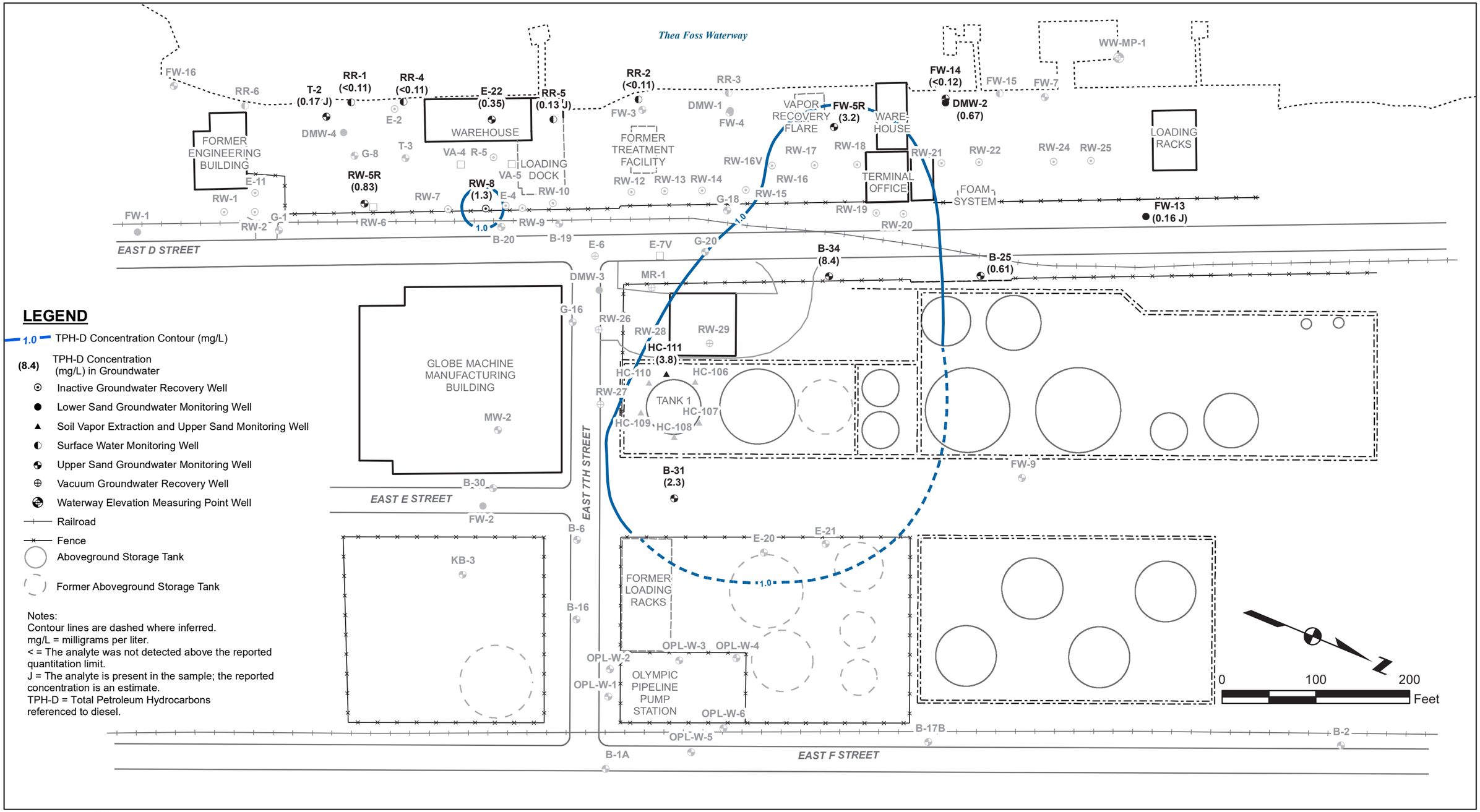

LEGEND

- 1.0 TPH-D Concentration Contour (mg/L)
- (8.4) TPH-D Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-D = Total Petroleum Hydrocarbons referenced to diesel.

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

TPH-D CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), JUNE 2021

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D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 13

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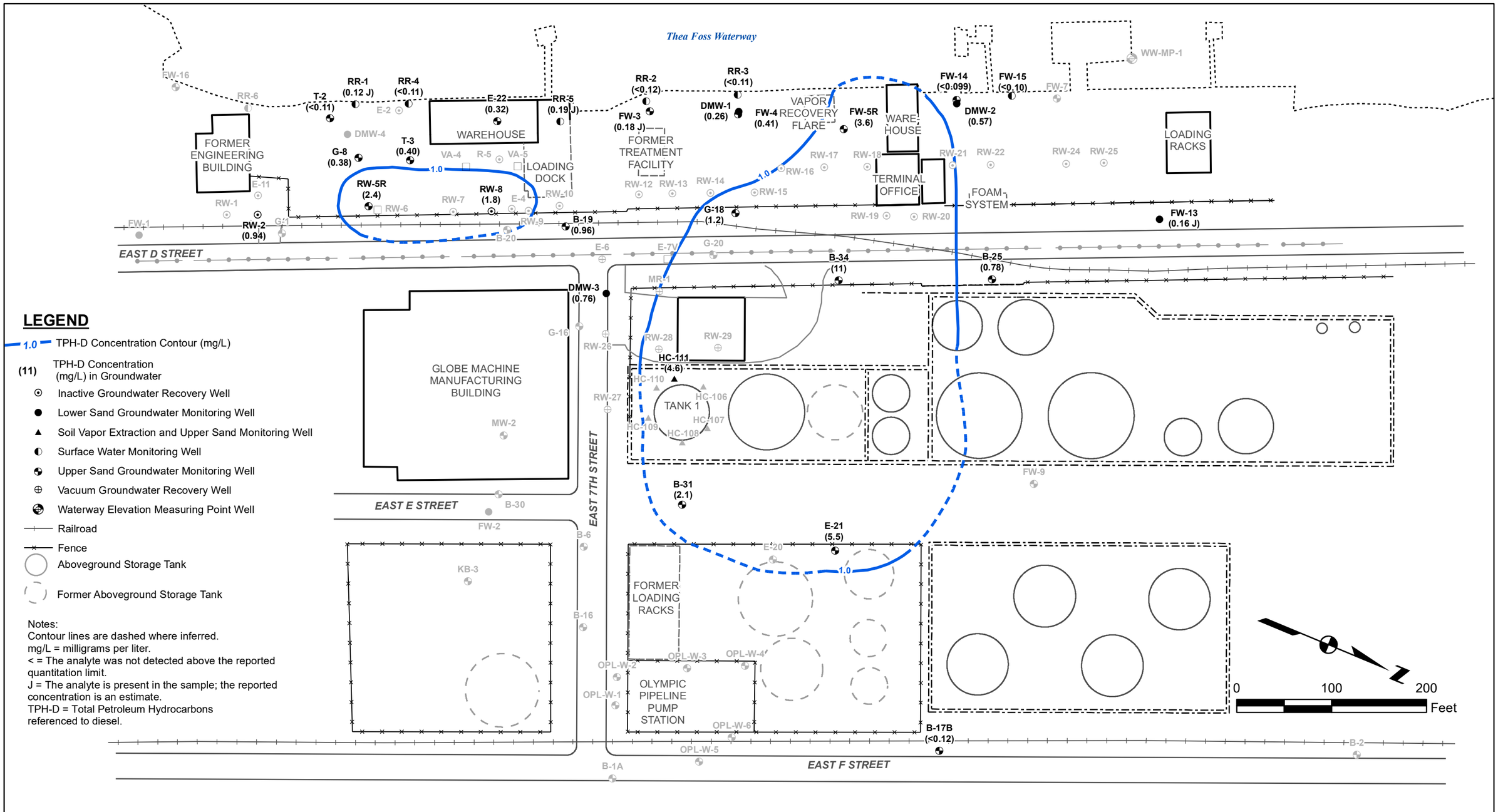

LEGEND

- 1.0 TPH-D Concentration Contour (mg/L)
- (11) TPH-D Concentration (mg/L) in Groundwater
- Inactive Groundwater Recovery Well
- Lower Sand Groundwater Monitoring Well
- Soil Vapor Extraction and Upper Sand Monitoring Well
- Surface Water Monitoring Well
- Upper Sand Groundwater Monitoring Well
- Vacuum Groundwater Recovery Well
- Waterway Elevation Measuring Point Well
- Railroad
- Fence
- Aboveground Storage Tank
- Former Aboveground Storage Tank

Notes:
Contour lines are dashed where inferred.
mg/L = milligrams per liter.
< = The analyte was not detected above the reported quantitation limit.
J = The analyte is present in the sample; the reported concentration is an estimate.
TPH-D = Total Petroleum Hydrocarbons referenced to diesel.

0 100 200 Feet

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

TPH-D CONCENTRATIONS IN GROUNDWATER (UPPER SAND UNIT), SEPTEMBER 2021

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

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FIGURE 14

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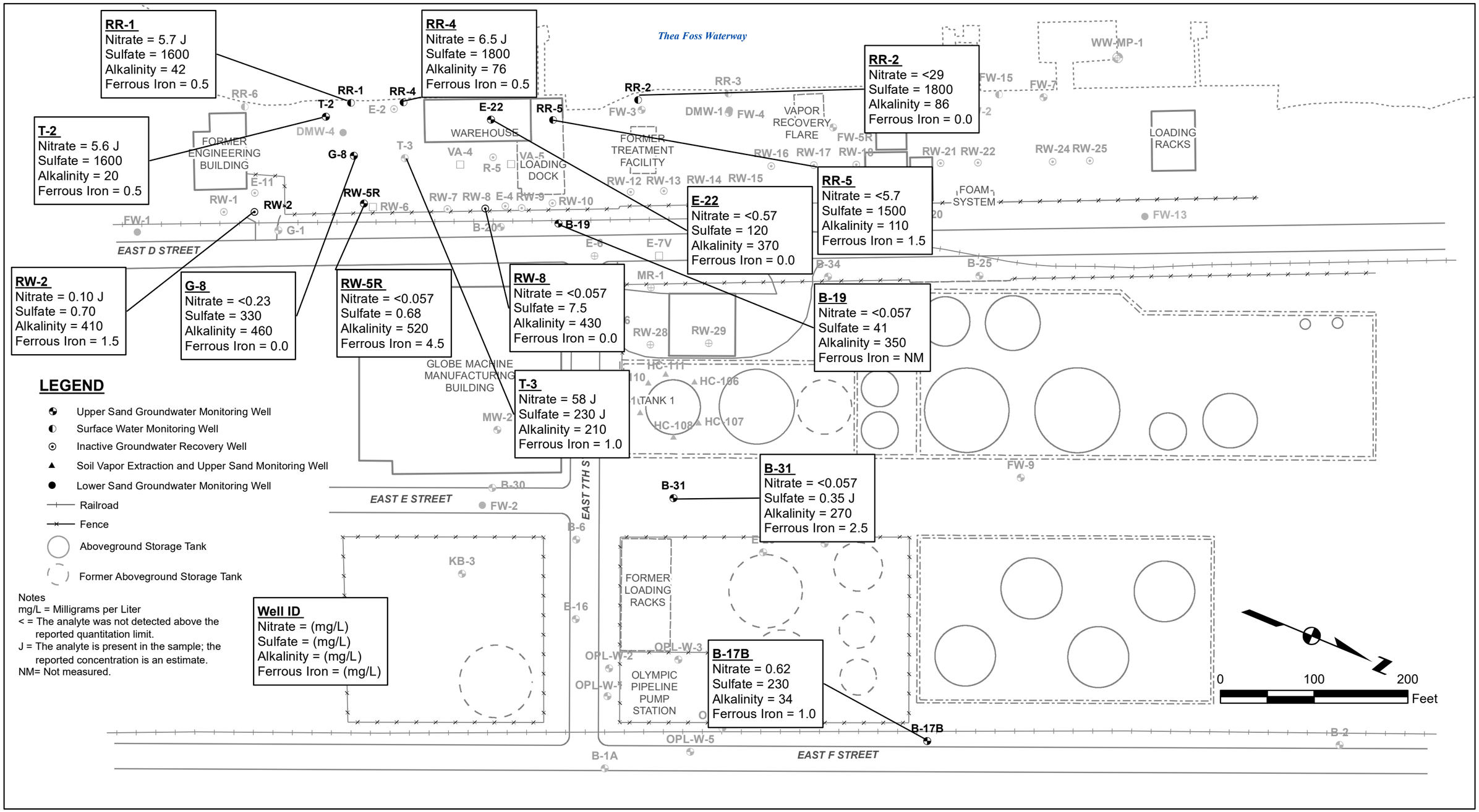

Source: Landau Associates, 2009.
Maul Foster & Alongi, Inc. 2002.
USGS, 2009.

MNA PARAMETERS IN GROUNDWATER SEPTEMBER 2021 - RW-5R PLUME

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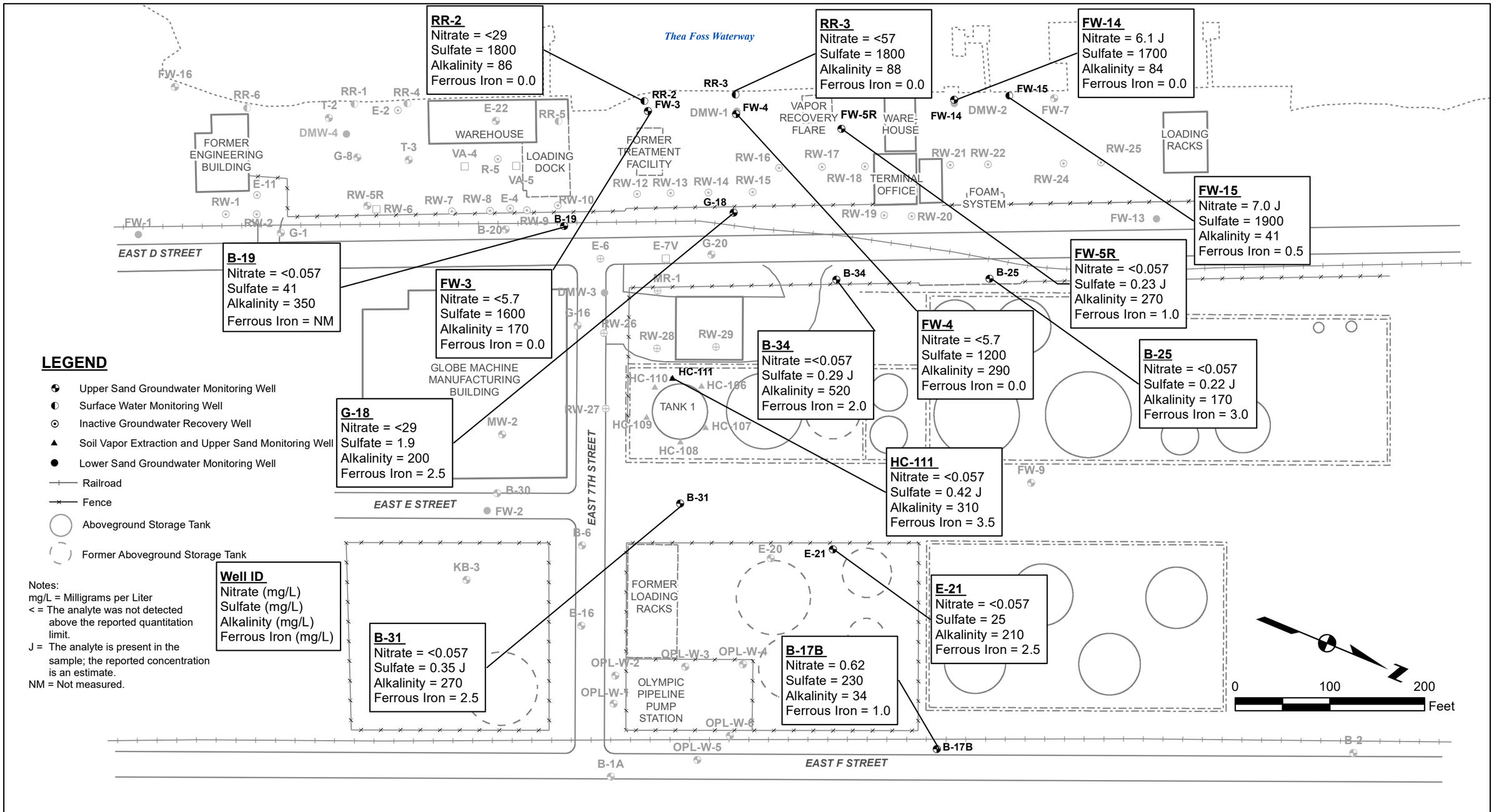
D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 15

C:\Users\CraciunS\AECOM\GDS GIS Services - DCS AMERICAS\SHELL\Washington\501 E 7th St (Tacoma D St.), Tacoma, WA\02.Work\3Q21_11.04.2021\Fig15_3Q21_D.mxd



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

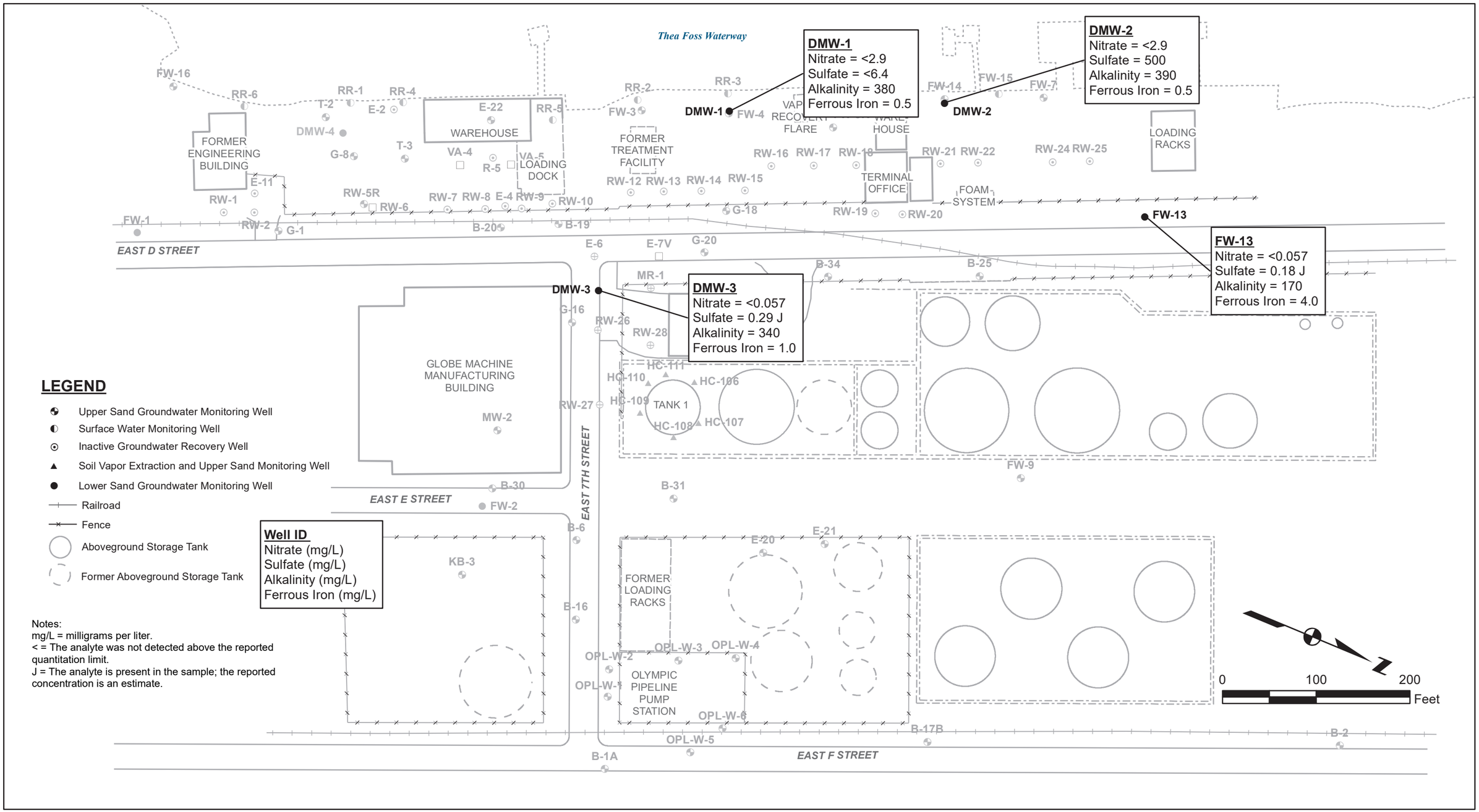
MNA PARAMETERS IN GROUNDWATER SEPTEMBER 2021 - HC-111 PLUME

AECOM

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

FIGURE 16

C:\Users\CraciunS\AECOM\GDS GIS Services - DCS AMERICAS\SHELL\Washington\501 E 7th St (Tacoma D St.), Tacoma, WA\02.Work\3Q21_11.04.2021\Fig16_3Q21.mxd



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

MNA PARAMETERS IN GROUNDWATER SEPTEMBER 2021 - LOWER SAND UNIT

D STREET PETROLEUM SITE
TACOMA, WASHINGTON

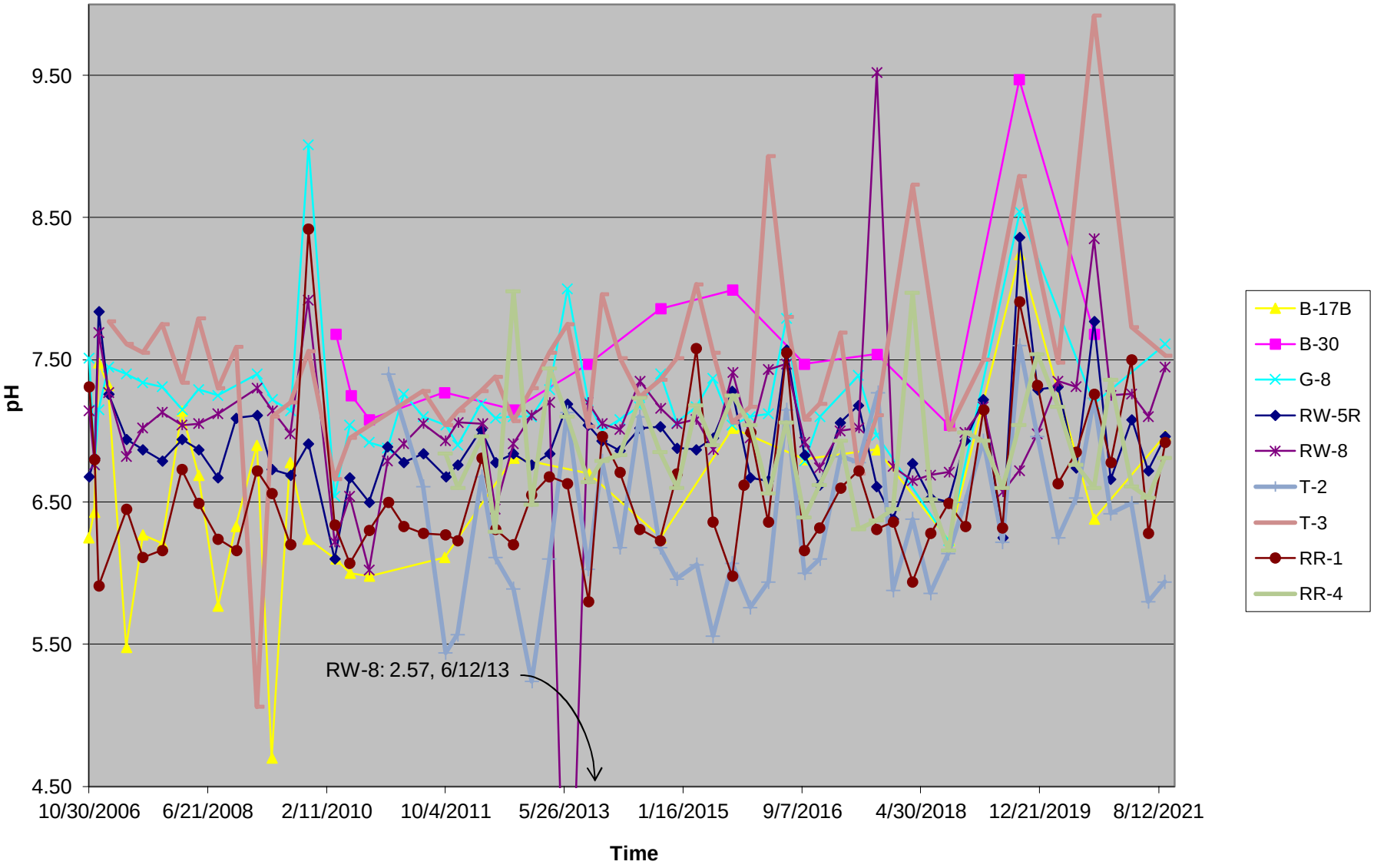
AECOM

FIGURE 17

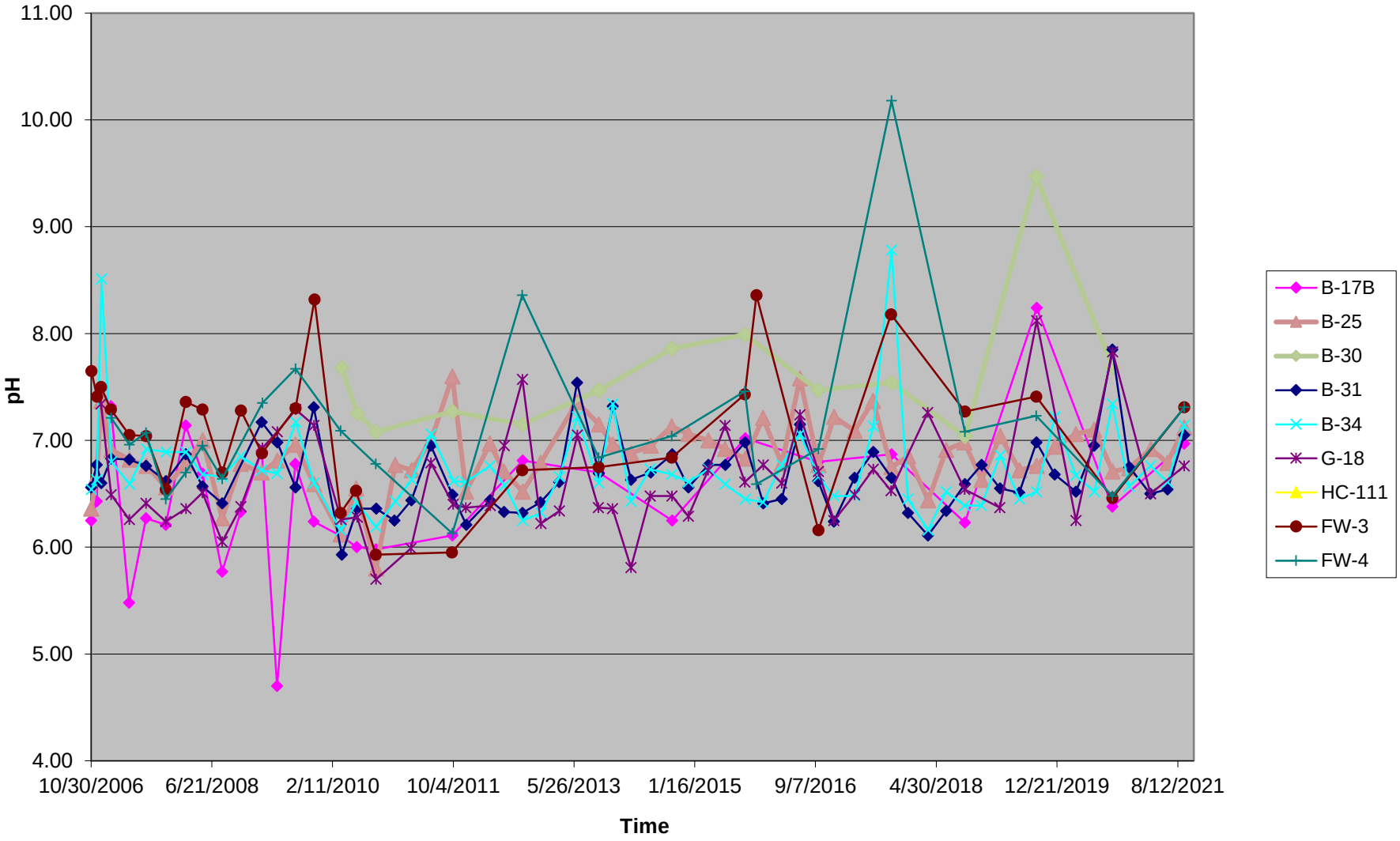
C:\Users\alinateodora.paun\AECOM Directory\GDS GIS Services - SHELL\Washington\501 E 7th St (Tacoma D St.), Tacoma, WA\02.Work\3Q21_11.04.2021\Fig17_3Q21.mxd

Graphs

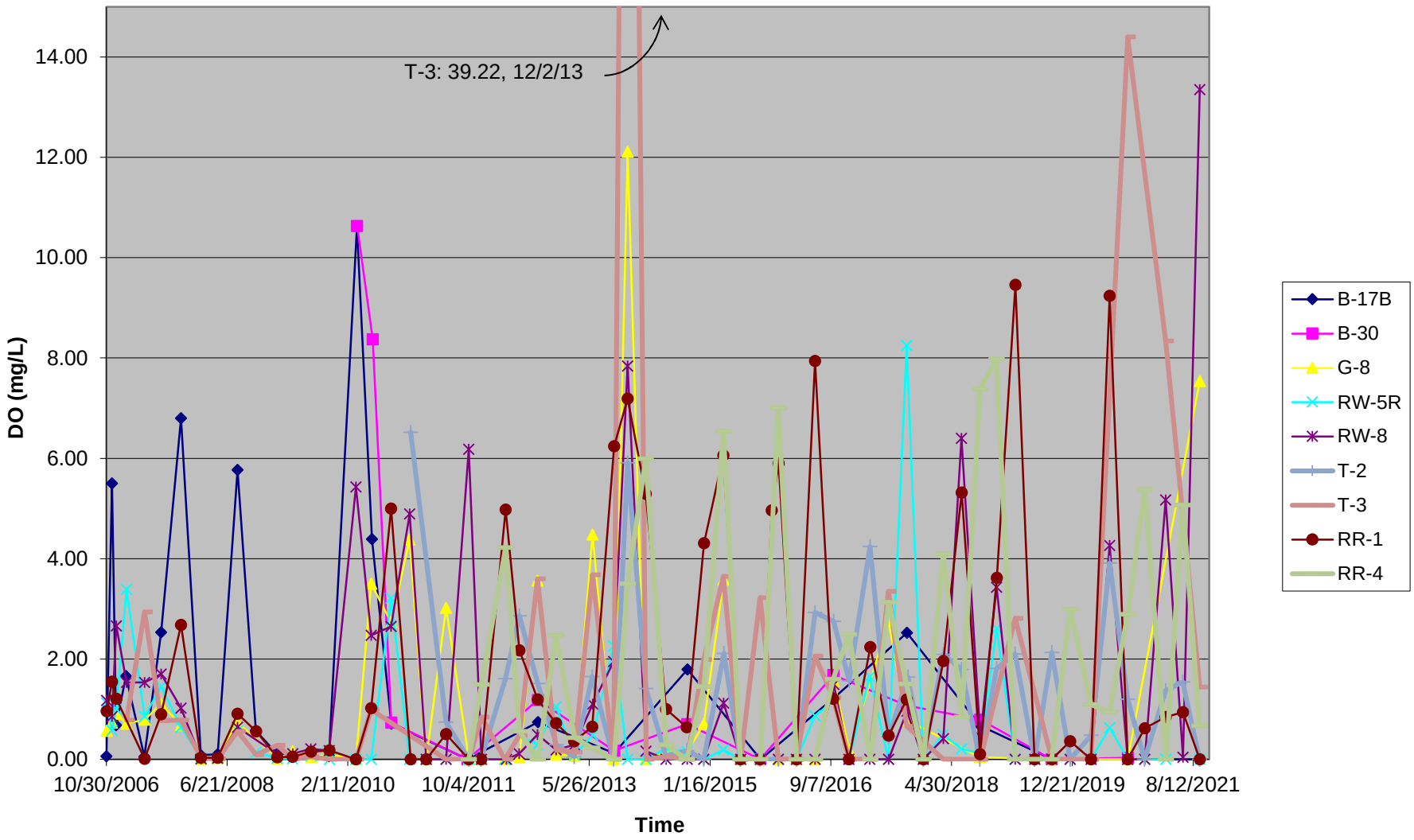
Graph 1 pH Time Series - RW-5R Plume



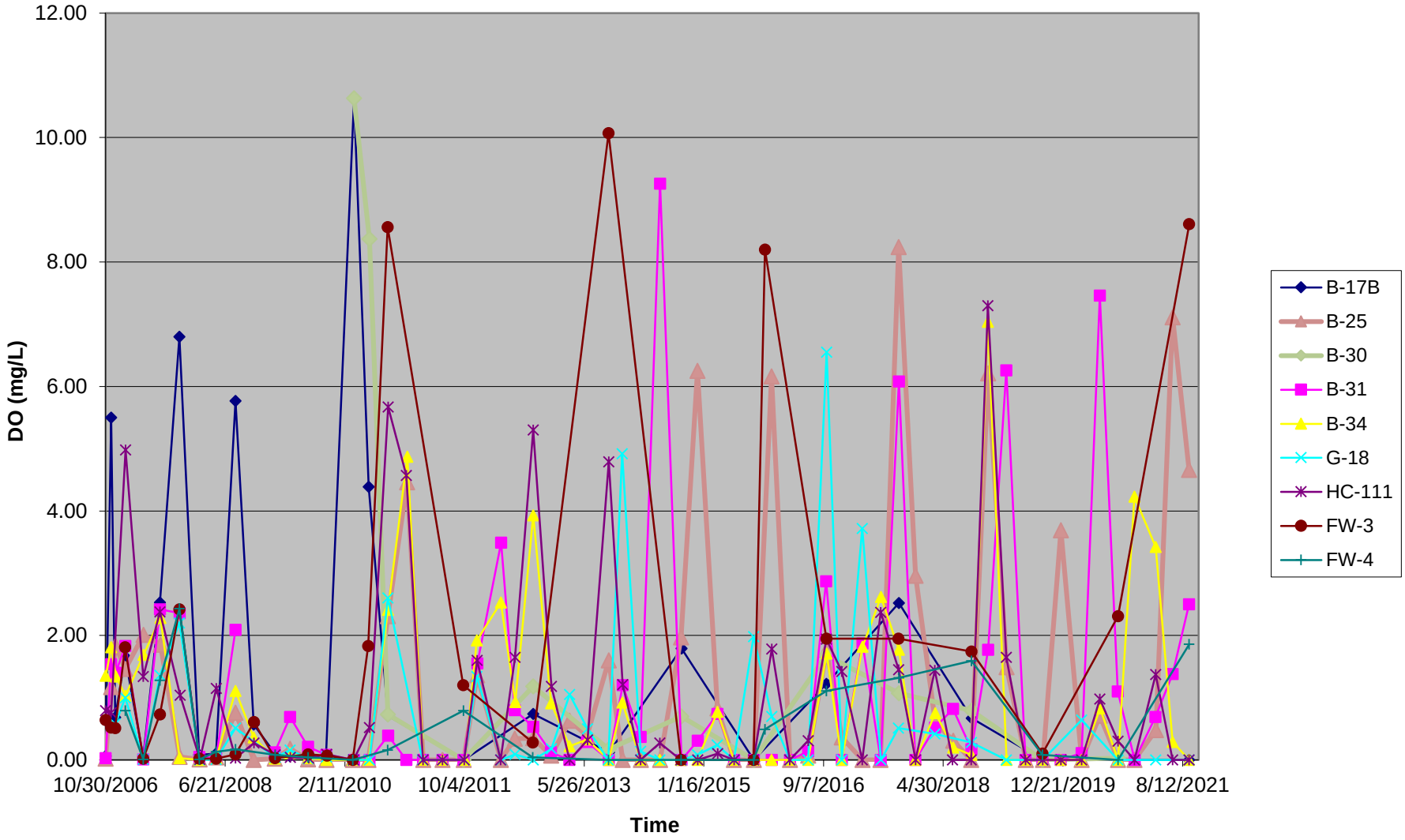
Graph 2 pH Time Series - HC-111 Plume



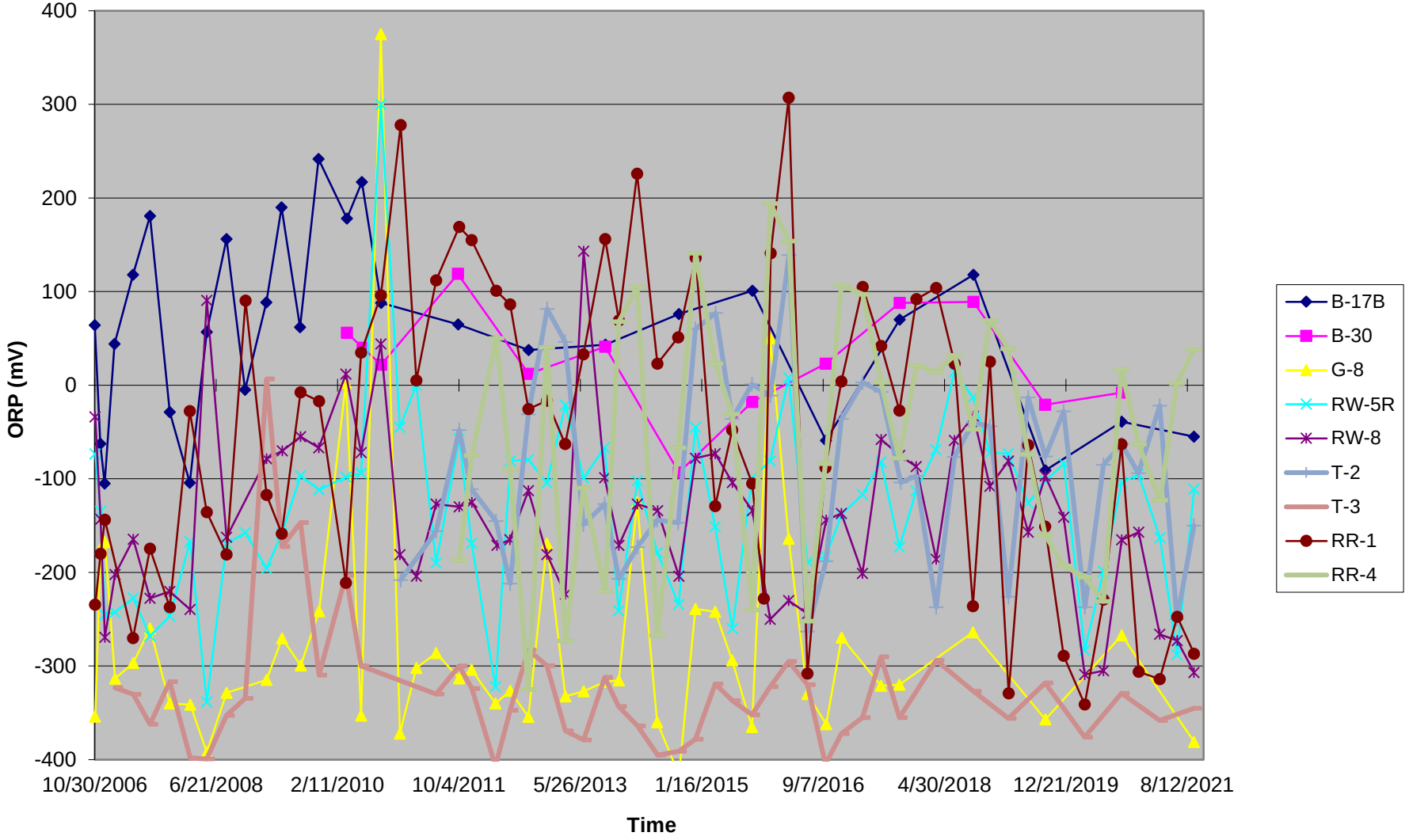
Graph 3 Dissolved Oxygen Time Series - RW-5R Plume



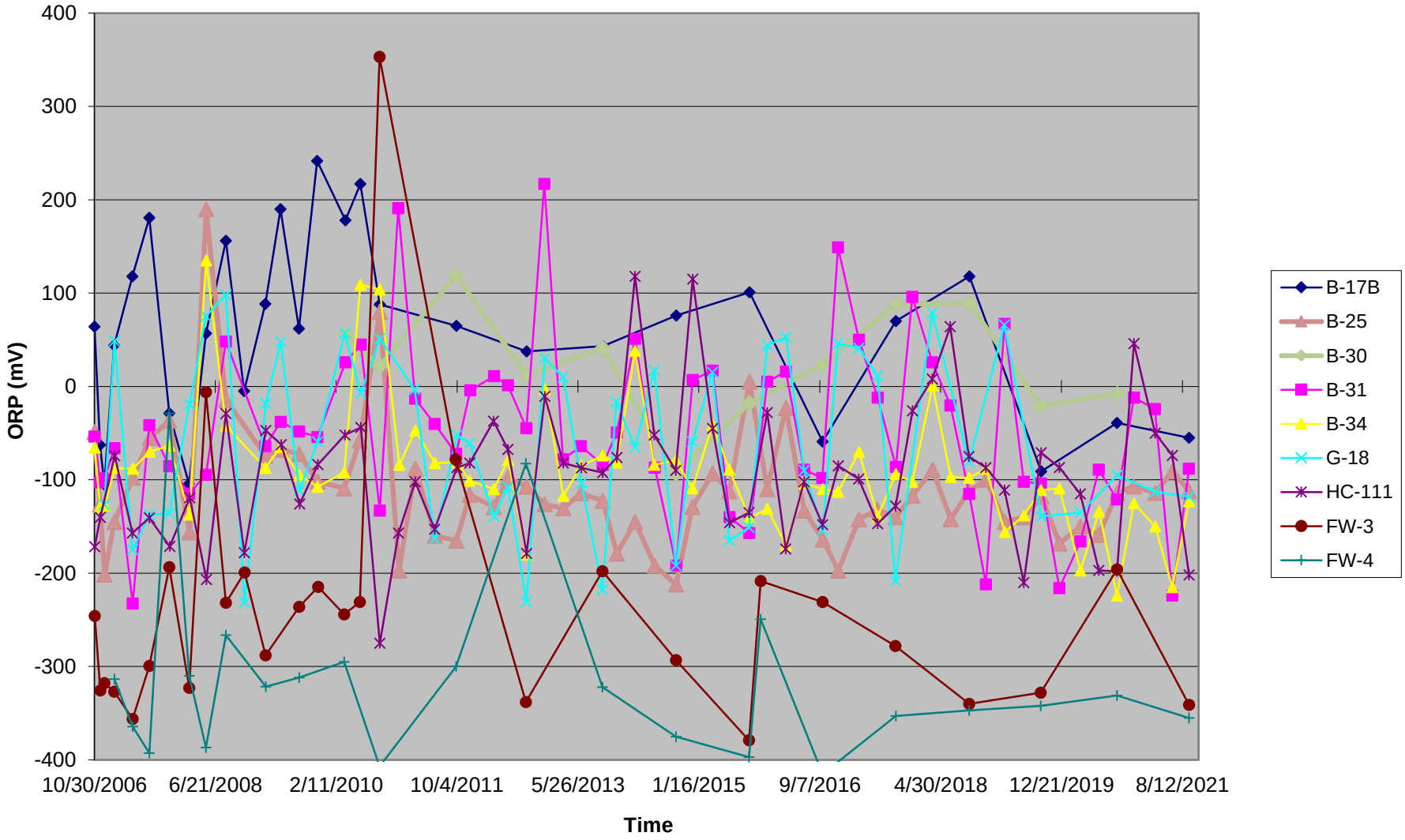
Graph 4 Dissolved Oxygen Time Series - HC-111 Plume



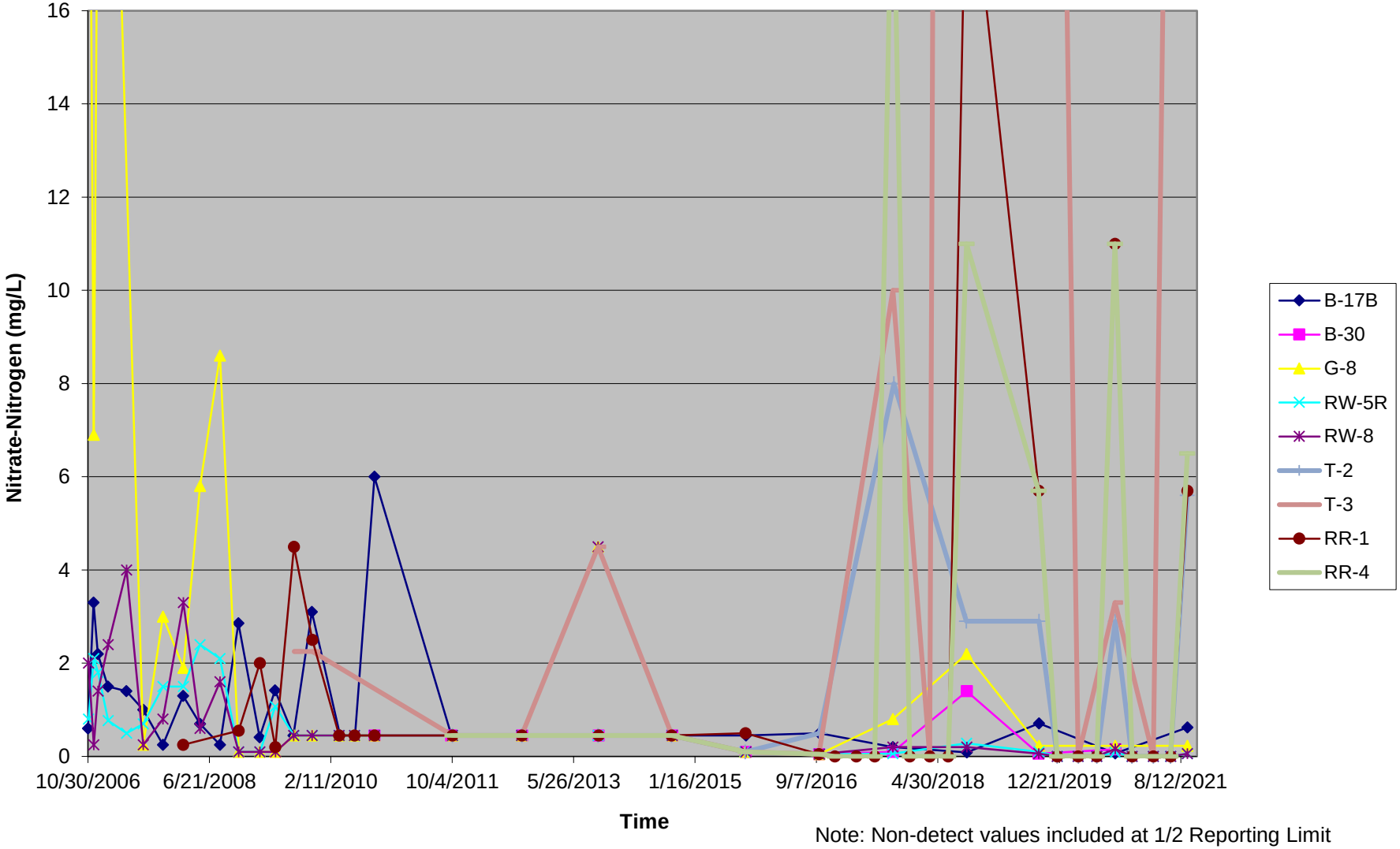
Graph 5 ORP Time Series - RW-5R Plume



Graph 6 ORP Time Series - HC-111 Plume

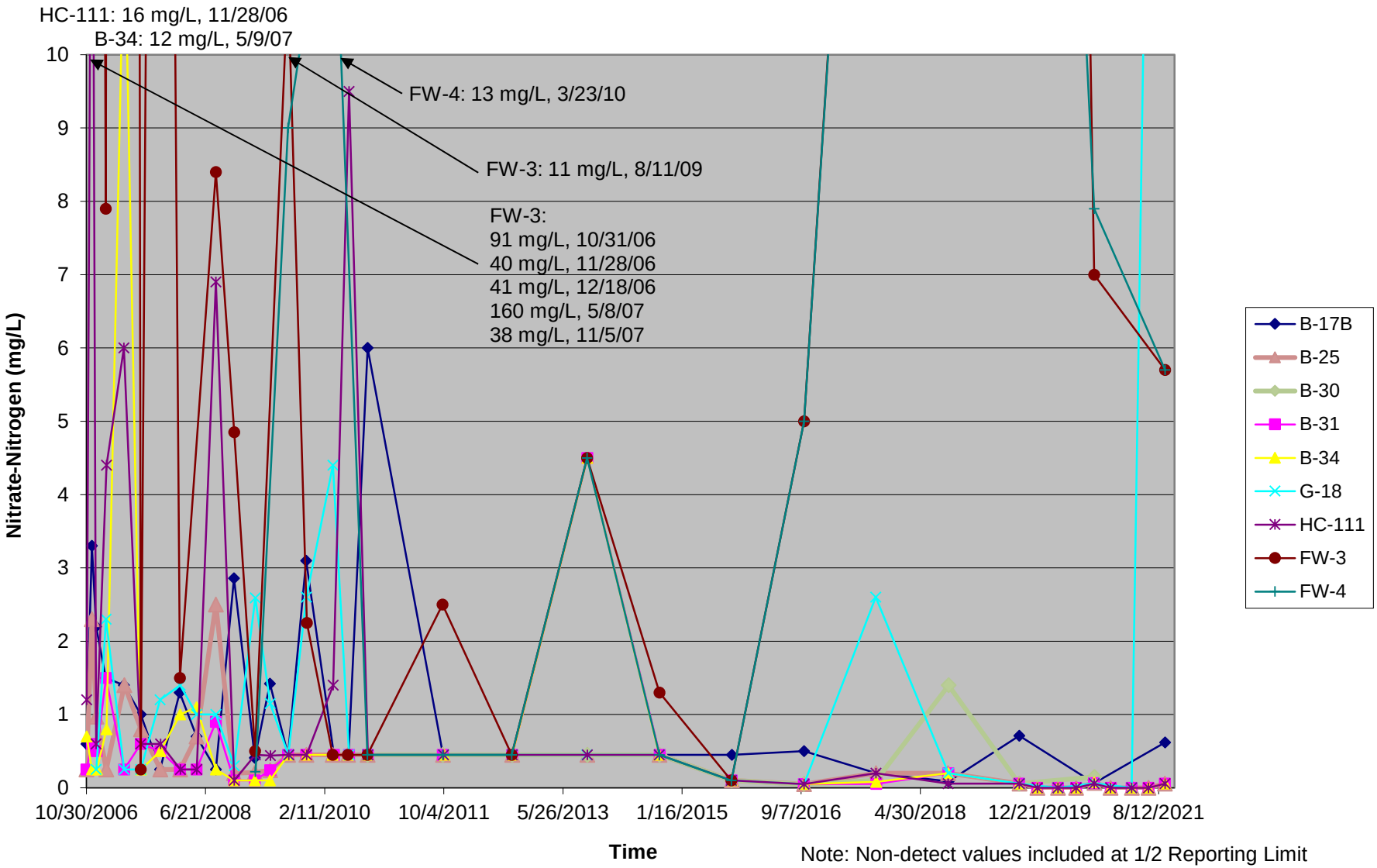


Graph 7 Nitrate-Nitrogen Time Series - RW-5R Plume



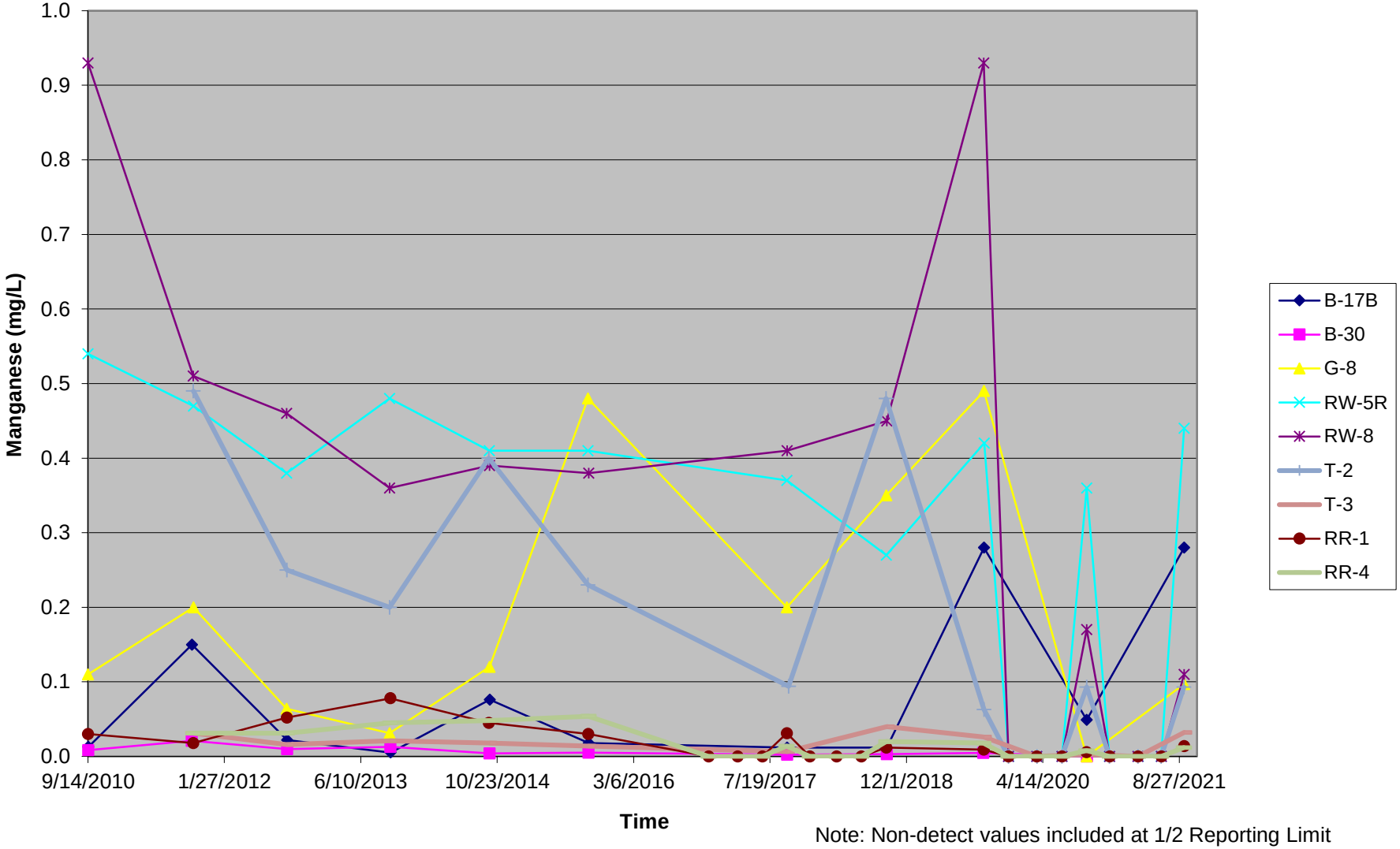
Note: Non-detect values included at 1/2 Reporting Limit

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



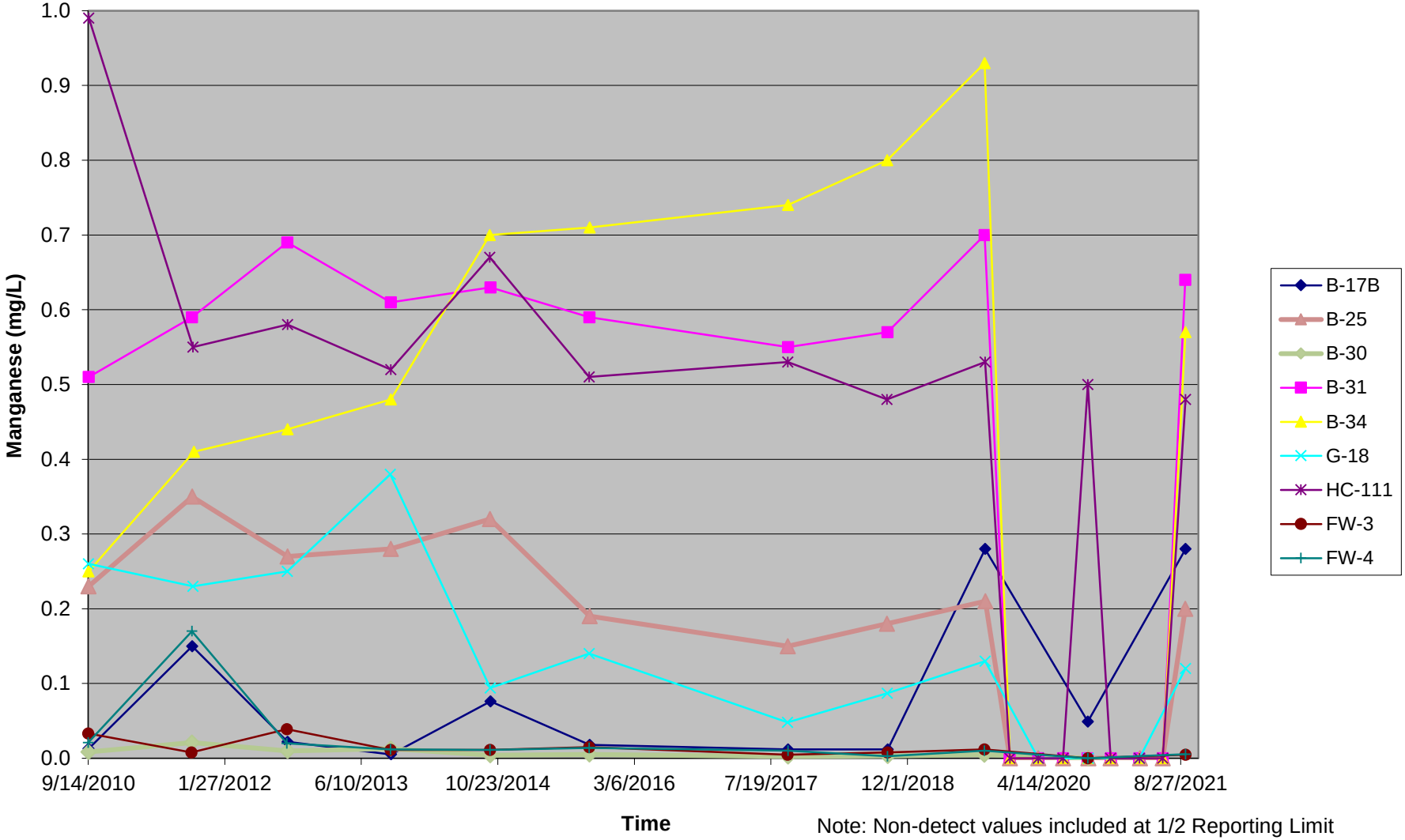
Note: Non-detect values included at 1/2 Reporting Limit

Graph 9 Manganese Time Series - RW-5R Plume



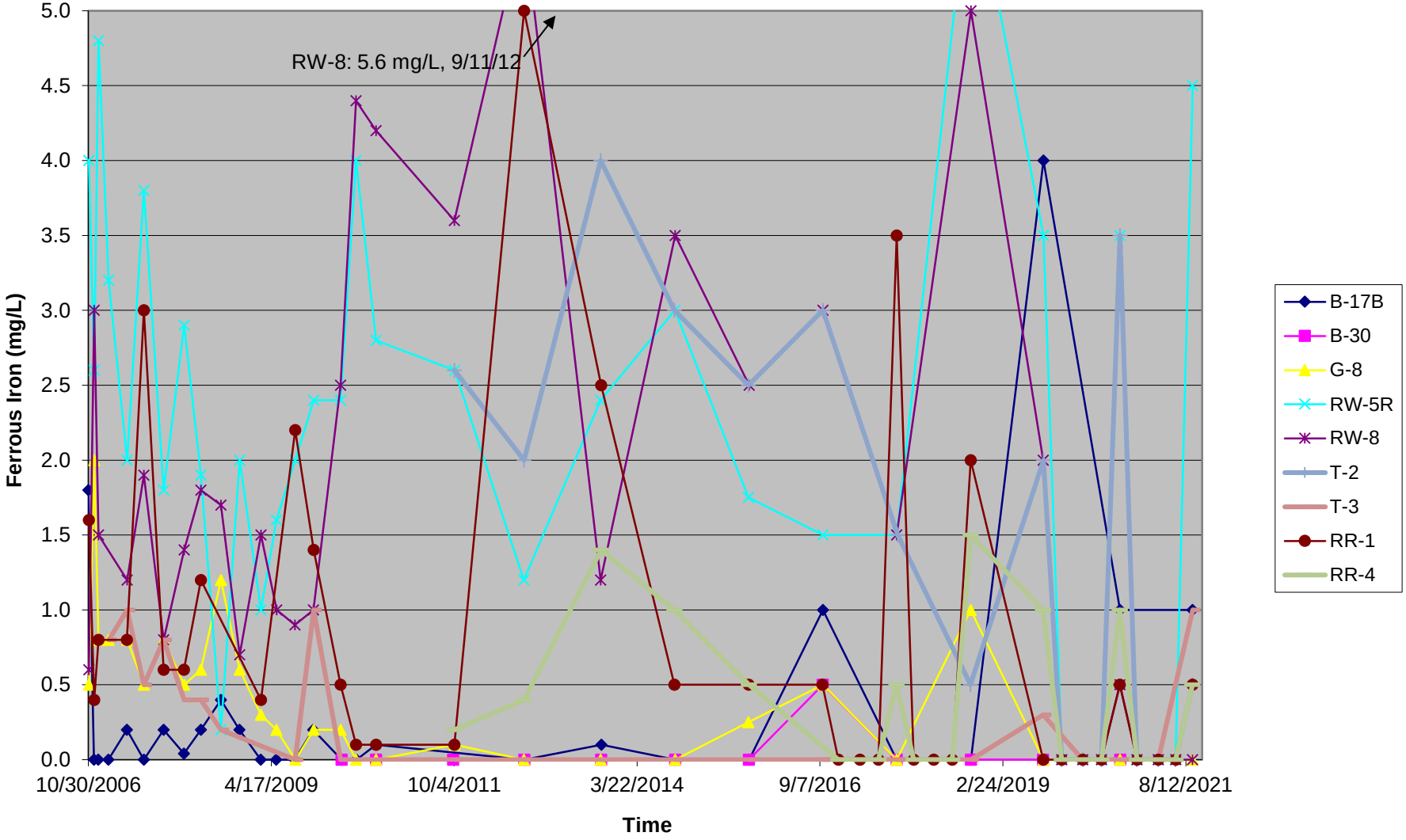
Note: Non-detect values included at 1/2 Reporting Limit

Graph 10 Manganese Time Series - HC-111 Plume

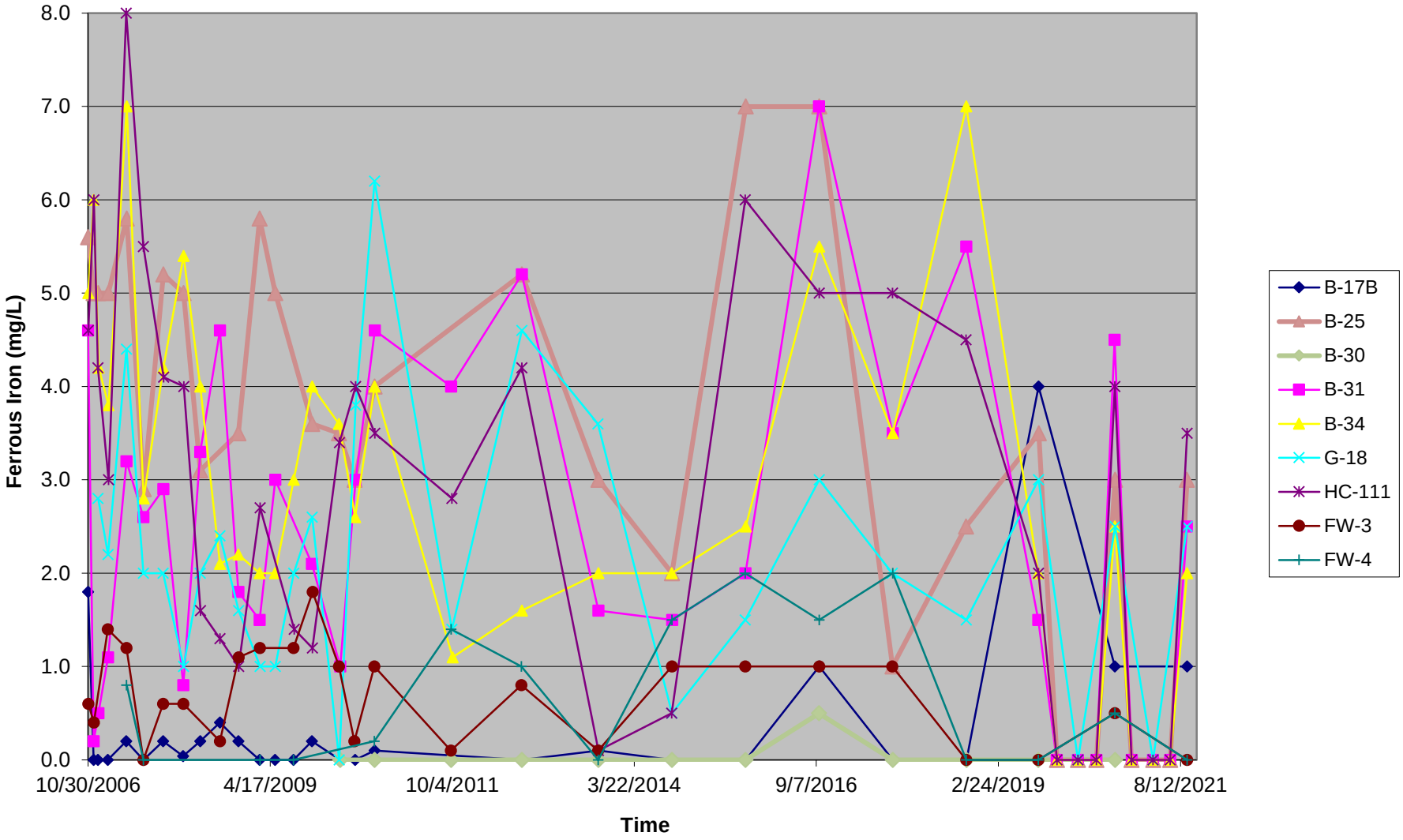


Note: Non-detect values included at 1/2 Reporting Limit

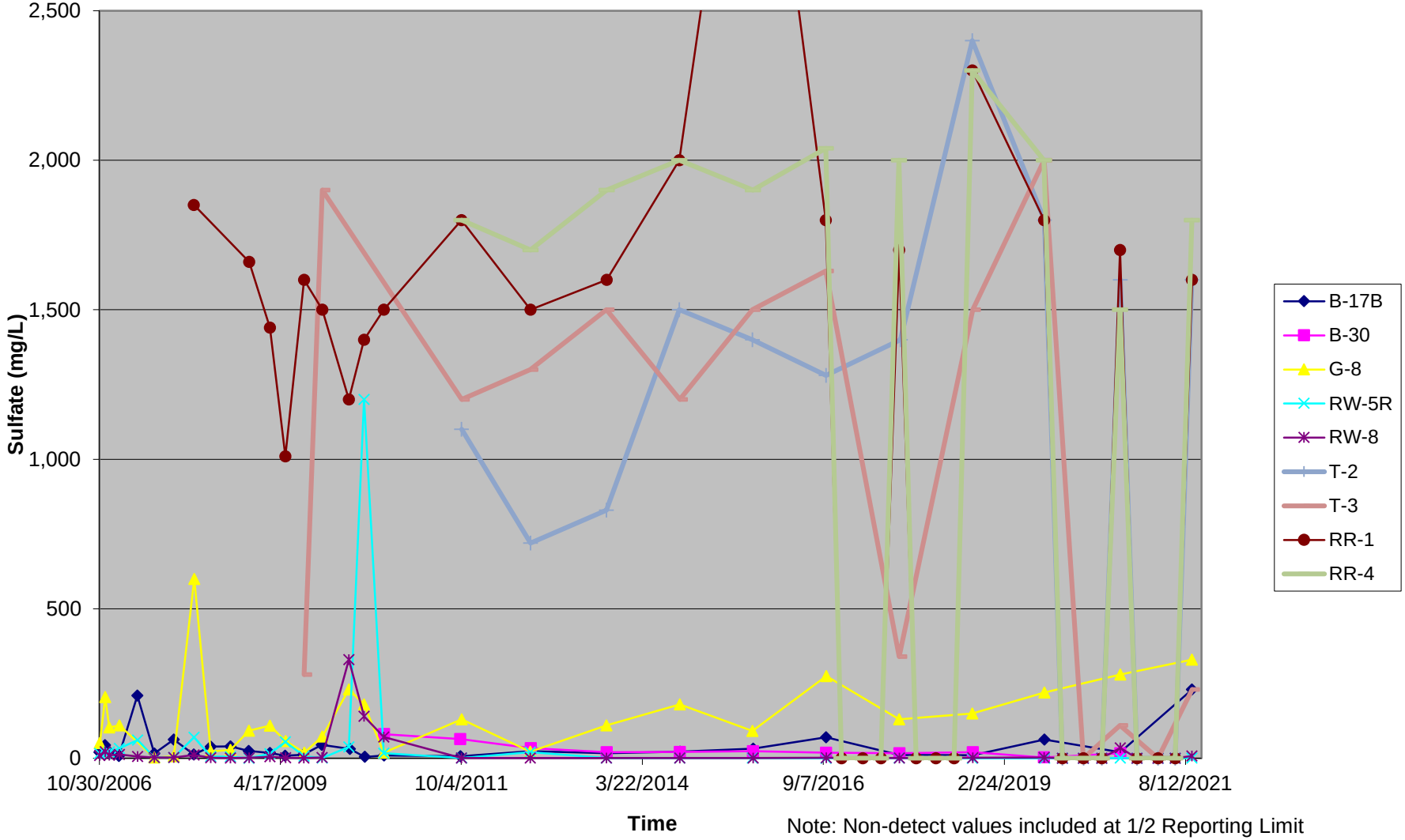
Graph 11 Ferrous Iron Time Series - RW-5R Plume



Graph 12 Ferrous Iron Time Series - HC-111 Plume

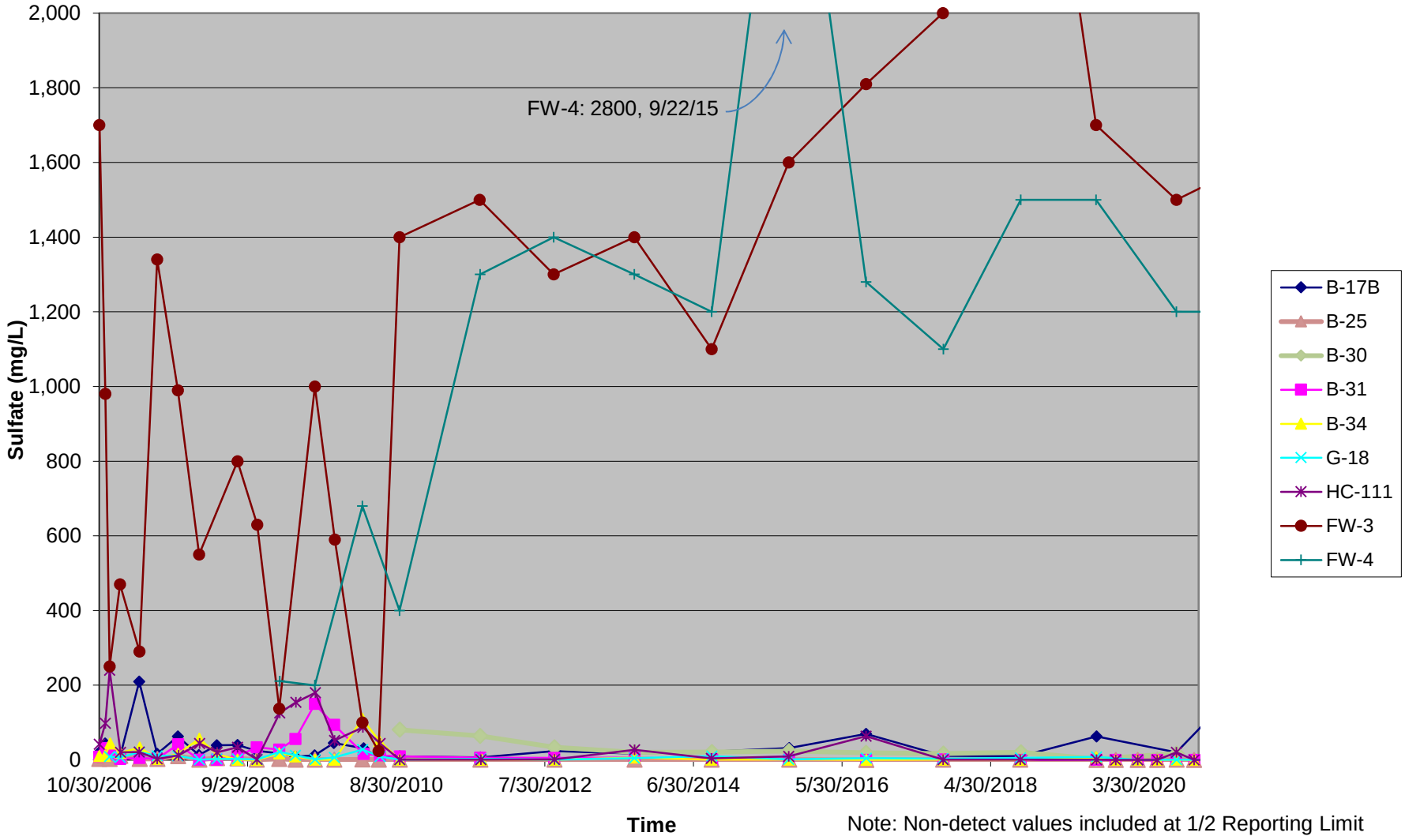


Graph 13 Sulfate Time Series - RW-5R Plume



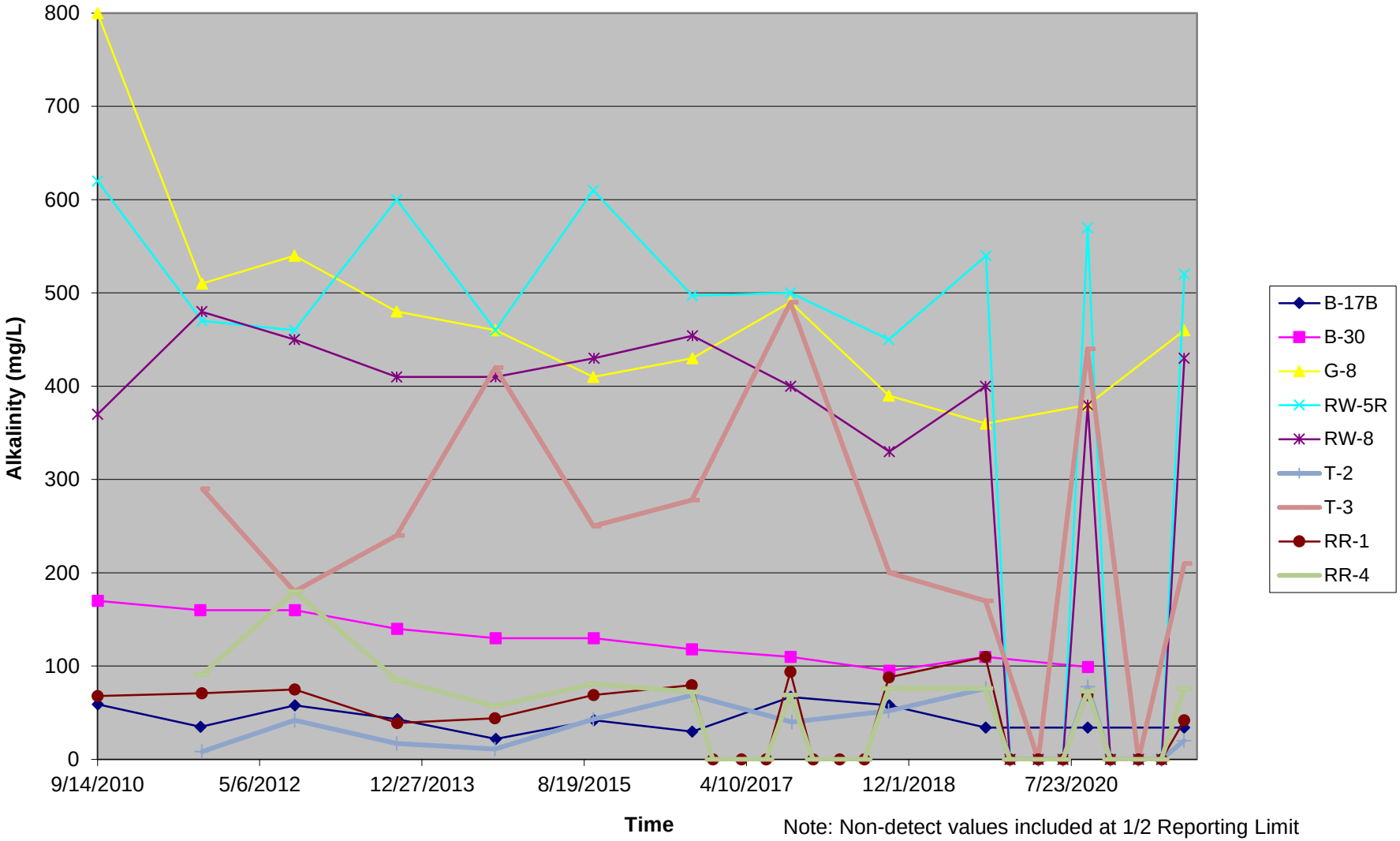
Note: Non-detect values included at 1/2 Reporting Limit

Graph 14 Sulfate Time Series - HC-111 Plume



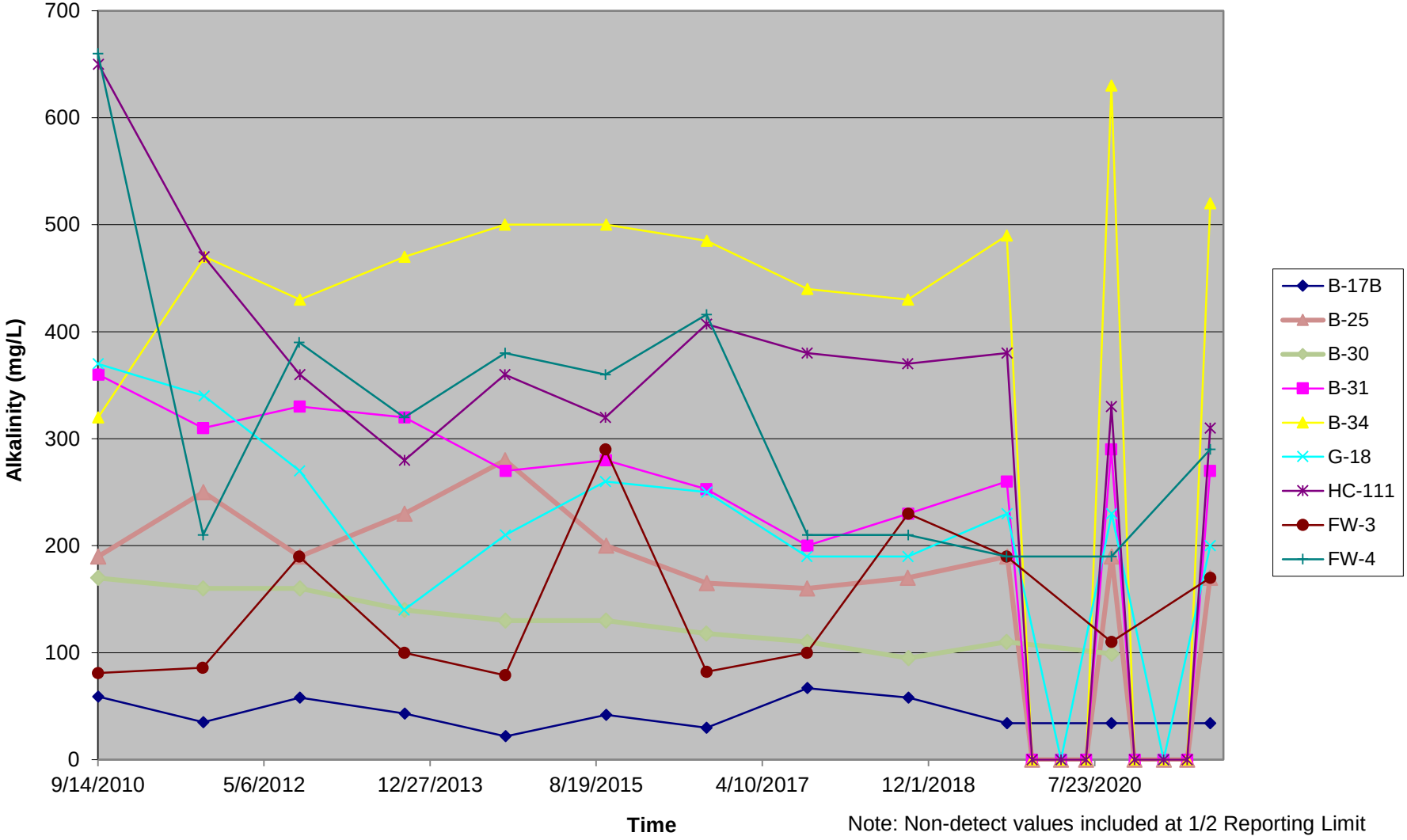
Note: Non-detect values included at 1/2 Reporting Limit

Graph 15 Alkalinity Time Series - RW-5R Plume

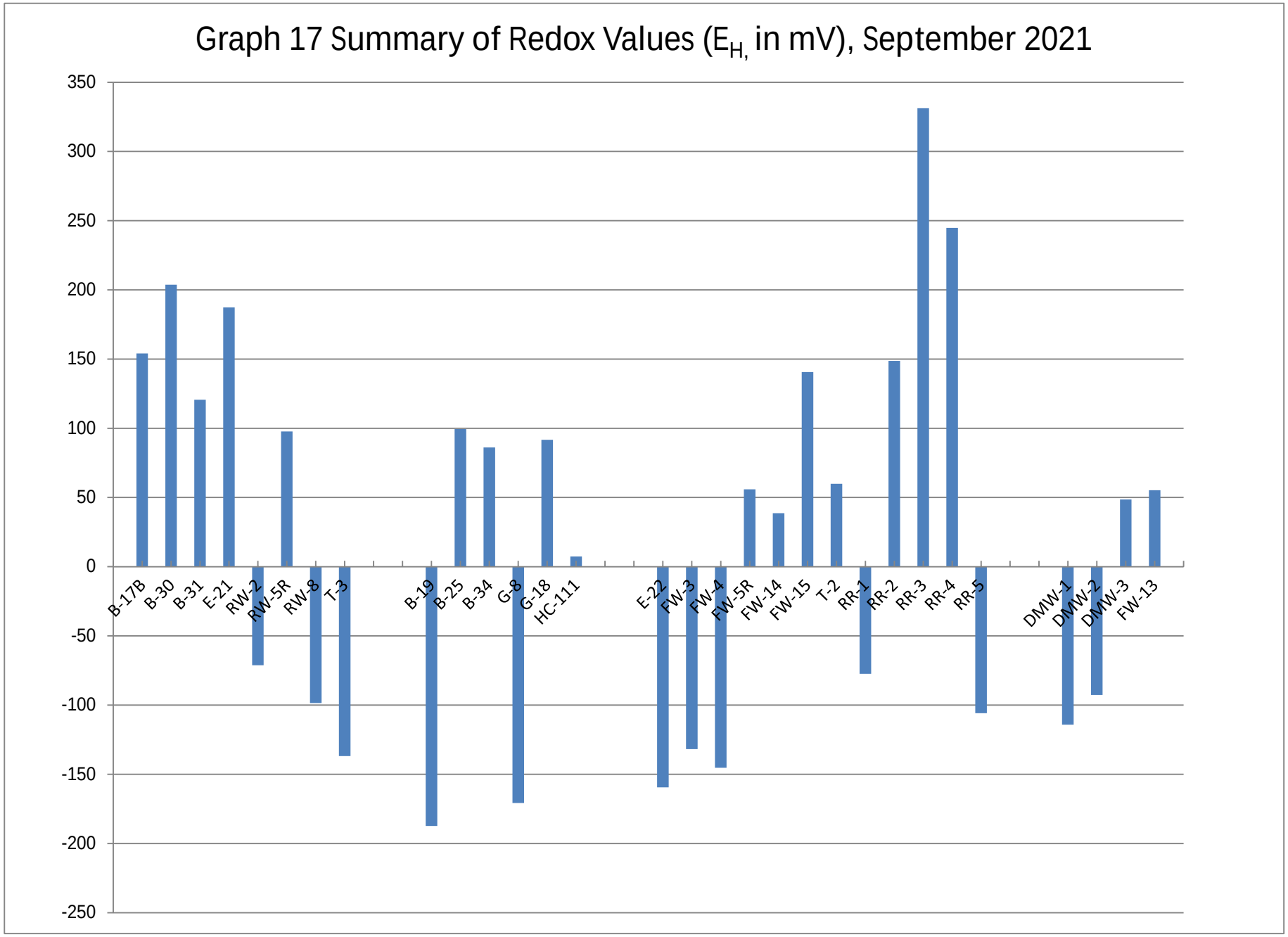


Note: Non-detect values included at 1/2 Reporting Limit

Graph 16 Alkalinity Time Series - HC-111 Plume



Note: Non-detect values included at 1/2 Reporting Limit


Graph 17 Summary of Redox Values ($E_{H,}$ in mV), September 2021
350
300
250
200
150
100
50
0
-50
-100
-150
-200
-250
B-17B
B-30
B-31
E-21
RW-2
RW-5R
RW-8
T-3
B-19
B-25
B-34
G-8
G-18
HC-111
E-22
FW-3
FW-4
FW-5R
FW-14
FW-15
T-2
RR-1
RR-2
RR-3
RR-4
RR-5
DMW-1
DMW-2
DMW-3
FW-13

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
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-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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		CONCENTRATION (mg/L)								
WELL ID	DATE	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-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	-
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	-

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WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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-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-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	-
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	-

Appendix A
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D Street Petroleum Site

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

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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	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	-
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	-

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-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	-
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-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	-

Appendix A
Summary of Historical Groundwater Analytical Results
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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		TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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-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	-

Appendix A
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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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-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-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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

Appendix A
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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 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	0.00009 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

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WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

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
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	-
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	-

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
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	-
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-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	-

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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	12/5/1996	3.42	NA	NA	-	0.393	0.00500 U	0.226	0.0391	-

Appendix A
Summary of Historical Groundwater Analytical Results
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	11/1109	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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	- 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	0.0003 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-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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-
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	-
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	-

Appendix A
Summary of Historical Groundwater Analytical Results
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

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WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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-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	-

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-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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

Appendix A
Summary of Historical Groundwater Analytical Results
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

Appendix A
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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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	-
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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

Appendix A
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	0.00009 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-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	-
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	-

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WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
RR-2	9/24/2015	0.050 U	NA	0.11 U	0.25 U	- R	- 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	0.0030 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

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-
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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	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-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	-

Appendix A
Summary of Historical Groundwater Analytical Results
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		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-

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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-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-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	-
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	-

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WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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-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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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-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	-
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-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	-

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

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	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	-
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	-

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D Street Petroleum Site

		CONCENTRATION (mg/L)								
WELL ID	DATE	TPH-G	TPH-O&G	TPH-D	Heavy Oil TPH	B	T	E	X	Napthalene
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	-
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	-

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-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	-
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	0.097	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	-

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-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	-

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, Third Quarter 2021

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15884-1
Client Project/Site: Tacoma D St Terminal/60626737

For:
AECOM
111 SW Columbia Street, Suite 1500
Portland, Oregon 97201

Attn: Mr. Tyler Hemry

Authorized for release by:
9/28/2021 11:27:05 AM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 590-15884-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 9/15/2021 11:05 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 2.6º C.

Receipt Exceptions
The COC requests 8270E SIM PAH analysis on the following samples but no containers were received for this analysis: B-25 (590-15884-1), B-25 (590-15884-1[MS]), B-25 (590-15884-1[MSD]), T-2 (590-15884-2), B-31 (590-15884-3), E-22 (590-15884-4), E-21 (590-15884-5), RR-5 (590-15884-6), RR-4 (590-15884-7), RR-4 Dup (590-15884-8) and Trip Blank (590-15884-9). The client was contacted and instructed the laboratory to cancel the analysis.

Method 300.0: The following samples were received outside of holding time: B-25 (590-15884-1), B-25 (590-15884-1[MS]) and B-25 (590-15884-1[MSD]).

GC/MS VOA
Method 8260D: Benzene exceeded the calibration range for the matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 590-33177. The results were not quantifiable and there was insufficient volume to re-analyze the matrix spike/matrix spike duplicate (MS/MSD); therefore, the Benzene MS/MSD data has been omitted from the final report.

Method NWTPH-Gx: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with analytical batch 590-33176.

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 sample was received outside of holding time: B-25 (590-15884-1).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel in the following samples: E-22 (590-15884-4), E-21 (590-15884-5) and RR-5 (590-15884-6).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel in the following sample: B-31 (590-15884-3).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following sample: B-25 (590-15884-1).

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/60626737

Job ID: 590-15884-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-15884-1	B-25	Water	09/13/21 10:08	09/15/21 11:05
590-15884-2	T-2	Water	09/13/21 12:10	09/15/21 11:05
590-15884-3	B-31	Water	09/13/21 13:50	09/15/21 11:05
590-15884-4	E-22	Water	09/13/21 14:05	09/15/21 11:05
590-15884-5	E-21	Water	09/13/21 14:50	09/15/21 11:05
590-15884-6	RR-5	Water	09/13/21 15:45	09/15/21 11:05
590-15884-7	RR-4	Water	09/13/21 15:55	09/15/21 11:05
590-15884-8	RR-4 Dup	Water	09/13/21 15:55	09/15/21 11:05
590-15884-9	Trip Blank	Water	09/13/21 08:00	09/15/21 11:05

Method Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
NWTPH = Northwest Total Petroleum Hydrocarbon
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: B-25 — Lab Sample ID: 590-15884-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	230		40	9.3	ug/L	100		8260D	Total/NA
Ethylbenzene	0.81	J	1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	1.9	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.28	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	1.6		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	2.2	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	2300		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.78		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.22	J	0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.20		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	170		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: T-2 — Lab Sample ID: 590-15884-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	79	J	150	70	ug/L	1		NWTPH-Gx	Total/NA
Nitrate as N	5.6	J	10	2.9	mg/L	50		300.0	Total/NA
Sulfate	1600		25	6.4	mg/L	50		300.0	Total/NA
Lead	0.0012	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.093		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	20		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: B-31 — Lab Sample ID: 590-15884-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	6.1		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	20		2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	1.9		1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	4.9		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	22		3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	1400		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	2.1		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.13	J	0.43	0.13	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.35	J	0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.64		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: E-22 — Lab Sample ID: 590-15884-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	0.82	J	1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.46	J	2.0	0.28	ug/L	1		8260D	Total/NA
Xylenes, Total	0.46	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	130	J	150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.32		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	120		5.0	1.3	mg/L	10		300.0	Total/NA
Manganese	0.0050	J	0.010	0.0023	mg/L	5		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: E-22 (Continued) — Lab Sample ID: 590-15884-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	370		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: E-21 — Lab Sample ID: 590-15884-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		0.40	0.093	ug/L	1		8260D	Total/NA
m,p-Xylene	0.36	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.43	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	0.31	J	1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	0.78	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	100	J	150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	5.5		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.82		0.42	0.13	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	25		0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.16		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: RR-5 — Lab Sample ID: 590-15884-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.11	J	0.40	0.093	ug/L	1		8260D	Total/NA
Gasoline	130	J	150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.19	J	0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	1500		50	13	mg/L	100		300.0	Total/NA
Lead	0.00088	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Lead	0.00046	J	0.0020	0.00020	mg/L	5		6020B	Dissolved
Manganese	0.027		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	110		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-4 — Lab Sample ID: 590-15884-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	6.5	J	20	5.7	mg/L	100		300.0	Total/NA
Sulfate	1800		50	13	mg/L	100		300.0	Total/NA
Manganese	0.012		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	76		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-4 Dup — Lab Sample ID: 590-15884-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	6.7	J	20	5.7	mg/L	100		300.0	Total/NA
Sulfate	1800		50	13	mg/L	100		300.0	Total/NA
Lead	0.0013	J	0.0020	0.00020	mg/L	5		6020B	Dissolved
Manganese	0.012		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	75		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 590-15884-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: B-25

Date Collected: 09/13/21 10:08
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**230**		40	9.3	ug/L			09/20/21 12:49	100
Ethylbenzene	**0.81**	**J**	1.0	0.20	ug/L			09/17/21 13:35	1
m,p-Xylene	**1.9**	**J**	2.0	0.28	ug/L			09/17/21 13:35	1
o-Xylene	**0.28**	**J**	1.0	0.16	ug/L			09/17/21 13:35	1
Toluene	**1.6**		1.0	0.31	ug/L			09/17/21 13:35	1
Xylenes, Total	**2.2**	**J**	3.0	0.44	ug/L			09/17/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/17/21 13:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*09/20/21 12:49*	*100*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/17/21 13:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/20/21 12:49*	*100*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/17/21 13:35*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/20/21 12:49*	*100*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/17/21 13:35*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/20/21 12:49*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**2300**		150	70	ug/L			09/17/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*68.7 - 141*		*09/17/21 13:35*	*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)	**0.78**		0.26	0.12	mg/L		09/20/21 14:41	09/20/21 22:30	1
Residual Range Organics (RRO) (C25-C36)	ND		0.44	0.13	mg/L		09/20/21 14:41	09/20/21 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*09/20/21 14:41*	*09/20/21 22:30*	*1*
n-Triacontane-d62	*89*		*50 - 150*	*09/20/21 14:41*	*09/20/21 22:30*	*1*

Method: 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			09/15/21 13:24	1
Sulfate	**0.22**	**J**	0.50	0.13	mg/L			09/15/21 13:24	1

Method: 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		09/17/21 18:17	09/20/21 19:33	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 17:24	5
Manganese	**0.20**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 17:24	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**170**		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: T-2

Date Collected: 09/13/21 12:10
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-2

Matrix: Water

Method: 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			09/17/21 15:20	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 15:20	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 15:20	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 15:20	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 15:20	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*09/17/21 15:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/17/21 15:20*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/17/21 15:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/17/21 15:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**79**	**J**	150	70	ug/L			09/17/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*68.7 - 141*		*09/17/21 15:20*	*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)	ND		0.23	0.11	mg/L		09/20/21 14:41	09/20/21 23:32	1
Residual Range Organics (RRO) (C25-C36)	ND		0.39	0.12	mg/L		09/20/21 14:41	09/20/21 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*09/20/21 14:41*	*09/20/21 23:32*	*1*
n-Triacontane-d62	*88*		*50 - 150*	*09/20/21 14:41*	*09/20/21 23:32*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**5.6**	**J**	10	2.9	mg/L			09/15/21 11:56	50
Sulfate	**1600**		25	6.4	mg/L			09/15/21 11:56	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0012**	**J**	0.0020	0.00020	mg/L		09/17/21 18:17	09/20/21 20:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:05	5
Manganese	**0.093**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:05	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**20**		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: B-31

Date Collected: 09/13/21 13:50
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.6		0.40	0.093	ug/L			09/17/21 15:41	1
Ethylbenzene	6.1		1.0	0.20	ug/L			09/17/21 15:41	1
m,p-Xylene	20		2.0	0.28	ug/L			09/17/21 15:41	1
o-Xylene	1.9		1.0	0.16	ug/L			09/17/21 15:41	1
Toluene	4.9		1.0	0.31	ug/L			09/17/21 15:41	1
Xylenes, Total	22		3.0	0.44	ug/L			09/17/21 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*09/17/21 15:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/17/21 15:41*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/17/21 15:41*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/17/21 15:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1400		150	70	ug/L			09/17/21 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*68.7 - 141*		*09/17/21 15:41*	*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)	2.1		0.26	0.12	mg/L		09/20/21 14:41	09/21/21 00:13	1
Residual Range Organics (RRO) (C25-C36)	0.13	J	0.43	0.13	mg/L		09/20/21 14:41	09/21/21 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*09/20/21 14:41*	*09/21/21 00:13*	*1*
n-Triacontane-d62	*92*		*50 - 150*	*09/20/21 14:41*	*09/21/21 00:13*	*1*

Method: 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			09/15/21 12:08	1
Sulfate	0.35	J	0.50	0.13	mg/L			09/15/21 12:08	1

Method: 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		09/17/21 18:17	09/20/21 20:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 19:20	5
Manganese	0.64		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 19:20	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	270		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: E-22

Date Collected: 09/13/21 14:05
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.7**		0.40	0.093	ug/L			09/17/21 16:02	1
Ethylbenzene	**0.82**	**J**	1.0	0.20	ug/L			09/17/21 16:02	1
m,p-Xylene	**0.46**	**J**	2.0	0.28	ug/L			09/17/21 16:02	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 16:02	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 16:02	1
Xylenes, Total	**0.46**	**J**	3.0	0.44	ug/L			09/17/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*09/17/21 16:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/17/21 16:02*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/17/21 16:02*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/17/21 16:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**130**	**J**	150	70	ug/L			09/17/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*09/17/21 16:02*	*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)	**0.32**		0.25	0.11	mg/L		09/20/21 14:41	09/21/21 00:34	1
Residual Range Organics (RRO) (C25-C36)	ND		0.41	0.12	mg/L		09/20/21 14:41	09/21/21 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*09/20/21 14:41*	*09/21/21 00:34*	*1*
n-Triacontane-d62	*86*		*50 - 150*	*09/20/21 14:41*	*09/21/21 00:34*	*1*

Method: 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			09/15/21 12:21	10
Sulfate	**120**		5.0	1.3	mg/L			09/15/21 12:21	10

Method: 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		09/17/21 18:17	09/20/21 20:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:09	5
Manganese	**0.0050**	**J**	0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:09	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: E-21

Date Collected: 09/13/21 14:50
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.2**		0.40	0.093	ug/L			09/17/21 16:23	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 16:23	1
m,p-Xylene	**0.36**	**J**	2.0	0.28	ug/L			09/17/21 16:23	1
o-Xylene	**0.43**	**J**	1.0	0.16	ug/L			09/17/21 16:23	1
Toluene	**0.31**	**J**	1.0	0.31	ug/L			09/17/21 16:23	1
Xylenes, Total	**0.78**	**J**	3.0	0.44	ug/L			09/17/21 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*09/17/21 16:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/17/21 16:23*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/17/21 16:23*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/17/21 16:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**100**	**J**	150	70	ug/L			09/17/21 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*		*09/17/21 16:23*	*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)	**5.5**		0.25	0.11	mg/L		09/20/21 14:41	09/21/21 00:55	1
Residual Range Organics (RRO) (C25-C36)	**0.82**		0.42	0.13	mg/L		09/20/21 14:41	09/21/21 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*09/20/21 14:41*	*09/21/21 00:55*	*1*
n-Triacontane-d62	*89*		*50 - 150*	*09/20/21 14:41*	*09/21/21 00:55*	*1*

Method: 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			09/15/21 12:34	1
Sulfate	**25**		0.50	0.13	mg/L			09/15/21 12:34	1

Method: 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		09/17/21 18:17	09/20/21 20:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:13	5
Manganese	**0.16**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:13	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**210**		7.0	7.0	mg/L			09/23/21 16:05	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: RR-5

Date Collected: 09/13/21 15:45
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.11**	**J**	0.40	0.093	ug/L			09/17/21 17:05	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 17:05	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 17:05	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 17:05	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 17:05	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*09/17/21 17:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/17/21 17:05*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/17/21 17:05*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/17/21 17:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**130**	**J**	150	70	ug/L			09/17/21 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*		*09/17/21 17:05*	*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)	**0.19**	**J**	0.24	0.11	mg/L		09/20/21 14:41	09/21/21 01:15	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 14:41	09/21/21 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*09/20/21 14:41*	*09/21/21 01:15*	*1*
n-Triacontane-d62	*94*		*50 - 150*	*09/20/21 14:41*	*09/21/21 01:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		20	5.7	mg/L			09/15/21 12:46	100
Sulfate	**1500**		50	13	mg/L			09/15/21 12:46	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00088**	**J**	0.0020	0.00020	mg/L		09/17/21 18:17	09/20/21 20:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00046**	**J**	0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:17	5
Manganese	**0.027**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:17	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**110**		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: RR-4

Date Collected: 09/13/21 15:55
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-7

Matrix: Water

Method: 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			09/17/21 17:26	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 17:26	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 17:26	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 17:26	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 17:26	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*09/17/21 17:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/17/21 17:26*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/17/21 17:26*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/17/21 17:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*		*09/17/21 17:26*	*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)	ND		0.24	0.11	mg/L		09/20/21 14:41	09/21/21 01:36	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 14:41	09/21/21 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*09/20/21 14:41*	*09/21/21 01:36*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*09/20/21 14:41*	*09/21/21 01:36*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.5**	**J**	20	5.7	mg/L			09/15/21 12:59	100
Sulfate	**1800**		50	13	mg/L			09/15/21 12:59	100

Method: 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		09/17/21 18:17	09/20/21 20:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:20	5
Manganese	**0.012**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:20	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**76**		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: RR-4 Dup

Date Collected: 09/13/21 15:55
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-8

Matrix: Water

Method: 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			09/17/21 17:47	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 17:47	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 17:47	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 17:47	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 17:47	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*09/17/21 17:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/17/21 17:47*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/17/21 17:47*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/17/21 17:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*68.7 - 141*		*09/17/21 17:47*	*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)	ND		0.22	0.10	mg/L		09/20/21 14:41	09/21/21 01:57	1
Residual Range Organics (RRO) (C25-C36)	ND		0.36	0.11	mg/L		09/20/21 14:41	09/21/21 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*09/20/21 14:41*	*09/21/21 01:57*	*1*
n-Triacontane-d62	*81*		*50 - 150*	*09/20/21 14:41*	*09/21/21 01:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.7**	**J**	20	5.7	mg/L			09/15/21 13:12	100
Sulfate	**1800**		50	13	mg/L			09/15/21 13:12	100

Method: 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		09/17/21 18:17	09/20/21 20:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0013**	**J**	0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:24	5
Manganese	**0.012**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:24	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**75**		7.0	7.0	mg/L			09/23/21 16:04	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: Trip Blank

Lab Sample ID: 590-15884-9

Date Collected: 09/13/21 08:00
Date Received: 09/15/21 11:05

Matrix: Water

Method: 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			09/17/21 18:07	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 18:07	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 18:07	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 18:07	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 18:07	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*09/17/21 18:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/17/21 18:07*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/17/21 18:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/17/21 18:07*	*1*

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

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

Lab Sample ID: MB 590-33159/6
Matrix: Water
Analysis Batch: 33159

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			09/17/21 13:14	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 13:14	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 13:14	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 13:14	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 13:14	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*09/17/21 13:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/17/21 13:14*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/17/21 13:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/17/21 13:14*	*1*

Lab Sample ID: LCS 590-33159/4
Matrix: Water
Analysis Batch: 33159

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	11.0		ug/L		110	80 - 126
Ethylbenzene	10.0	10.4		ug/L		104	80 - 128
m,p-Xylene	10.0	10.1		ug/L		101	80 - 127
o-Xylene	10.0	10.2		ug/L		102	80 - 126
Toluene	10.0	10.1		ug/L		101	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 590-33159/1003
Matrix: Water
Analysis Batch: 33159

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	11.3		ug/L		113	80 - 126	3	18
Ethylbenzene	10.0	10.5		ug/L		105	80 - 128	1	18
m,p-Xylene	10.0	10.3		ug/L		103	80 - 127	2	18
o-Xylene	10.0	10.3		ug/L		103	80 - 126	1	17
Toluene	10.0	10.7		ug/L		107	80 - 129	6	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 590-15884-1 MS
Matrix: Water
Analysis Batch: 33159

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.81	J	10.0	11.0		ug/L		102	80 - 128
m,p-Xylene	1.9	J	10.0	11.1		ug/L		92	80 - 127
o-Xylene	0.28	J	10.0	9.28		ug/L		90	80 - 126
Toluene	1.6		10.0	11.1		ug/L		95	80 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*89*		*80 - 120*

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 33159

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.81	J	10.0	11.3		ug/L		105	80 - 128	3	18
m,p-Xylene	1.9	J	10.0	11.2		ug/L		93	80 - 127	1	18
o-Xylene	0.28	J	10.0	9.66		ug/L		94	80 - 126	4	17
Toluene	1.6		10.0	11.5		ug/L		98	80 - 129	3	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
Toluene-d8 (Surr)	*88*		*80 - 120*

Lab Sample ID: MB 590-33177/7
Matrix: Water
Analysis Batch: 33177

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			09/20/21 12:28	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 12:28	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 12:28	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 12:28	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 12:28	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*09/20/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 12:28*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/20/21 12:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/20/21 12:28*	*1*

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

Lab Sample ID: LCS 590-33177/5
Matrix: Water
Analysis Batch: 33177

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	11.8		ug/L		118	80 - 126
Ethylbenzene	10.0	10.8		ug/L		108	80 - 128
m,p-Xylene	10.0	10.5		ug/L		105	80 - 127
o-Xylene	10.0	11.0		ug/L		110	80 - 126
Toluene	10.0	10.5		ug/L		105	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: LCSD 590-33177/1004
Matrix: Water
Analysis Batch: 33177

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	11.2		ug/L		112	80 - 126	5	18
Ethylbenzene	10.0	11.0		ug/L		110	80 - 128	2	18
m,p-Xylene	10.0	10.7		ug/L		107	80 - 127	1	18
o-Xylene	10.0	10.8		ug/L		108	80 - 126	2	17
Toluene	10.0	10.4		ug/L		104	80 - 129	1	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: MB 590-33158/6
Matrix: Water
Analysis Batch: 33158

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*09/17/21 13:14*	*1*

Lab Sample ID: LCS 590-33158/1005
Matrix: Water
Analysis Batch: 33158

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

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

Lab Sample ID: LCS 590-33158/1005
Matrix: Water
Analysis Batch: 33158

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*

Lab Sample ID: LCSD 590-33158/1016
Matrix: Water
Analysis Batch: 33158

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	1070		ug/L		107	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*

Lab Sample ID: 590-15884-1 MS
Matrix: Water
Analysis Batch: 33158

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline	2300		1000	3510		ug/L		117	55.6 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*68.7 - 141*

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 33158

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	2300		1000	3350		ug/L		102	55.6 - 126	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*

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

Lab Sample ID: MB 590-33186/1-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33186

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		09/20/21 14:41	09/20/21 21:27	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 14:41	09/20/21 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/20/21 14:41*	*09/20/21 21:27*	*1*
n-Triacontane-d62	*85*		*50 - 150*	*09/20/21 14:41*	*09/20/21 21:27*	*1*

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

Lab Sample ID: LCS 590-33186/2-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.16		mg/L		72	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.40		mg/L		87	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*
n-Triacontane-d62	*90*		*50 - 150*

Lab Sample ID: LCSD 590-33186/3-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33186

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.21		mg/L		76	50 - 150	4	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.47		mg/L		92	50 - 150	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*
n-Triacontane-d62	*93*		*50 - 150*

Lab Sample ID: 590-15884-1 MS
Matrix: Water
Analysis Batch: 33182

Client Sample ID: B-25
Prep Type: Total/NA
Prep Batch: 33186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	0.78		1.70	1.97		mg/L		70	54.5 - 136
Residual Range Organics (RRO) (C25-C36)	ND		1.70	1.44		mg/L		85	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*
n-Triacontane-d62	*86*		*50 - 150*

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 33182

Client Sample ID: B-25
Prep Type: Total/NA
Prep Batch: 33186

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)	0.78		1.58	1.84		mg/L		67	54.5 - 136	7	32.5
Residual Range Organics (RRO) (C25-C36)	ND		1.58	1.36		mg/L		86	50 - 150	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

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

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 33182

Client Sample ID: B-25
Prep Type: Total/NA
Prep Batch: 33186

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Triacontane-d62	*88*		*50 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-33126/1003
Matrix: Water
Analysis Batch: 33126

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			09/15/21 09:40	1

Lab Sample ID: LCS 590-33126/1004
Matrix: Water
Analysis Batch: 33126

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	12.3		mg/L		98	90 - 110		

Lab Sample ID: 590-15884-1 MS
Matrix: Water
Analysis Batch: 33126

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	0.22	J	11.4	12.3		mg/L		106	80 - 120		

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 33126

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.22	J	11.4	12.2		mg/L		105	80 - 120	1	10

Lab Sample ID: 590-15884-1 DU
Matrix: Water
Analysis Batch: 33126

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfate	0.22	J		0.198	J	mg/L				12	15.7

Lab Sample ID: MB 590-33127/1003
Matrix: Water
Analysis Batch: 33127

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			09/15/21 09:40	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 590-33127/1004
Matrix: Water
Analysis Batch: 33127

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	4.97		mg/L		99	90 - 110		

Lab Sample ID: 590-15884-1 MS
Matrix: Water
Analysis Batch: 33127

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND	H H3	4.55	4.64	H H3	mg/L		102	80 - 120		

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 33127

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND	H H3	4.55	4.65	H H3	mg/L		102	80 - 120	0	12.1

Lab Sample ID: 590-15884-1 DU
Matrix: Water
Analysis Batch: 33127

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	ND	H H3		ND		mg/L				NC	13.1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-368167/23-A
Matrix: Water
Analysis Batch: 368372

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 368167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/17/21 18:17	09/20/21 19:29	5

Lab Sample ID: LCS 580-368167/24-A
Matrix: Water
Analysis Batch: 368372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 368167

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	1.02		mg/L		102	80 - 120		

Lab Sample ID: LCSD 580-368167/25-A
Matrix: Water
Analysis Batch: 368372

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 368167

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	1.02		mg/L		102	80 - 120	1	20

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

Lab Sample ID: 590-15884-1 MS — **Client Sample ID: B-25**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368372 — **Prep Batch: 368167**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		1.00	1.08		mg/L		108	80 - 120		

Lab Sample ID: 590-15884-1 MSD — **Client Sample ID: B-25**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368372 — **Prep Batch: 368167**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1.00	1.05		mg/L		105	80 - 120	3	20

Lab Sample ID: 590-15884-1 DU — **Client Sample ID: B-25**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368372 — **Prep Batch: 368167**

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 580-368485/24-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368612 — **Prep Batch: 368485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 17:17	5
Manganese	ND		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 17:17	5

Lab Sample ID: LCS 580-368485/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368612 — **Prep Batch: 368485**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	0.986		mg/L		99	80 - 120		
Manganese			1.00	0.970		mg/L		97	80 - 120		

Lab Sample ID: LCSD 580-368485/26-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368612 — **Prep Batch: 368485**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	0.981		mg/L		98	80 - 120	0	20
Manganese			1.00	0.946		mg/L		95	80 - 120	3	20

Lab Sample ID: 590-15884-1 MS — **Client Sample ID: B-25**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 368612 — **Prep Batch: 368485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		1.00	1.01		mg/L		101	80 - 120		
Manganese	0.20		1.00	1.18		mg/L		98	80 - 120		

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

Lab Sample ID: 590-15884-1 MSD
Matrix: Water
Analysis Batch: 368612

Client Sample ID: B-25
Prep Type: Dissolved
Prep Batch: 368485

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	1	20
Manganese	0.20		1.00	1.19		mg/L		99	80 - 120	1	20

Lab Sample ID: 590-15884-1 DU
Matrix: Water
Analysis Batch: 368612

Client Sample ID: B-25
Prep Type: Dissolved
Prep Batch: 368485

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	ND			ND		mg/L				NC	20
Manganese	0.20			0.206		mg/L				2	20

Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-368707/2
Matrix: Water
Analysis Batch: 368707

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	93.1		mg/L		93	85 - 115		

Lab Sample ID: 590-15884-1 DU
Matrix: Water
Analysis Batch: 368707

Client Sample ID: B-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	170			166		mg/L				4	17

QC Association Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

GC/MS VOA

Analysis Batch: 33158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	NWTPH-Gx	
590-15884-2	T-2	Total/NA	Water	NWTPH-Gx	
590-15884-3	B-31	Total/NA	Water	NWTPH-Gx	
590-15884-4	E-22	Total/NA	Water	NWTPH-Gx	
590-15884-5	E-21	Total/NA	Water	NWTPH-Gx	
590-15884-6	RR-5	Total/NA	Water	NWTPH-Gx	
590-15884-7	RR-4	Total/NA	Water	NWTPH-Gx	
590-15884-8	RR-4 Dup	Total/NA	Water	NWTPH-Gx	
MB 590-33158/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-33158/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-33158/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
590-15884-1 MS	B-25	Total/NA	Water	NWTPH-Gx	
590-15884-1 MSD	B-25	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 33159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	8260D	
590-15884-2	T-2	Total/NA	Water	8260D	
590-15884-3	B-31	Total/NA	Water	8260D	
590-15884-4	E-22	Total/NA	Water	8260D	
590-15884-5	E-21	Total/NA	Water	8260D	
590-15884-6	RR-5	Total/NA	Water	8260D	
590-15884-7	RR-4	Total/NA	Water	8260D	
590-15884-8	RR-4 Dup	Total/NA	Water	8260D	
590-15884-9	Trip Blank	Total/NA	Water	8260D	
MB 590-33159/6	Method Blank	Total/NA	Water	8260D	
LCS 590-33159/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-33159/1003	Lab Control Sample Dup	Total/NA	Water	8260D	
590-15884-1 MS	B-25	Total/NA	Water	8260D	
590-15884-1 MSD	B-25	Total/NA	Water	8260D	

Analysis Batch: 33177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	8260D	
MB 590-33177/7	Method Blank	Total/NA	Water	8260D	
LCS 590-33177/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-33177/1004	Lab Control Sample Dup	Total/NA	Water	8260D	

GC Semi VOA

Analysis Batch: 33182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	NWTPH-Dx	33186
590-15884-2	T-2	Total/NA	Water	NWTPH-Dx	33186
590-15884-3	B-31	Total/NA	Water	NWTPH-Dx	33186
590-15884-4	E-22	Total/NA	Water	NWTPH-Dx	33186
590-15884-5	E-21	Total/NA	Water	NWTPH-Dx	33186
590-15884-6	RR-5	Total/NA	Water	NWTPH-Dx	33186
590-15884-7	RR-4	Total/NA	Water	NWTPH-Dx	33186
590-15884-8	RR-4 Dup	Total/NA	Water	NWTPH-Dx	33186
MB 590-33186/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	33186

GC Semi VOA (Continued)

Analysis Batch: 33182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 590-33186/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	33186
LCSD 590-33186/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	33186
590-15884-1 MS	B-25	Total/NA	Water	NWTPH-Dx	33186
590-15884-1 MSD	B-25	Total/NA	Water	NWTPH-Dx	33186

Prep Batch: 33186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	3510C	
590-15884-2	T-2	Total/NA	Water	3510C	
590-15884-3	B-31	Total/NA	Water	3510C	
590-15884-4	E-22	Total/NA	Water	3510C	
590-15884-5	E-21	Total/NA	Water	3510C	
590-15884-6	RR-5	Total/NA	Water	3510C	
590-15884-7	RR-4	Total/NA	Water	3510C	
590-15884-8	RR-4 Dup	Total/NA	Water	3510C	
MB 590-33186/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-33186/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-33186/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
590-15884-1 MS	B-25	Total/NA	Water	3510C	
590-15884-1 MSD	B-25	Total/NA	Water	3510C	

HPLC/IC

Analysis Batch: 33126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	300.0	
590-15884-2	T-2	Total/NA	Water	300.0	
590-15884-3	B-31	Total/NA	Water	300.0	
590-15884-4	E-22	Total/NA	Water	300.0	
590-15884-5	E-21	Total/NA	Water	300.0	
590-15884-6	RR-5	Total/NA	Water	300.0	
590-15884-7	RR-4	Total/NA	Water	300.0	
590-15884-8	RR-4 Dup	Total/NA	Water	300.0	
MB 590-33126/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-33126/1004	Lab Control Sample	Total/NA	Water	300.0	
590-15884-1 MS	B-25	Total/NA	Water	300.0	
590-15884-1 MSD	B-25	Total/NA	Water	300.0	
590-15884-1 DU	B-25	Total/NA	Water	300.0	

Analysis Batch: 33127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	300.0	
590-15884-2	T-2	Total/NA	Water	300.0	
590-15884-3	B-31	Total/NA	Water	300.0	
590-15884-4	E-22	Total/NA	Water	300.0	
590-15884-5	E-21	Total/NA	Water	300.0	
590-15884-6	RR-5	Total/NA	Water	300.0	
590-15884-7	RR-4	Total/NA	Water	300.0	
590-15884-8	RR-4 Dup	Total/NA	Water	300.0	
MB 590-33127/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-33127/1004	Lab Control Sample	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 33127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1 MS	B-25	Total/NA	Water	300.0	
590-15884-1 MSD	B-25	Total/NA	Water	300.0	
590-15884-1 DU	B-25	Total/NA	Water	300.0	

Metals

Prep Batch: 368167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total Recoverable	Water	3005A	
590-15884-2	T-2	Total Recoverable	Water	3005A	
590-15884-3	B-31	Total Recoverable	Water	3005A	
590-15884-4	E-22	Total Recoverable	Water	3005A	
590-15884-5	E-21	Total Recoverable	Water	3005A	
590-15884-6	RR-5	Total Recoverable	Water	3005A	
590-15884-7	RR-4	Total Recoverable	Water	3005A	
590-15884-8	RR-4 Dup	Total Recoverable	Water	3005A	
MB 580-368167/23-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-368167/24-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368167/25-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-15884-1 MS	B-25	Total Recoverable	Water	3005A	
590-15884-1 MSD	B-25	Total Recoverable	Water	3005A	
590-15884-1 DU	B-25	Total Recoverable	Water	3005A	

Analysis Batch: 368372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total Recoverable	Water	6020B	368167
590-15884-2	T-2	Total Recoverable	Water	6020B	368167
590-15884-3	B-31	Total Recoverable	Water	6020B	368167
590-15884-4	E-22	Total Recoverable	Water	6020B	368167
590-15884-5	E-21	Total Recoverable	Water	6020B	368167
590-15884-6	RR-5	Total Recoverable	Water	6020B	368167
590-15884-7	RR-4	Total Recoverable	Water	6020B	368167
590-15884-8	RR-4 Dup	Total Recoverable	Water	6020B	368167
MB 580-368167/23-A	Method Blank	Total Recoverable	Water	6020B	368167
LCS 580-368167/24-A	Lab Control Sample	Total Recoverable	Water	6020B	368167
LCSD 580-368167/25-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368167
590-15884-1 MS	B-25	Total Recoverable	Water	6020B	368167
590-15884-1 MSD	B-25	Total Recoverable	Water	6020B	368167
590-15884-1 DU	B-25	Total Recoverable	Water	6020B	368167

Prep Batch: 368485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Dissolved	Water	3005A	
590-15884-2	T-2	Dissolved	Water	3005A	
590-15884-3	B-31	Dissolved	Water	3005A	
590-15884-4	E-22	Dissolved	Water	3005A	
590-15884-5	E-21	Dissolved	Water	3005A	
590-15884-6	RR-5	Dissolved	Water	3005A	
590-15884-7	RR-4	Dissolved	Water	3005A	
590-15884-8	RR-4 Dup	Dissolved	Water	3005A	
MB 580-368485/24-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 368485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 580-368485/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368485/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-15884-1 MS	B-25	Dissolved	Water	3005A	
590-15884-1 MSD	B-25	Dissolved	Water	3005A	
590-15884-1 DU	B-25	Dissolved	Water	3005A	

Analysis Batch: 368612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Dissolved	Water	6020B	368485
590-15884-2	T-2	Dissolved	Water	6020B	368485
590-15884-3	B-31	Dissolved	Water	6020B	368485
590-15884-4	E-22	Dissolved	Water	6020B	368485
590-15884-5	E-21	Dissolved	Water	6020B	368485
590-15884-6	RR-5	Dissolved	Water	6020B	368485
590-15884-7	RR-4	Dissolved	Water	6020B	368485
590-15884-8	RR-4 Dup	Dissolved	Water	6020B	368485
MB 580-368485/24-A	Method Blank	Total Recoverable	Water	6020B	368485
LCS 580-368485/25-A	Lab Control Sample	Total Recoverable	Water	6020B	368485
LCSD 580-368485/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368485
590-15884-1 MS	B-25	Dissolved	Water	6020B	368485
590-15884-1 MSD	B-25	Dissolved	Water	6020B	368485
590-15884-1 DU	B-25	Dissolved	Water	6020B	368485

General Chemistry

Analysis Batch: 368707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15884-1	B-25	Total/NA	Water	310.1	
590-15884-2	T-2	Total/NA	Water	310.1	
590-15884-3	B-31	Total/NA	Water	310.1	
590-15884-4	E-22	Total/NA	Water	310.1	
590-15884-5	E-21	Total/NA	Water	310.1	
590-15884-6	RR-5	Total/NA	Water	310.1	
590-15884-7	RR-4	Total/NA	Water	310.1	
590-15884-8	RR-4 Dup	Total/NA	Water	310.1	
LCS 580-368707/2	Lab Control Sample	Total/NA	Water	310.1	
590-15884-1 DU	B-25	Total/NA	Water	310.1	

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: B-25

Lab Sample ID: 590-15884-1
Date Collected: 09/13/21 10:08
Matrix: Water
Date Received: 09/15/21 11:05

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	33159	09/17/21 13:35	JSP	TAL SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	33177	09/20/21 12:49	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 13:35	JSP	TAL SPK
Total/NA	Prep	3510C			226.7 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 22:30	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33126	09/15/21 13:24	AMB	TAL SPK
Total/NA	Analysis	300.0		1			33127	09/15/21 13:24	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 17:24	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 19:33	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: T-2

Lab Sample ID: 590-15884-2
Date Collected: 09/13/21 12:10
Matrix: Water
Date Received: 09/15/21 11:05

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	33159	09/17/21 15:20	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 15:20	JSP	TAL SPK
Total/NA	Prep	3510C			259.1 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 23:32	NMI	TAL SPK
Total/NA	Analysis	300.0		50			33126	09/15/21 11:56	AMB	TAL SPK
Total/NA	Analysis	300.0		50			33127	09/15/21 11:56	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:05	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:13	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: B-31

Lab Sample ID: 590-15884-3
Date Collected: 09/13/21 13:50
Matrix: Water
Date Received: 09/15/21 11:05

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	33159	09/17/21 15:41	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 15:41	JSP	TAL SPK
Total/NA	Prep	3510C			231.1 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 00:13	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33126	09/15/21 12:08	AMB	TAL SPK
Total/NA	Analysis	300.0		1			33127	09/15/21 12:08	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 19:20	FCW	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: B-31
Date Collected: 09/13/21 13:50
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-3
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	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:17	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: E-22
Date Collected: 09/13/21 14:05
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-4
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	33159	09/17/21 16:02	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 16:02	JSP	TAL SPK
Total/NA	Prep	3510C			243.9 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 00:34	NMI	TAL SPK
Total/NA	Analysis	300.0		10			33126	09/15/21 12:21	AMB	TAL SPK
Total/NA	Analysis	300.0		10			33127	09/15/21 12:21	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:09	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:21	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: E-21
Date Collected: 09/13/21 14:50
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-5
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	33159	09/17/21 16:23	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 16:23	JSP	TAL SPK
Total/NA	Prep	3510C			239.9 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 00:55	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33126	09/15/21 12:34	AMB	TAL SPK
Total/NA	Analysis	300.0		1			33127	09/15/21 12:34	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:13	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:25	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:05	MLT	FGS SEA

Client Sample ID: RR-5
Date Collected: 09/13/21 15:45
Date Received: 09/15/21 11:05

Lab Sample ID: 590-15884-6
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		1	43 mL	43 mL	33159	09/17/21 17:05	JSP	TAL SPK

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: RR-5

Lab Sample ID: 590-15884-6
Date Collected: 09/13/21 15:45
Matrix: Water
Date Received: 09/15/21 11:05

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	33158	09/17/21 17:05	JSP	TAL SPK
Total/NA	Prep	3510C			250.3 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 01:15	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33126	09/15/21 12:46	AMB	TAL SPK
Total/NA	Analysis	300.0		100			33127	09/15/21 12:46	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:17	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:28	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: RR-4

Lab Sample ID: 590-15884-7
Date Collected: 09/13/21 15:55
Matrix: Water
Date Received: 09/15/21 11:05

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	33159	09/17/21 17:26	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 17:26	JSP	TAL SPK
Total/NA	Prep	3510C			252.8 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 01:36	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33126	09/15/21 12:59	AMB	TAL SPK
Total/NA	Analysis	300.0		100			33127	09/15/21 12:59	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:20	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:32	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: RR-4 Dup

Lab Sample ID: 590-15884-8
Date Collected: 09/13/21 15:55
Matrix: Water
Date Received: 09/15/21 11:05

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	33159	09/17/21 17:47	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 17:47	JSP	TAL SPK
Total/NA	Prep	3510C			275.6 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 01:57	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33126	09/15/21 13:12	AMB	TAL SPK
Total/NA	Analysis	300.0		100			33127	09/15/21 13:12	AMB	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:24	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:36	FCW	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Client Sample ID: RR-4 Dup

Lab Sample ID: 590-15884-8
Date Collected: 09/13/21 15:55
Matrix: Water
Date Received: 09/15/21 11:05

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	368707	09/23/21 16:04	MLT	FGS SEA

Client Sample ID: Trip Blank

Lab Sample ID: 590-15884-9
Date Collected: 09/13/21 08:00
Matrix: Water
Date Received: 09/15/21 11:05

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	33159	09/17/21 18:07	JSP	TAL SPK

Laboratory References:

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

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

Qualifiers

GC/MS 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.

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
H3	Sample was received and analyzed past holding time.
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15884-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
NWTPH-Dx	3510C	Water	Residual Range Organics (RRO) (C25-C36)

Laboratory: Eurofins FGS, 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	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	Dept. of Energy	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2954	06-30-21 *
Florida	NELAP	E87575	06-30-22
Kentucky (WW)	State	KY98042	12-31-21
Louisiana	NELAP	03073	06-30-22
Maine	State	2020012	05-02-22
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-22
New York	NELAP	11662	04-01-22
Oregon	NELAP	4167	07-07-22
US Fish & Wildlife	US Federal Programs	058448	05-31-22
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C788	07-13-22
Wisconsin	State	399133460	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

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Client Information	Sampler: RD, NG, BD	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6828-2012.1
Client Contact: Clifford Pearson	Phone: (360-91-5)03	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin:	Page: Page 1 of 4
Company: AECOM	PWSID:			Job #:
Address: 111 SW Columbia Street, Suite 1500	Due Date Requested:			
City: Portland	TAT Requested (days):			
State, Zip: OR, 97201	Compliance Project: Δ Yes Δ No			
Phone: 913-344-1000(Tel) 913-344-1011(Fax)	PO #: 60626737			
Email: clifford.pearson@aecom.com	WO #: 60626737			
Project Name: Tacoma D St Terminal-Phillips 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - DRO and RRO	8260D, NWTPH_Gx_MS	300_ORGFM_28D, 300_ORGFMS	6020B - Total Lead	6020B - (MOD) Diss Pb & Mn	310.1 - Alkalinity only	8270E_SIM - (MOD) Naphthalenes	8260C - (MOD) BTEX only	Total Number of containers	/Note:
				Preservation Code:			A	A	N	D	D	N	N	A		
B-25	9/13/2021	10:08	G	Water	Y	Y	X	X	X	X	X	X	X	X	21	
T-2		12:10	G	Water	Y	N	X	X	X	X	X	X	X	X	7	
B-31		13:50	G	Water	Y	N	X	X	X	X	X	X	X	X		
E-22		14:05	G	Water	Y	N	X	X	X	X	X	X	X	X		
E-21		14:50	G	Water	Y	N	X	X	X	X	X	X	X	X		
RR-5		15:45	G	Water	Y	N	X	X	X	X	X	X	X	X		
RR-4		15:55	G	Water	Y	N	X	X	X	X	X	X	X	X		
RR-4-Dup		15:55	G	Water	Y	N	X	X	X	X	X	X	X	X		
Trip blank				Water	N	N								X		
				Water												
				Water												

590-15884 Chain of Custody

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 1 month)
☐ *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	Date/Time	Company
Rebecca Digiovanni	9/13/2021 18:00	AECOM	FedEx	9/13/2021	FedEx
			[illegible]	9/15/21 1:05	EMSPO

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No	130085	2.6°C Thermo

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6296.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15884-1
Address: 5755 8th Street East,	Due Date Requested: 9/28/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal/60626737	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:								
B-25 (590-15884-1)	9/13/21	10:08 Pacific		Water			X	X	X	3	
B-25 (590-15884-1MS)	9/13/21	10:08 Pacific	MS	Water			X	X	X	3	
B-25 (590-15884-1MSD)	9/13/21	10:08 Pacific	MSD	Water			X	X	X	3	
T-2 (590-15884-2)	9/13/21	12:10 Pacific		Water			X	X	X	3	
B-31 (590-15884-3)	9/13/21	13:50 Pacific		Water			X	X	X	3	
E-22 (590-15884-4)	9/13/21	14:05 Pacific		Water			X	X	X	3	
E-21 (590-15884-5)	9/13/21	14:50 Pacific		Water			X	X	X	3	
RR-5 (590-15884-6)	9/13/21	15:45 Pacific		Water			X	X	X	3	
RR-4 (590-15884-7)	9/13/21	15:55 Pacific		Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Cindi Amrgh	Date/Time: 9/13/21 1515	Company EFS	Received by:	Date/Time: 9/14/21 1010	Company EFS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

IR 9 = 0.1 /m

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6296.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15884-1
Address: 5755 8th Street East, ,	Due Date Requested: 9/28/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal/60626737	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:								
RR-4 Dup (590-15884-8)	9/13/21	15:55 Pacific		Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Randee Arrington	9/15/21 1515	EFTA		9/16/21 1010	EFHS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

IR9 = 0.1 / 0.1

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-15884-1

Login Number: 15884
List Number: 1
Creator: Vaughan, Madison 1

List Source: Eurofins TestAmerica, Spokane

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)	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 <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: 590-15884-1

Login Number: 15884
List Number: 2
Creator: Vallelunga, Diana L

List Source: Eurofins FGS, Seattle
List Creation: 09/16/21 12:05 PM

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.	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15898-1
Client Project/Site: Tacoma D St Terminal 66/6053745

For:
AECOM
111 SW Columbia Street, Suite 1500
Portland, Oregon 97201

Attn: Mr. Tyler Hemry

Authorized for release by:
9/28/2021 4:41:02 PM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 590-15898-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 9/15/2021 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 2.5º C and 3.3º C.

Receipt Exceptions
Method 300.0: The following sample was received outside of holding time: FW-4 (590-15898-7).

GC/MS VOA
Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 590-33177.

Method NWTPH-Gx: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with analytical batch 590-33176.

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: The following sample required a dilution due to the nature of the sample matrix: FW- 5R (590-15898-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA
Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel in the following samples: DMW-1 (590-15898-4), FW-3 (590-15898-5), DMW-3 (590-15898-6), FW-4 (590-15898-7), FW-13 (590-15898-11), DMW-2 (590-15898-13) and RR-1 (590-15898-19).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel in the following samples: G-18 (590-15898-3), HC-111 (590-15898-10), RW-8 (590-15898-20) and B-34 (590-15898-21).

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: T-3 (590-15898-9) and G-8 (590-15898-14).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to individual peaks, and resemble creosote or similar product in the following sample: FW- 5R (590-15898-8).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following sample: RW-2 (590-15898-16).

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 66/6053745

Job ID: 590-15898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-15898-1	RR-3	Water	09/14/21 08:45	09/15/21 16:35
590-15898-2	RR-2	Water	09/14/21 09:02	09/15/21 16:35
590-15898-3	G-18	Water	09/14/21 09:15	09/15/21 16:35
590-15898-4	DMW-1	Water	09/14/21 09:55	09/15/21 16:35
590-15898-5	FW-3	Water	09/14/21 10:06	09/15/21 16:35
590-15898-6	DMW-3	Water	09/14/21 10:30	09/15/21 16:35
590-15898-7	FW-4	Water	09/14/21 10:45	09/15/21 16:35
590-15898-8	FW-5R	Water	09/14/21 11:38	09/15/21 16:35
590-15898-9	T-3	Water	09/14/21 11:55	09/15/21 16:35
590-15898-10	HC-111	Water	09/14/21 11:55	09/15/21 16:35
590-15898-11	FW-13	Water	09/14/21 12:49	09/15/21 16:35
590-15898-12	FW-13 DUP	Water	09/14/21 12:49	09/15/21 16:35
590-15898-13	DMW-2	Water	09/14/21 12:55	09/15/21 16:35
590-15898-14	G-8	Water	09/14/21 13:15	09/15/21 16:35
590-15898-15	FW-14	Water	09/14/21 13:45	09/15/21 16:35
590-15898-16	RW-2	Water	09/14/21 14:30	09/15/21 16:35
590-15898-17	B-17B	Water	09/14/21 14:23	09/15/21 16:35
590-15898-18	FW-15	Water	09/14/21 14:35	09/15/21 16:35
590-15898-19	RR-1	Water	09/14/21 15:35	09/15/21 16:35
590-15898-20	RW-8	Water	09/14/21 15:35	09/15/21 16:35
590-15898-21	B-34	Water	09/14/21 15:43	09/15/21 16:35
590-15898-22	Trip Blank	Water	09/14/21 08:00	09/15/21 16:35

Method Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
NWTPH = Northwest Total Petroleum Hydrocarbon
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RR-3 — Lab Sample ID: 590-15898-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1800		500	130	mg/L	1000		300.0	Total/NA
Alkalinity	88		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-2 — Lab Sample ID: 590-15898-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1800		250	64	mg/L	500		300.0	Total/NA
Alkalinity	86		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: G-18 — Lab Sample ID: 590-15898-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.37	J	0.40	0.093	ug/L	1		8260D	Total/NA
o-Xylene	0.52	J	1.0	0.16	ug/L	1		8260D	Total/NA
Xylenes, Total	0.52	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	250		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	1.2		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.14	J	0.39	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	1.9		0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.12		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	200		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: DMW-1 — Lab Sample ID: 590-15898-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.26		0.25	0.12	mg/L	1		NWTPH-Dx	Total/NA
Manganese	0.41		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	380		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: FW-3 — Lab Sample ID: 590-15898-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.18	J	0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	1600		50	13	mg/L	100		300.0	Total/NA
Lead	0.00020	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Lead	0.00024	J	0.0020	0.00020	mg/L	5		6020B	Dissolved
Manganese	0.0049	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	170		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: DMW-3 — Lab Sample ID: 590-15898-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.20	J	1.0	0.16	ug/L	1		8260D	Total/NA
Gasoline	150		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.76		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.29	J	0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.86		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	340		7.0	7.0	mg/L	1		310.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-4 — Lab Sample ID: 590-15898-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.41		0.22	0.10	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	1200		50	13	mg/L	100		300.0	Total/NA
Manganese	0.0054	J	0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	290		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: FW-5R — Lab Sample ID: 590-15898-8

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
Ethylbenzene	0.20	J	1.0	0.20	ug/L	1		8260D	Total/NA
Toluene	0.33	J	1.0	0.31	ug/L	1		8260D	Total/NA
Gasoline	610		150	70	ug/L	1		NWTPH-Gx	Total/NA
Naphthalene	1.5		0.22	0.067	ug/L	1		8270E SIM	Total/NA
2-Methylnaphthalene - DL	310		43	8.5	ug/L	100		8270E SIM	Total/NA
1-Methylnaphthalene - DL	430		22	4.1	ug/L	100		8270E SIM	Total/NA
Diesel Range Organics (DRO) (C10-C25)	3.6		0.27	0.13	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.23	J	0.50	0.13	mg/L	1		300.0	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: T-3 — Lab Sample ID: 590-15898-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.23	J	0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	0.33	J	1.0	0.20	ug/L	1		8260D	Total/NA
Gasoline	810		150	70	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	58	J	200	57	mg/L	1000		300.0	Total/NA
Sulfate	230	J	500	130	mg/L	1000		300.0	Total/NA
Lead	0.00022	J	0.0020	0.00020	mg/L	5		6020B	Dissolved
Manganese	0.032		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: HC-111 — Lab Sample ID: 590-15898-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	26		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	5.1		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	1.7	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.52	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	5.3		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	2.2	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	1500		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	4.6		0.22	0.10	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.41		0.37	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.42	J	0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.48		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	310		7.0	7.0	mg/L	1		310.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Spokane

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-13 — Lab Sample ID: 590-15898-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.16	J	0.27	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.18	J	0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.23		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	170		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: FW-13 DUP — Lab Sample ID: 590-15898-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.18	J	0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.22		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	120		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: DMW-2 — Lab Sample ID: 590-15898-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.57		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	500		25	6.4	mg/L	50		300.0	Total/NA
Manganese	0.22		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	390		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: G-8 — Lab Sample ID: 590-15898-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.30	J	0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	16		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.42	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.28	J	1.0	0.16	ug/L	1		8260D	Total/NA
Xylenes, Total	0.71	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	360		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.38		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	330		2.0	0.51	mg/L	4		300.0	Total/NA
Lead	0.00079	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.097		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	460		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: FW-14 — Lab Sample ID: 590-15898-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.072	J	0.20	0.038	ug/L	1		8270E SIM	Total/NA
Nitrate as N	6.1	J	20	5.7	mg/L	100		300.0	Total/NA
Sulfate	1700		50	13	mg/L	100		300.0	Total/NA
Alkalinity	84		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RW-2 — Lab Sample ID: 590-15898-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	3.5		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.28	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.71	J	1.0	0.16	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Spokane

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RW-2 (Continued) — Lab Sample ID: 590-15898-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.50	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	1200		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.94		0.24	0.11	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	0.70		0.50	0.13	mg/L	1		300.0	Total/NA
Lead	0.00029	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.17		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: B-17B — Lab Sample ID: 590-15898-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.62		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	0.28		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	34		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: FW-15 — Lab Sample ID: 590-15898-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	7.0	J	20	5.7	mg/L	100		300.0	Total/NA
Sulfate	1900		50	13	mg/L	100		300.0	Total/NA
Lead	0.00062	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Alkalinity	41		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RR-1 — Lab Sample ID: 590-15898-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	110	J	150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.12	J	0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Nitrate as N	5.7	J	20	5.7	mg/L	100		300.0	Total/NA
Sulfate	1600		50	13	mg/L	100		300.0	Total/NA
Lead	0.00023	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.014		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	42		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: RW-8 — Lab Sample ID: 590-15898-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	0.45	J	1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.40	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.45	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	0.44	J	1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	0.85	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	590		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	1.8		0.24	0.11	mg/L	1		NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RW-8 (Continued) — Lab Sample ID: 590-15898-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Residual Range Organics (RRO) (C25-C36)	0.28	J	0.40	0.12	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	7.5		0.50	0.13	mg/L	1		300.0	Total/NA
Lead	0.00041	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.11		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	430		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: B-34 — Lab Sample ID: 590-15898-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	83		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	3.9		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.74	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.36	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	5.6		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	1.1	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	1800		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	11		0.26	0.12	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.75		0.43	0.13	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	0.29	J	0.50	0.13	mg/L	1		300.0	Total/NA
Lead	0.00035	J	0.0020	0.00020	mg/L	5		6020B	Total Recoverable
Manganese	0.57		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: Trip Blank — Lab Sample ID: 590-15898-22

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RR-3

Date Collected: 09/14/21 08:45
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-1

Matrix: Water

Method: 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			09/17/21 18:28	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 18:28	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 18:28	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 18:28	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 18:28	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*		*09/17/21 18:28*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/17/21 18:28*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/17/21 18:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/17/21 18:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*		*09/17/21 18:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.19	0.057	ug/L		09/27/21 17:10	09/28/21 12:59	1
2-Methylnaphthalene	ND		0.37	0.072	ug/L		09/27/21 17:10	09/28/21 12:59	1
1-Methylnaphthalene	ND		0.19	0.035	ug/L		09/27/21 17:10	09/28/21 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*109*		*29 - 150*	*09/27/21 17:10*	*09/28/21 12:59*	*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)	ND		0.24	0.11	mg/L		09/20/21 10:42	09/20/21 13:50	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 10:42	09/20/21 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*09/20/21 10:42*	*09/20/21 13:50*	*1*
n-Triacontane-d62	*85*		*50 - 150*	*09/20/21 10:42*	*09/20/21 13:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		200	57	mg/L			09/16/21 07:54	1000
Sulfate	**1800**		500	130	mg/L			09/16/21 07:54	1000

Method: 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		09/17/21 18:17	09/20/21 20:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:28	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RR-3

Lab Sample ID: 590-15898-1
Date Collected: 09/14/21 08:45
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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		09/21/21 18:15	09/22/21 18:28	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**88**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: RR-2

Lab Sample ID: 590-15898-2
Date Collected: 09/14/21 09:02
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/17/21 18:49	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 18:49	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 18:49	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 18:49	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 18:49	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*09/17/21 18:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/17/21 18:49*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/17/21 18:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/17/21 18:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*09/17/21 18:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.064	ug/L		09/27/21 17:10	09/28/21 13:24	1
2-Methylnaphthalene	ND		0.41	0.081	ug/L		09/27/21 17:10	09/28/21 13:24	1
1-Methylnaphthalene	ND		0.21	0.039	ug/L		09/27/21 17:10	09/28/21 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*105*		*29 - 150*	*09/27/21 17:10*	*09/28/21 13:24*	*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) (C10-C25)	ND		0.27	0.12	mg/L		09/20/21 10:42	09/20/21 14:11	1
Residual Range Organics (RRO) (C25-C36)	ND		0.45	0.13	mg/L		09/20/21 10:42	09/20/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*09/20/21 10:42*	*09/20/21 14:11*	*1*
n-Triacontane-d62	*81*		*50 - 150*	*09/20/21 10:42*	*09/20/21 14:11*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RR-2

Lab Sample ID: 590-15898-2
Date Collected: 09/14/21 09:02
Matrix: Water
Date Received: 09/15/21 16:35

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	29	mg/L			09/16/21 08:07	500
Sulfate	**1800**		250	64	mg/L			09/16/21 08:07	500

Method: 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		09/17/21 18:17	09/20/21 20:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:32	5
Manganese	ND		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:32	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**86**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: G-18

Lab Sample ID: 590-15898-3
Date Collected: 09/14/21 09:15
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.37**	**J**	0.40	0.093	ug/L			09/17/21 19:10	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 19:10	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 19:10	1
o-Xylene	**0.52**	**J**	1.0	0.16	ug/L			09/17/21 19:10	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 19:10	1
Xylenes, Total	**0.52**	**J**	3.0	0.44	ug/L			09/17/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*09/17/21 19:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/17/21 19:10*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/17/21 19:10*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/17/21 19:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**250**		150	70	ug/L			09/17/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*09/17/21 19:10*	*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)	**1.2**		0.24	0.11	mg/L		09/20/21 10:42	09/20/21 14:32	1
Residual Range Organics (RRO) (C25-C36)	**0.14**	**J**	0.39	0.12	mg/L		09/20/21 10:42	09/20/21 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*09/20/21 10:42*	*09/20/21 14:32*	*1*
n-Triacontane-d62	*84*		*50 - 150*	*09/20/21 10:42*	*09/20/21 14:32*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: G-18

Lab Sample ID: 590-15898-3
Matrix: Water

Date Collected: 09/14/21 09:15
Date Received: 09/15/21 16:35

Method: 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			09/16/21 08:20	1
Sulfate	**1.9**		0.50	0.13	mg/L			09/16/21 08:20	1

Method: 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		09/17/21 18:17	09/20/21 21:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:35	5
Manganese	**0.12**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:35	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**200**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: DMW-1

Lab Sample ID: 590-15898-4
Matrix: Water

Date Collected: 09/14/21 09:55
Date Received: 09/15/21 16:35

Method: 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			09/17/21 19:31	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 19:31	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 19:31	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 19:31	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 19:31	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*09/17/21 19:31*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/17/21 19:31*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/17/21 19:31*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/17/21 19:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*68.7 - 141*		*09/17/21 19:31*	*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)	**0.26**		0.25	0.12	mg/L		09/20/21 10:42	09/20/21 14:53	1
Residual Range Organics (RRO) (C25-C36)	ND		0.42	0.13	mg/L		09/20/21 10:42	09/20/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*09/20/21 10:42*	*09/20/21 14:53*	*1*
n-Triacontane-d62	*77*		*50 - 150*	*09/20/21 10:42*	*09/20/21 14:53*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: DMW-1

Lab Sample ID: 590-15898-4
Date Collected: 09/14/21 09:55
Matrix: Water
Date Received: 09/15/21 16:35

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		10	2.9	mg/L			09/16/21 08:33	50
Sulfate	ND		25	6.4	mg/L			09/16/21 08:33	50

Method: 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		09/17/21 18:17	09/20/21 21:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 17:21	5
Manganese	**0.41**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 17:21	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: FW-3

Lab Sample ID: 590-15898-5
Date Collected: 09/14/21 10:06
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/17/21 19:52	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 19:52	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 19:52	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 19:52	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 19:52	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*09/17/21 19:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/17/21 19:52*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/17/21 19:52*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/17/21 19:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*09/17/21 19:52*	*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)	**0.18**	**J**	0.26	0.12	mg/L		09/20/21 10:42	09/20/21 15:15	1
Residual Range Organics (RRO) (C25-C36)	ND		0.43	0.13	mg/L		09/20/21 10:42	09/20/21 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*09/20/21 10:42*	*09/20/21 15:15*	*1*
n-Triacontane-d62	*84*		*50 - 150*	*09/20/21 10:42*	*09/20/21 15:15*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-3

Lab Sample ID: 590-15898-5
Date Collected: 09/14/21 10:06
Matrix: Water
Date Received: 09/15/21 16:35

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		20	5.7	mg/L			09/16/21 08:45	100
Sulfate	**1600**		50	13	mg/L			09/16/21 08:45	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00020**	**J**	0.0020	0.00020	mg/L		09/17/21 18:17	09/20/21 21:06	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00024**	**J**	0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:54	5
Manganese	**0.0049**	**J**	0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:54	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**170**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: DMW-3

Lab Sample ID: 590-15898-6
Date Collected: 09/14/21 10:30
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/17/21 20:13	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 20:13	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 20:13	1
o-Xylene	**0.20**	**J**	1.0	0.16	ug/L			09/17/21 20:13	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 20:13	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*09/17/21 20:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/17/21 20:13*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/17/21 20:13*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/17/21 20:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**150**		150	70	ug/L			09/17/21 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*68.7 - 141*		*09/17/21 20:13*	*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)	**0.76**		0.24	0.11	mg/L		09/20/21 10:42	09/20/21 15:36	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 10:42	09/20/21 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*09/20/21 10:42*	*09/20/21 15:36*	*1*
n-Triacontane-d62	*90*		*50 - 150*	*09/20/21 10:42*	*09/20/21 15:36*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: DMW-3

Lab Sample ID: 590-15898-6
Date Collected: 09/14/21 10:30
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/16/21 08:58	1
Sulfate	**0.29**	**J**	0.50	0.13	mg/L			09/16/21 08:58	1

Method: 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		09/17/21 18:17	09/20/21 21:09	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 18:58	5
Manganese	**0.86**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 18:58	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: FW-4

Lab Sample ID: 590-15898-7
Date Collected: 09/14/21 10:45
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/17/21 20:55	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 20:55	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 20:55	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 20:55	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 20:55	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*80 - 120*		*09/17/21 20:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/17/21 20:55*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/17/21 20:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/17/21 20:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*68.7 - 141*		*09/17/21 20:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.062	ug/L		09/27/21 17:10	09/28/21 13:49	1
2-Methylnaphthalene	ND		0.40	0.078	ug/L		09/27/21 17:10	09/28/21 13:49	1
1-Methylnaphthalene	ND		0.20	0.038	ug/L		09/27/21 17:10	09/28/21 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*29 - 150*	*09/27/21 17:10*	*09/28/21 13:49*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-4

Lab Sample ID: 590-15898-7
Date Collected: 09/14/21 10:45
Matrix: Water
Date Received: 09/15/21 16:35

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**		0.22	0.10	mg/L		09/20/21 10:42	09/20/21 15:57	1
Residual Range Organics (RRO) (C25-C36)	ND		0.37	0.11	mg/L		09/20/21 10:42	09/20/21 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*09/20/21 10:42*	*09/20/21 15:57*	*1*
n-Triacontane-d62	*73*		*50 - 150*	*09/20/21 10:42*	*09/20/21 15:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	20	5.7	mg/L			09/16/21 17:40	100
Sulfate	**1200**		50	13	mg/L			09/16/21 17:40	100

Method: 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		09/17/21 18:17	09/20/21 21:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 19:02	5
Manganese	**0.0054**	**J**	0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 19:02	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: FW-5R

Lab Sample ID: 590-15898-8
Date Collected: 09/14/21 11:38
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/17/21 21:16	1
Ethylbenzene	**0.20**	**J**	1.0	0.20	ug/L			09/17/21 21:16	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 21:16	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 21:16	1
Toluene	**0.33**	**J**	1.0	0.31	ug/L			09/17/21 21:16	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*09/17/21 21:16*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/17/21 21:16*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/17/21 21:16*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/17/21 21:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**610**		150	70	ug/L			09/17/21 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*68.7 - 141*		*09/17/21 21:16*	*1*

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-5R

Lab Sample ID: 590-15898-8
Date Collected: 09/14/21 11:38
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.5**		0.22	0.067	ug/L		09/27/21 17:10	09/28/21 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*87*		*29 - 150*	*09/27/21 17:10*	*09/28/21 14:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**310**		43	8.5	ug/L		09/27/21 17:10	09/28/21 15:03	100
1-Methylnaphthalene	**430**		22	4.1	ug/L		09/27/21 17:10	09/28/21 15:03	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*0*	*S1-*	*29 - 150*	*09/27/21 17:10*	*09/28/21 15:03*	*100*

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)	**3.6**		0.27	0.13	mg/L		09/20/21 10:42	09/20/21 16:38	1
Residual Range Organics (RRO) (C25-C36)	ND		0.46	0.14	mg/L		09/20/21 10:42	09/20/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*09/20/21 10:42*	*09/20/21 16:38*	*1*
n-Triacontane-d62	*85*		*50 - 150*	*09/20/21 10:42*	*09/20/21 16:38*	*1*

Method: 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			09/16/21 09:11	1
Sulfate	**0.23**	**J**	0.50	0.13	mg/L			09/16/21 09:11	1

Method: 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		09/17/21 18:17	09/20/21 21:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 19:05	5
Manganese	**0.24**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 19:05	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**270**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: T-3

Lab Sample ID: 590-15898-9
Date Collected: 09/14/21 11:55
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.23**	**J**	0.40	0.093	ug/L			09/17/21 21:36	1
Ethylbenzene	**0.33**	**J**	1.0	0.20	ug/L			09/17/21 21:36	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 21:36	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 21:36	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 21:36	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: T-3

Lab Sample ID: 590-15898-9
Date Collected: 09/14/21 11:55
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*09/17/21 21:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/17/21 21:36*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/17/21 21:36*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/17/21 21:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**810**		150	70	ug/L			09/17/21 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*68.7 - 141*		*09/17/21 21:36*	*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		09/20/21 10:42	09/20/21 16:58	1
Residual Range Organics (RRO) (C25-C36)	ND		0.39	0.12	mg/L		09/20/21 10:42	09/20/21 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*09/20/21 10:42*	*09/20/21 16:58*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*09/20/21 10:42*	*09/20/21 16:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**58**	**J**	200	57	mg/L			09/16/21 09:23	1000
Sulfate	**230**	**J**	500	130	mg/L			09/16/21 09:23	1000

Method: 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		09/17/21 18:17	09/20/21 21:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00022**	**J**	0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 19:09	5
Manganese	**0.032**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 19:09	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**210**		7.0	7.0	mg/L			09/23/21 16:27	1

Client Sample ID: HC-111

Lab Sample ID: 590-15898-10
Date Collected: 09/14/21 11:55
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**26**		0.40	0.093	ug/L			09/17/21 21:58	1
Ethylbenzene	**5.1**		1.0	0.20	ug/L			09/17/21 21:58	1
m,p-Xylene	**1.7**	**J**	2.0	0.28	ug/L			09/17/21 21:58	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: HC-111

Lab Sample ID: 590-15898-10
Date Collected: 09/14/21 11:55
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.52	J	1.0	0.16	ug/L			09/17/21 21:58	1
Toluene	5.3		1.0	0.31	ug/L			09/17/21 21:58	1
Xylenes, Total	2.2	J	3.0	0.44	ug/L			09/17/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*09/17/21 21:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/17/21 21:58*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/17/21 21:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/17/21 21:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1500		150	70	ug/L			09/17/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*09/17/21 21:58*	*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)	4.6		0.22	0.10	mg/L		09/20/21 10:42	09/20/21 17:19	1
Residual Range Organics (RRO) (C25-C36)	0.41		0.37	0.11	mg/L		09/20/21 10:42	09/20/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*09/20/21 10:42*	*09/20/21 17:19*	*1*
n-Triacontane-d62	*83*		*50 - 150*	*09/20/21 10:42*	*09/20/21 17:19*	*1*

Method: 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			09/16/21 11:44	1
Sulfate	0.42	J	0.50	0.13	mg/L			09/16/21 11:44	1

Method: 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		09/17/21 18:17	09/20/21 21:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 19:13	5
Manganese	0.48		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 19:13	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	310		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: FW-13

Lab Sample ID: 590-15898-11
Date Collected: 09/14/21 12:49
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/17/21 22:18	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-13

Date Collected: 09/14/21 12:49
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 22:18	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 22:18	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 22:18	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 22:18	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*09/17/21 22:18*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/17/21 22:18*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/17/21 22:18*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/17/21 22:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*09/17/21 22:18*	*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**	0.27	0.12	mg/L		09/20/21 10:42	09/20/21 17:40	1
Residual Range Organics (RRO) (C25-C36)	ND		0.45	0.14	mg/L		09/20/21 10:42	09/20/21 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*09/20/21 10:42*	*09/20/21 17:40*	*1*
n-Triacontane-d62	*87*		*50 - 150*	*09/20/21 10:42*	*09/20/21 17:40*	*1*

Method: 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			09/16/21 09:42	1
Sulfate	**0.18**	**J**	0.50	0.13	mg/L			09/16/21 09:42	1

Method: 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		09/17/21 18:17	09/20/21 21:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 19:17	5
Manganese	**0.23**		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 19:17	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**170**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-13 DUP

Date Collected: 09/14/21 12:49
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-12

Matrix: Water

Method: 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			09/20/21 13:10	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 13:10	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 13:10	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 13:10	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 13:10	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*09/20/21 13:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 13:10*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/20/21 13:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/20/21 13:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*09/20/21 13:10*	*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)	ND		0.28	0.13	mg/L		09/20/21 10:42	09/20/21 18:00	1
Residual Range Organics (RRO) (C25-C36)	ND		0.46	0.14	mg/L		09/20/21 10:42	09/20/21 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*09/20/21 10:42*	*09/20/21 18:00*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*09/20/21 10:42*	*09/20/21 18:00*	*1*

Method: 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			09/16/21 09:54	1
Sulfate	**0.18**	**J**	0.50	0.13	mg/L			09/16/21 09:54	1

Method: 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		09/23/21 20:56	09/24/21 14:23	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 14:19	5
Manganese	**0.22**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 14:19	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**120**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: DMW-2

Date Collected: 09/14/21 12:55
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-13

Matrix: Water

Method: 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			09/20/21 13:31	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 13:31	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 13:31	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 13:31	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 13:31	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 120*		*09/20/21 13:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/20/21 13:31*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/20/21 13:31*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/20/21 13:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*		*09/20/21 13:31*	*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)	**0.57**		0.26	0.12	mg/L		09/20/21 10:42	09/20/21 18:21	1
Residual Range Organics (RRO) (C25-C36)	ND		0.43	0.13	mg/L		09/20/21 10:42	09/20/21 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*09/20/21 10:42*	*09/20/21 18:21*	*1*
n-Triacontane-d62	*81*		*50 - 150*	*09/20/21 10:42*	*09/20/21 18:21*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		10	2.9	mg/L			09/16/21 11:56	50
Sulfate	**500**		25	6.4	mg/L			09/16/21 11:56	50

Method: 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		09/23/21 20:56	09/24/21 15:04	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:52	5
Manganese	**0.22**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 15:52	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**390**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: G-8

Date Collected: 09/14/21 13:15
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.30**	**J**	0.40	0.093	ug/L			09/20/21 13:52	1
Ethylbenzene	**16**		1.0	0.20	ug/L			09/20/21 13:52	1
m,p-Xylene	**0.42**	**J**	2.0	0.28	ug/L			09/20/21 13:52	1
o-Xylene	**0.28**	**J**	1.0	0.16	ug/L			09/20/21 13:52	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 13:52	1
Xylenes, Total	**0.71**	**J**	3.0	0.44	ug/L			09/20/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*09/20/21 13:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/20/21 13:52*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/20/21 13:52*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/20/21 13:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**360**		150	70	ug/L			09/20/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*68.7 - 141*		*09/20/21 13:52*	*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)	**0.38**		0.24	0.11	mg/L		09/20/21 10:42	09/20/21 18:42	1
Residual Range Organics (RRO) (C25-C36)	ND		0.41	0.12	mg/L		09/20/21 10:42	09/20/21 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*09/20/21 10:42*	*09/20/21 18:42*	*1*
n-Triacontane-d62	*80*		*50 - 150*	*09/20/21 10:42*	*09/20/21 18:42*	*1*

Method: 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			09/16/21 10:58	4
Sulfate	**330**		2.0	0.51	mg/L			09/16/21 10:58	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00079**	**J**	0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:56	5
Manganese	**0.097**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 15:56	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**460**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-14

Date Collected: 09/14/21 13:45
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-15

Matrix: Water

Method: 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			09/20/21 14:13	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 14:13	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 14:13	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 14:13	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 14:13	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*09/20/21 14:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/20/21 14:13*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/20/21 14:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/20/21 14:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*		*09/20/21 14:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.062	ug/L		09/27/21 17:10	09/28/21 14:39	1
2-Methylnaphthalene	ND		0.40	0.078	ug/L		09/27/21 17:10	09/28/21 14:39	1
1-Methylnaphthalene	**0.072**	**J**	0.20	0.038	ug/L		09/27/21 17:10	09/28/21 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*106*		*29 - 150*	*09/27/21 17:10*	*09/28/21 14:39*	*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)	ND		0.22	0.099	mg/L		09/20/21 10:42	09/20/21 19:02	1
Residual Range Organics (RRO) (C25-C36)	ND		0.36	0.11	mg/L		09/20/21 10:42	09/20/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*09/20/21 10:42*	*09/20/21 19:02*	*1*
n-Triacontane-d62	*80*		*50 - 150*	*09/20/21 10:42*	*09/20/21 19:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.1**	**J**	20	5.7	mg/L			09/16/21 12:09	100
Sulfate	**1700**		50	13	mg/L			09/16/21 12:09	100

Method: 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		09/23/21 20:56	09/24/21 15:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:00	5

Client Sample ID: FW-14

Lab Sample ID: 590-15898-15
Date Collected: 09/14/21 13:45
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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		09/23/21 20:56	09/24/21 16:00	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**84**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: RW-2

Lab Sample ID: 590-15898-16
Date Collected: 09/14/21 14:30
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		0.40	0.093	ug/L			09/20/21 14:34	1
Ethylbenzene	**3.5**		1.0	0.20	ug/L			09/20/21 14:34	1
m,p-Xylene	**0.28**	**J**	2.0	0.28	ug/L			09/20/21 14:34	1
o-Xylene	**0.71**	**J**	1.0	0.16	ug/L			09/20/21 14:34	1
Toluene	**0.50**	**J**	1.0	0.31	ug/L			09/20/21 14:34	1
Xylenes, Total	**0.99**	**J**	3.0	0.44	ug/L			09/20/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*09/20/21 14:34*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/20/21 14:34*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/20/21 14:34*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/20/21 14:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1200**		150	70	ug/L			09/20/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*68.7 - 141*		*09/20/21 14:34*	*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)	**0.94**		0.24	0.11	mg/L		09/20/21 10:42	09/20/21 19:23	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 10:42	09/20/21 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*09/20/21 10:42*	*09/20/21 19:23*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*09/20/21 10:42*	*09/20/21 19:23*	*1*

Method: 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			09/16/21 13:38	1
Sulfate	**0.70**		0.50	0.13	mg/L			09/16/21 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00029**	**J**	0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:15	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RW-2

Lab Sample ID: 590-15898-16
Date Collected: 09/14/21 14:30
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:03	5
Manganese	**0.17**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 16:03	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**410**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: B-17B

Lab Sample ID: 590-15898-17
Date Collected: 09/14/21 14:23
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/20/21 14:55	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 14:55	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 14:55	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 14:55	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 14:55	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*09/20/21 14:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/20/21 14:55*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/20/21 14:55*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/20/21 14:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*09/20/21 14:55*	*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)	ND		0.27	0.12	mg/L		09/20/21 10:42	09/20/21 19:44	1
Residual Range Organics (RRO) (C25-C36)	ND		0.44	0.13	mg/L		09/20/21 10:42	09/20/21 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/20/21 10:42*	*09/20/21 19:44*	*1*
n-Triacontane-d62	*84*		*50 - 150*	*09/20/21 10:42*	*09/20/21 19:44*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.62**		0.20	0.057	mg/L			09/16/21 12:47	1
Sulfate	**230**		5.0	1.3	mg/L			09/16/21 17:53	10

Method: 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		09/23/21 20:56	09/24/21 15:19	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: B-17B

Lab Sample ID: 590-15898-17
Date Collected: 09/14/21 14:23
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:07	5
Manganese	**0.28**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 16:07	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**34**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: FW-15

Lab Sample ID: 590-15898-18
Date Collected: 09/14/21 14:35
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/20/21 15:16	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 15:16	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 15:16	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 15:16	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 15:16	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*09/20/21 15:16*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/20/21 15:16*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/20/21 15:16*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/20/21 15:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*68.7 - 141*		*09/20/21 15:16*	*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)	ND		0.22	0.10	mg/L		09/20/21 10:42	09/20/21 20:25	1
Residual Range Organics (RRO) (C25-C36)	ND		0.36	0.11	mg/L		09/20/21 10:42	09/20/21 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*09/20/21 10:42*	*09/20/21 20:25*	*1*
n-Triacontane-d62	*78*		*50 - 150*	*09/20/21 10:42*	*09/20/21 20:25*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**7.0**	**J**	20	5.7	mg/L			09/16/21 11:23	100
Sulfate	**1900**		50	13	mg/L			09/16/21 11:23	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00062**	**J**	0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:22	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-15

Lab Sample ID: 590-15898-18
Date Collected: 09/14/21 14:35
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:11	5
Manganese	ND		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 16:11	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**41**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: RR-1

Lab Sample ID: 590-15898-19
Date Collected: 09/14/21 15:35
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/20/21 15:37	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 15:37	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 15:37	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 15:37	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 15:37	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*09/20/21 15:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 15:37*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/20/21 15:37*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/20/21 15:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**110**	**J**	150	70	ug/L			09/20/21 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*09/20/21 15:37*	*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)	**0.12**	**J**	0.25	0.11	mg/L		09/20/21 10:42	09/20/21 20:46	1
Residual Range Organics (RRO) (C25-C36)	ND		0.42	0.12	mg/L		09/20/21 10:42	09/20/21 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*09/20/21 10:42*	*09/20/21 20:46*	*1*
n-Triacontane-d62	*88*		*50 - 150*	*09/20/21 10:42*	*09/20/21 20:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**5.7**	**J**	20	5.7	mg/L			09/16/21 13:00	100
Sulfate	**1600**		50	13	mg/L			09/16/21 13:00	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00023**	**J**	0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:26	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RR-1

Lab Sample ID: 590-15898-19
Date Collected: 09/14/21 15:35
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:14	5
Manganese	**0.014**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 16:14	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**42**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: RW-8

Lab Sample ID: 590-15898-20
Date Collected: 09/14/21 15:35
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.3**		0.40	0.093	ug/L			09/20/21 16:18	1
Ethylbenzene	**0.45**	**J**	1.0	0.20	ug/L			09/20/21 16:18	1
m,p-Xylene	**0.40**	**J**	2.0	0.28	ug/L			09/20/21 16:18	1
o-Xylene	**0.45**	**J**	1.0	0.16	ug/L			09/20/21 16:18	1
Toluene	**0.44**	**J**	1.0	0.31	ug/L			09/20/21 16:18	1
Xylenes, Total	**0.85**	**J**	3.0	0.44	ug/L			09/20/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*09/20/21 16:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 16:18*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/20/21 16:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/20/21 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**590**		150	70	ug/L			09/20/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*09/20/21 16:18*	*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)	**1.8**		0.24	0.11	mg/L		09/20/21 10:42	09/20/21 21:07	1
Residual Range Organics (RRO) (C25-C36)	**0.28**	**J**	0.40	0.12	mg/L		09/20/21 10:42	09/20/21 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/20/21 10:42*	*09/20/21 21:07*	*1*
n-Triacontane-d62	*87*		*50 - 150*	*09/20/21 10:42*	*09/20/21 21:07*	*1*

Method: 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			09/16/21 13:13	1
Sulfate	**7.5**		0.50	0.13	mg/L			09/16/21 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00041**	**J**	0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:30	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RW-8

Lab Sample ID: 590-15898-20
Date Collected: 09/14/21 15:35
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:18	5
Manganese	**0.11**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 16:18	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**430**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: B-34

Lab Sample ID: 590-15898-21
Date Collected: 09/14/21 15:43
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**83**		0.40	0.093	ug/L			09/20/21 16:39	1
Ethylbenzene	**3.9**		1.0	0.20	ug/L			09/20/21 16:39	1
m,p-Xylene	**0.74**	**J**	2.0	0.28	ug/L			09/20/21 16:39	1
o-Xylene	**0.36**	**J**	1.0	0.16	ug/L			09/20/21 16:39	1
Toluene	**5.6**		1.0	0.31	ug/L			09/20/21 16:39	1
Xylenes, Total	**1.1**	**J**	3.0	0.44	ug/L			09/20/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/20/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/20/21 16:39*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/20/21 16:39*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/20/21 16:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1800**		150	70	ug/L			09/20/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*68.7 - 141*		*09/20/21 16:39*	*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)	**11**		0.26	0.12	mg/L		09/20/21 14:41	09/21/21 05:24	1
Residual Range Organics (RRO) (C25-C36)	**0.75**		0.43	0.13	mg/L		09/20/21 14:41	09/21/21 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*50 - 150*	*09/20/21 14:41*	*09/21/21 05:24*	*1*
n-Triacontane-d62	*103*		*50 - 150*	*09/20/21 14:41*	*09/21/21 05:24*	*1*

Method: 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			09/16/21 13:25	1
Sulfate	**0.29**	**J**	0.50	0.13	mg/L			09/16/21 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00035**	**J**	0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 15:33	5

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: B-34

Lab Sample ID: 590-15898-21
Date Collected: 09/14/21 15:43
Matrix: Water
Date Received: 09/15/21 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 16:22	5
Manganese	**0.57**		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 16:22	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**520**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-15898-22
Date Collected: 09/14/21 08:00
Matrix: Water
Date Received: 09/15/21 16:35

Method: 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			09/20/21 17:01	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 17:01	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 17:01	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 17:01	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 17:01	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*09/20/21 17:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 17:01*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/20/21 17:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/20/21 17:01*	*1*

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

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

Lab Sample ID: MB 590-33159/6
Matrix: Water
Analysis Batch: 33159

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			09/17/21 13:14	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/21 13:14	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/17/21 13:14	1
o-Xylene	ND		1.0	0.16	ug/L			09/17/21 13:14	1
Toluene	ND		1.0	0.31	ug/L			09/17/21 13:14	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/17/21 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*09/17/21 13:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/17/21 13:14*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/17/21 13:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/17/21 13:14*	*1*

Lab Sample ID: LCS 590-33159/4
Matrix: Water
Analysis Batch: 33159

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	11.0		ug/L		110	80 - 126
Ethylbenzene	10.0	10.4		ug/L		104	80 - 128
m,p-Xylene	10.0	10.1		ug/L		101	80 - 127
o-Xylene	10.0	10.2		ug/L		102	80 - 126
Toluene	10.0	10.1		ug/L		101	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 590-33159/1003
Matrix: Water
Analysis Batch: 33159

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	11.3		ug/L		113	80 - 126	3	18
Ethylbenzene	10.0	10.5		ug/L		105	80 - 128	1	18
m,p-Xylene	10.0	10.3		ug/L		103	80 - 127	2	18
o-Xylene	10.0	10.3		ug/L		103	80 - 126	1	17
Toluene	10.0	10.7		ug/L		107	80 - 129	6	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: MB 590-33177/7
Matrix: Water
Analysis Batch: 33177

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			09/20/21 12:28	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 12:28	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 12:28	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 12:28	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 12:28	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*09/20/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 12:28*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/20/21 12:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/20/21 12:28*	*1*

Lab Sample ID: LCS 590-33177/5
Matrix: Water
Analysis Batch: 33177

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	11.8		ug/L		118	80 - 126
Ethylbenzene	10.0	10.8		ug/L		108	80 - 128
m,p-Xylene	10.0	10.5		ug/L		105	80 - 127
o-Xylene	10.0	11.0		ug/L		110	80 - 126
Toluene	10.0	10.5		ug/L		105	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: LCSD 590-33177/1004
Matrix: Water
Analysis Batch: 33177

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	11.2		ug/L		112	80 - 126	5	18
Ethylbenzene	10.0	11.0		ug/L		110	80 - 128	2	18
m,p-Xylene	10.0	10.7		ug/L		107	80 - 127	1	18
o-Xylene	10.0	10.8		ug/L		108	80 - 126	2	17
Toluene	10.0	10.4		ug/L		104	80 - 129	1	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: MB 590-33158/6
Matrix: Water
Analysis Batch: 33158

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/17/21 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*09/17/21 13:14*	*1*

Lab Sample ID: LCS 590-33158/1005
Matrix: Water
Analysis Batch: 33158

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)	*98*		*68.7 - 141*

Lab Sample ID: LCSD 590-33158/1016
Matrix: Water
Analysis Batch: 33158

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	1070		ug/L		107	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*

Lab Sample ID: MB 590-33176/7
Matrix: Water
Analysis Batch: 33176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*09/20/21 12:28*	*1*

Lab Sample ID: LCS 590-33176/1006
Matrix: Water
Analysis Batch: 33176

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1000	1060		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*

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

Lab Sample ID: LCSD 590-33176/1017
Matrix: Water
Analysis Batch: 33176

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	1090		ug/L		109	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*

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

Lab Sample ID: MB 580-368959/1-A
Matrix: Water
Analysis Batch: 369009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.062	ug/L		09/27/21 17:10	09/28/21 11:45	1
2-Methylnaphthalene	ND		0.40	0.078	ug/L		09/27/21 17:10	09/28/21 11:45	1
1-Methylnaphthalene	ND		0.20	0.038	ug/L		09/27/21 17:10	09/28/21 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*85*		*29 - 150*	*09/27/21 17:10*	*09/28/21 11:45*	*1*

Lab Sample ID: LCS 580-368959/2-A
Matrix: Water
Analysis Batch: 369009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368959

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			1.60	1.19		ug/L		75	34 - 120		
2-Methylnaphthalene			1.60	0.759		ug/L		47	33 - 120		
1-Methylnaphthalene			1.60	1.58		ug/L		99	29 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*93*		*29 - 150*

Lab Sample ID: LCSD 580-368959/3-A
Matrix: Water
Analysis Batch: 369009

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 368959

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.60	1.34		ug/L		84	34 - 120	11	35
2-Methylnaphthalene			1.60	0.816		ug/L		51	33 - 120	7	35
1-Methylnaphthalene			1.60	1.82		ug/L		114	29 - 120	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*99*		*29 - 150*

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

Lab Sample ID: MB 590-33175/1-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33175

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		09/20/21 10:42	09/20/21 12:47	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 10:42	09/20/21 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*09/20/21 10:42*	*09/20/21 12:47*	*1*
n-Triacontane-d62	*78*		*50 - 150*	*09/20/21 10:42*	*09/20/21 12:47*	*1*

Lab Sample ID: LCS 590-33175/2-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.20		mg/L		75	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.52		mg/L		95	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*92*		*50 - 150*
n-Triacontane-d62	*91*		*50 - 150*

Lab Sample ID: LCSD 590-33175/3-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.11		mg/L		69	50 - 150	8	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.42		mg/L		89	50 - 150	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*88*		*50 - 150*
n-Triacontane-d62	*87*		*50 - 150*

Lab Sample ID: MB 590-33186/1-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33186

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		09/20/21 14:41	09/20/21 21:27	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 14:41	09/20/21 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/20/21 14:41*	*09/20/21 21:27*	*1*

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

Lab Sample ID: MB 590-33186/1-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33186

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Triacontane-d62	*85*		*50 - 150*	*09/20/21 14:41*	*09/20/21 21:27*	*1*

Lab Sample ID: LCS 590-33186/2-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.16		mg/L		72	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.40		mg/L		87	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*
n-Triacontane-d62	*90*		*50 - 150*

Lab Sample ID: LCSD 590-33186/3-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33186

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.21		mg/L		76	50 - 150	4	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.47		mg/L		92	50 - 150	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*
n-Triacontane-d62	*93*		*50 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-33135/1003
Matrix: Water
Analysis Batch: 33135

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			09/16/21 07:29	1

Lab Sample ID: LCS 590-33135/1004
Matrix: Water
Analysis Batch: 33135

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	12.3		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 590-15898-11 MS — **Client Sample ID: FW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	0.18	J	11.4	12.3		mg/L		107	80 - 120		

Lab Sample ID: 590-15898-11 MSD — **Client Sample ID: FW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.18	J	11.4	12.3		mg/L		106	80 - 120	0	10

Lab Sample ID: MB 590-33136/1003 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			09/16/21 07:29	1

Lab Sample ID: LCS 590-33136/1004 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	5.03		mg/L		101	90 - 110

Lab Sample ID: 590-15898-11 MS — **Client Sample ID: FW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND		4.55	4.75		mg/L		105	80 - 120		

Lab Sample ID: 590-15898-11 MSD — **Client Sample ID: FW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		4.55	4.76		mg/L		105	80 - 120	0	12.1

Lab Sample ID: MB 590-33147/1001 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			09/16/21 15:56	1

Lab Sample ID: LCS 590-33147/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	12.5	12.5		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-33148/1001
Matrix: Water
Analysis Batch: 33148

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			09/16/21 15:56	1

Lab Sample ID: LCS 590-33148/1002
Matrix: Water
Analysis Batch: 33148

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	5.01		mg/L		100	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-368167/23-A
Matrix: Water
Analysis Batch: 368372

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 368167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/17/21 18:17	09/20/21 19:29	5

Lab Sample ID: LCS 580-368167/24-A
Matrix: Water
Analysis Batch: 368372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 368167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-368167/25-A
Matrix: Water
Analysis Batch: 368372

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 368167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	1.02		mg/L		102	80 - 120	1	20

Lab Sample ID: MB 580-368485/24-A
Matrix: Water
Analysis Batch: 368612

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 368485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/21/21 18:15	09/22/21 17:17	5
Manganese	ND		0.010	0.0023	mg/L		09/21/21 18:15	09/22/21 17:17	5

Lab Sample ID: LCS 580-368485/25-A
Matrix: Water
Analysis Batch: 368612

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 368485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.986		mg/L		99	80 - 120
Manganese	1.00	0.970		mg/L		97	80 - 120

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

Lab Sample ID: LCSD 580-368485/26-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368612 — **Prep Batch: 368485**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.981		mg/L		98	80 - 120	0	20
Manganese	1.00	0.946		mg/L		95	80 - 120	3	20

Lab Sample ID: MB 580-368732/24-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368878 — **Prep Batch: 368732**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/23/21 20:56	09/24/21 14:15	5
Manganese	ND		0.010	0.0023	mg/L		09/23/21 20:56	09/24/21 14:15	5

Lab Sample ID: LCS 580-368732/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368878 — **Prep Batch: 368732**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.987		mg/L		99	80 - 120
Manganese	1.00	0.984		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-368732/26-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368878 — **Prep Batch: 368732**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.981		mg/L		98	80 - 120	1	20
Manganese	1.00	0.973		mg/L		97	80 - 120	1	20

Lab Sample ID: 590-15898-12 MS — **Client Sample ID: FW-13 DUP**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368878 — **Prep Batch: 368732**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		1.00	1.06		mg/L		106	80 - 120
Manganese	0.078		1.00	1.15		mg/L		107	80 - 120

Lab Sample ID: 590-15898-12 MSD — **Client Sample ID: FW-13 DUP**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368878 — **Prep Batch: 368732**

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	0.078		1.00	1.11		mg/L		103	80 - 120	3	20

Lab Sample ID: 590-15898-12 DU — **Client Sample ID: FW-13 DUP**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 368878 — **Prep Batch: 368732**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20
Manganese	0.078		0.0794		mg/L		2	20

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-368707/2
Matrix: Water
Analysis Batch: 368707

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	93.1		mg/L		93	85 - 115		

Lab Sample ID: LCS 580-368714/2
Matrix: Water
Analysis Batch: 368714

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	97.3		mg/L		97	85 - 115		

QC Association Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

GC/MS VOA

Analysis Batch: 33158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	NWTPH-Gx	
590-15898-2	RR-2	Total/NA	Water	NWTPH-Gx	
590-15898-3	G-18	Total/NA	Water	NWTPH-Gx	
590-15898-4	DMW-1	Total/NA	Water	NWTPH-Gx	
590-15898-5	FW-3	Total/NA	Water	NWTPH-Gx	
590-15898-6	DMW-3	Total/NA	Water	NWTPH-Gx	
590-15898-7	FW-4	Total/NA	Water	NWTPH-Gx	
590-15898-8	FW-5R	Total/NA	Water	NWTPH-Gx	
590-15898-9	T-3	Total/NA	Water	NWTPH-Gx	
590-15898-10	HC-111	Total/NA	Water	NWTPH-Gx	
590-15898-11	FW-13	Total/NA	Water	NWTPH-Gx	
MB 590-33158/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-33158/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-33158/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 33159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	8260D	
590-15898-2	RR-2	Total/NA	Water	8260D	
590-15898-3	G-18	Total/NA	Water	8260D	
590-15898-4	DMW-1	Total/NA	Water	8260D	
590-15898-5	FW-3	Total/NA	Water	8260D	
590-15898-6	DMW-3	Total/NA	Water	8260D	
590-15898-7	FW-4	Total/NA	Water	8260D	
590-15898-8	FW-5R	Total/NA	Water	8260D	
590-15898-9	T-3	Total/NA	Water	8260D	
590-15898-10	HC-111	Total/NA	Water	8260D	
590-15898-11	FW-13	Total/NA	Water	8260D	
MB 590-33159/6	Method Blank	Total/NA	Water	8260D	
LCS 590-33159/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-33159/1003	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 33176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-12	FW-13 DUP	Total/NA	Water	NWTPH-Gx	
590-15898-13	DMW-2	Total/NA	Water	NWTPH-Gx	
590-15898-14	G-8	Total/NA	Water	NWTPH-Gx	
590-15898-15	FW-14	Total/NA	Water	NWTPH-Gx	
590-15898-16	RW-2	Total/NA	Water	NWTPH-Gx	
590-15898-17	B-17B	Total/NA	Water	NWTPH-Gx	
590-15898-18	FW-15	Total/NA	Water	NWTPH-Gx	
590-15898-19	RR-1	Total/NA	Water	NWTPH-Gx	
590-15898-20	RW-8	Total/NA	Water	NWTPH-Gx	
590-15898-21	B-34	Total/NA	Water	NWTPH-Gx	
MB 590-33176/7	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-33176/1006	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-33176/1017	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 33177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-12	FW-13 DUP	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 33177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-13	DMW-2	Total/NA	Water	8260D	
590-15898-14	G-8	Total/NA	Water	8260D	
590-15898-15	FW-14	Total/NA	Water	8260D	
590-15898-16	RW-2	Total/NA	Water	8260D	
590-15898-17	B-17B	Total/NA	Water	8260D	
590-15898-18	FW-15	Total/NA	Water	8260D	
590-15898-19	RR-1	Total/NA	Water	8260D	
590-15898-20	RW-8	Total/NA	Water	8260D	
590-15898-21	B-34	Total/NA	Water	8260D	
590-15898-22	Trip Blank	Total/NA	Water	8260D	
MB 590-33177/7	Method Blank	Total/NA	Water	8260D	
LCS 590-33177/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-33177/1004	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 368959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	3510C	
590-15898-2	RR-2	Total/NA	Water	3510C	
590-15898-7	FW-4	Total/NA	Water	3510C	
590-15898-8 - DL	FW-5R	Total/NA	Water	3510C	
590-15898-8	FW-5R	Total/NA	Water	3510C	
590-15898-15	FW-14	Total/NA	Water	3510C	
MB 580-368959/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-368959/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-368959/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 369009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	8270E SIM	368959
590-15898-2	RR-2	Total/NA	Water	8270E SIM	368959
590-15898-7	FW-4	Total/NA	Water	8270E SIM	368959
590-15898-8	FW-5R	Total/NA	Water	8270E SIM	368959
590-15898-8 - DL	FW-5R	Total/NA	Water	8270E SIM	368959
590-15898-15	FW-14	Total/NA	Water	8270E SIM	368959
MB 580-368959/1-A	Method Blank	Total/NA	Water	8270E SIM	368959
LCS 580-368959/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	368959
LCSD 580-368959/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	368959

GC Semi VOA

Prep Batch: 33175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	3510C	
590-15898-2	RR-2	Total/NA	Water	3510C	
590-15898-3	G-18	Total/NA	Water	3510C	
590-15898-4	DMW-1	Total/NA	Water	3510C	
590-15898-5	FW-3	Total/NA	Water	3510C	
590-15898-6	DMW-3	Total/NA	Water	3510C	
590-15898-7	FW-4	Total/NA	Water	3510C	
590-15898-8	FW-5R	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 33175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-9	T-3	Total/NA	Water	3510C	
590-15898-10	HC-111	Total/NA	Water	3510C	
590-15898-11	FW-13	Total/NA	Water	3510C	
590-15898-12	FW-13 DUP	Total/NA	Water	3510C	
590-15898-13	DMW-2	Total/NA	Water	3510C	
590-15898-14	G-8	Total/NA	Water	3510C	
590-15898-15	FW-14	Total/NA	Water	3510C	
590-15898-16	RW-2	Total/NA	Water	3510C	
590-15898-17	B-17B	Total/NA	Water	3510C	
590-15898-18	FW-15	Total/NA	Water	3510C	
590-15898-19	RR-1	Total/NA	Water	3510C	
590-15898-20	RW-8	Total/NA	Water	3510C	
MB 590-33175/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-33175/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-33175/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 33182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	NWTPH-Dx	33175
590-15898-2	RR-2	Total/NA	Water	NWTPH-Dx	33175
590-15898-3	G-18	Total/NA	Water	NWTPH-Dx	33175
590-15898-4	DMW-1	Total/NA	Water	NWTPH-Dx	33175
590-15898-5	FW-3	Total/NA	Water	NWTPH-Dx	33175
590-15898-6	DMW-3	Total/NA	Water	NWTPH-Dx	33175
590-15898-7	FW-4	Total/NA	Water	NWTPH-Dx	33175
590-15898-8	FW-5R	Total/NA	Water	NWTPH-Dx	33175
590-15898-9	T-3	Total/NA	Water	NWTPH-Dx	33175
590-15898-10	HC-111	Total/NA	Water	NWTPH-Dx	33175
590-15898-11	FW-13	Total/NA	Water	NWTPH-Dx	33175
590-15898-12	FW-13 DUP	Total/NA	Water	NWTPH-Dx	33175
590-15898-13	DMW-2	Total/NA	Water	NWTPH-Dx	33175
590-15898-14	G-8	Total/NA	Water	NWTPH-Dx	33175
590-15898-15	FW-14	Total/NA	Water	NWTPH-Dx	33175
590-15898-16	RW-2	Total/NA	Water	NWTPH-Dx	33175
590-15898-17	B-17B	Total/NA	Water	NWTPH-Dx	33175
590-15898-18	FW-15	Total/NA	Water	NWTPH-Dx	33175
590-15898-19	RR-1	Total/NA	Water	NWTPH-Dx	33175
590-15898-20	RW-8	Total/NA	Water	NWTPH-Dx	33175
590-15898-21	B-34	Total/NA	Water	NWTPH-Dx	33186
MB 590-33175/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	33175
MB 590-33186/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	33186
LCS 590-33175/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	33175
LCS 590-33186/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	33186
LCSD 590-33175/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	33175
LCSD 590-33186/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	33186

Prep Batch: 33186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-21	B-34	Total/NA	Water	3510C	
MB 590-33186/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-33186/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 33186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 590-33186/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

HPLC/IC

Analysis Batch: 33135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	300.0	
590-15898-2	RR-2	Total/NA	Water	300.0	
590-15898-3	G-18	Total/NA	Water	300.0	
590-15898-4	DMW-1	Total/NA	Water	300.0	
590-15898-5	FW-3	Total/NA	Water	300.0	
590-15898-6	DMW-3	Total/NA	Water	300.0	
590-15898-8	FW-5R	Total/NA	Water	300.0	
590-15898-9	T-3	Total/NA	Water	300.0	
590-15898-10	HC-111	Total/NA	Water	300.0	
590-15898-11	FW-13	Total/NA	Water	300.0	
590-15898-12	FW-13 DUP	Total/NA	Water	300.0	
590-15898-13	DMW-2	Total/NA	Water	300.0	
590-15898-14	G-8	Total/NA	Water	300.0	
590-15898-15	FW-14	Total/NA	Water	300.0	
590-15898-16	RW-2	Total/NA	Water	300.0	
590-15898-18	FW-15	Total/NA	Water	300.0	
590-15898-19	RR-1	Total/NA	Water	300.0	
590-15898-20	RW-8	Total/NA	Water	300.0	
590-15898-21	B-34	Total/NA	Water	300.0	
MB 590-33135/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-33135/1004	Lab Control Sample	Total/NA	Water	300.0	
590-15898-11 MS	FW-13	Total/NA	Water	300.0	
590-15898-11 MSD	FW-13	Total/NA	Water	300.0	

Analysis Batch: 33136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	300.0	
590-15898-2	RR-2	Total/NA	Water	300.0	
590-15898-3	G-18	Total/NA	Water	300.0	
590-15898-4	DMW-1	Total/NA	Water	300.0	
590-15898-5	FW-3	Total/NA	Water	300.0	
590-15898-6	DMW-3	Total/NA	Water	300.0	
590-15898-8	FW-5R	Total/NA	Water	300.0	
590-15898-9	T-3	Total/NA	Water	300.0	
590-15898-10	HC-111	Total/NA	Water	300.0	
590-15898-11	FW-13	Total/NA	Water	300.0	
590-15898-12	FW-13 DUP	Total/NA	Water	300.0	
590-15898-13	DMW-2	Total/NA	Water	300.0	
590-15898-14	G-8	Total/NA	Water	300.0	
590-15898-15	FW-14	Total/NA	Water	300.0	
590-15898-16	RW-2	Total/NA	Water	300.0	
590-15898-17	B-17B	Total/NA	Water	300.0	
590-15898-18	FW-15	Total/NA	Water	300.0	
590-15898-19	RR-1	Total/NA	Water	300.0	
590-15898-20	RW-8	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 33136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-21	B-34	Total/NA	Water	300.0	
MB 590-33136/1003	Method Blank	Total/NA	Water	300.0	
LCS 590-33136/1004	Lab Control Sample	Total/NA	Water	300.0	
590-15898-11 MS	FW-13	Total/NA	Water	300.0	
590-15898-11 MSD	FW-13	Total/NA	Water	300.0	

Analysis Batch: 33147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-7	FW-4	Total/NA	Water	300.0	
590-15898-17	B-17B	Total/NA	Water	300.0	
MB 590-33147/1001	Method Blank	Total/NA	Water	300.0	
LCS 590-33147/1002	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 33148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-7	FW-4	Total/NA	Water	300.0	
MB 590-33148/1001	Method Blank	Total/NA	Water	300.0	
LCS 590-33148/1002	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 368167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total Recoverable	Water	3005A	
590-15898-2	RR-2	Total Recoverable	Water	3005A	
590-15898-3	G-18	Total Recoverable	Water	3005A	
590-15898-4	DMW-1	Total Recoverable	Water	3005A	
590-15898-5	FW-3	Total Recoverable	Water	3005A	
590-15898-6	DMW-3	Total Recoverable	Water	3005A	
590-15898-7	FW-4	Total Recoverable	Water	3005A	
590-15898-8	FW-5R	Total Recoverable	Water	3005A	
590-15898-9	T-3	Total Recoverable	Water	3005A	
590-15898-10	HC-111	Total Recoverable	Water	3005A	
590-15898-11	FW-13	Total Recoverable	Water	3005A	
MB 580-368167/23-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-368167/24-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368167/25-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 368372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total Recoverable	Water	6020B	368167
590-15898-2	RR-2	Total Recoverable	Water	6020B	368167
590-15898-3	G-18	Total Recoverable	Water	6020B	368167
590-15898-4	DMW-1	Total Recoverable	Water	6020B	368167
590-15898-5	FW-3	Total Recoverable	Water	6020B	368167
590-15898-6	DMW-3	Total Recoverable	Water	6020B	368167
590-15898-7	FW-4	Total Recoverable	Water	6020B	368167
590-15898-8	FW-5R	Total Recoverable	Water	6020B	368167
590-15898-9	T-3	Total Recoverable	Water	6020B	368167
590-15898-10	HC-111	Total Recoverable	Water	6020B	368167
590-15898-11	FW-13	Total Recoverable	Water	6020B	368167

Metals (Continued)

Analysis Batch: 368372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-368167/23-A	Method Blank	Total Recoverable	Water	6020B	368167
LCS 580-368167/24-A	Lab Control Sample	Total Recoverable	Water	6020B	368167
LCSD 580-368167/25-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368167

Prep Batch: 368485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Dissolved	Water	3005A	
590-15898-2	RR-2	Dissolved	Water	3005A	
590-15898-3	G-18	Dissolved	Water	3005A	
590-15898-4	DMW-1	Dissolved	Water	3005A	
590-15898-5	FW-3	Dissolved	Water	3005A	
590-15898-6	DMW-3	Dissolved	Water	3005A	
590-15898-7	FW-4	Dissolved	Water	3005A	
590-15898-8	FW-5R	Dissolved	Water	3005A	
590-15898-9	T-3	Dissolved	Water	3005A	
590-15898-10	HC-111	Dissolved	Water	3005A	
590-15898-11	FW-13	Dissolved	Water	3005A	
MB 580-368485/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-368485/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368485/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 368612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Dissolved	Water	6020B	368485
590-15898-2	RR-2	Dissolved	Water	6020B	368485
590-15898-3	G-18	Dissolved	Water	6020B	368485
590-15898-4	DMW-1	Dissolved	Water	6020B	368485
590-15898-5	FW-3	Dissolved	Water	6020B	368485
590-15898-6	DMW-3	Dissolved	Water	6020B	368485
590-15898-7	FW-4	Dissolved	Water	6020B	368485
590-15898-8	FW-5R	Dissolved	Water	6020B	368485
590-15898-9	T-3	Dissolved	Water	6020B	368485
590-15898-10	HC-111	Dissolved	Water	6020B	368485
590-15898-11	FW-13	Dissolved	Water	6020B	368485
MB 580-368485/24-A	Method Blank	Total Recoverable	Water	6020B	368485
LCS 580-368485/25-A	Lab Control Sample	Total Recoverable	Water	6020B	368485
LCSD 580-368485/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368485

Prep Batch: 368732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-12	FW-13 DUP	Dissolved	Water	3005A	
590-15898-12	FW-13 DUP	Total Recoverable	Water	3005A	
590-15898-13	DMW-2	Dissolved	Water	3005A	
590-15898-13	DMW-2	Total Recoverable	Water	3005A	
590-15898-14	G-8	Dissolved	Water	3005A	
590-15898-14	G-8	Total Recoverable	Water	3005A	
590-15898-15	FW-14	Dissolved	Water	3005A	
590-15898-15	FW-14	Total Recoverable	Water	3005A	
590-15898-16	RW-2	Dissolved	Water	3005A	
590-15898-16	RW-2	Total Recoverable	Water	3005A	
590-15898-17	B-17B	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 368732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-17	B-17B	Total Recoverable	Water	3005A	
590-15898-18	FW-15	Dissolved	Water	3005A	
590-15898-18	FW-15	Total Recoverable	Water	3005A	
590-15898-19	RR-1	Dissolved	Water	3005A	
590-15898-19	RR-1	Total Recoverable	Water	3005A	
590-15898-20	RW-8	Dissolved	Water	3005A	
590-15898-20	RW-8	Total Recoverable	Water	3005A	
590-15898-21	B-34	Dissolved	Water	3005A	
590-15898-21	B-34	Total Recoverable	Water	3005A	
MB 580-368732/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-368732/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368732/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
590-15898-12 MS	FW-13 DUP	Total Recoverable	Water	3005A	
590-15898-12 MSD	FW-13 DUP	Total Recoverable	Water	3005A	
590-15898-12 DU	FW-13 DUP	Total Recoverable	Water	3005A	

Analysis Batch: 368878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-12	FW-13 DUP	Dissolved	Water	6020B	368732
590-15898-12	FW-13 DUP	Total Recoverable	Water	6020B	368732
590-15898-13	DMW-2	Dissolved	Water	6020B	368732
590-15898-13	DMW-2	Total Recoverable	Water	6020B	368732
590-15898-14	G-8	Dissolved	Water	6020B	368732
590-15898-14	G-8	Total Recoverable	Water	6020B	368732
590-15898-15	FW-14	Dissolved	Water	6020B	368732
590-15898-15	FW-14	Total Recoverable	Water	6020B	368732
590-15898-16	RW-2	Dissolved	Water	6020B	368732
590-15898-16	RW-2	Total Recoverable	Water	6020B	368732
590-15898-17	B-17B	Dissolved	Water	6020B	368732
590-15898-17	B-17B	Total Recoverable	Water	6020B	368732
590-15898-18	FW-15	Dissolved	Water	6020B	368732
590-15898-18	FW-15	Total Recoverable	Water	6020B	368732
590-15898-19	RR-1	Dissolved	Water	6020B	368732
590-15898-19	RR-1	Total Recoverable	Water	6020B	368732
590-15898-20	RW-8	Dissolved	Water	6020B	368732
590-15898-20	RW-8	Total Recoverable	Water	6020B	368732
590-15898-21	B-34	Dissolved	Water	6020B	368732
590-15898-21	B-34	Total Recoverable	Water	6020B	368732
MB 580-368732/24-A	Method Blank	Total Recoverable	Water	6020B	368732
LCS 580-368732/25-A	Lab Control Sample	Total Recoverable	Water	6020B	368732
LCSD 580-368732/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368732
590-15898-12 MS	FW-13 DUP	Total Recoverable	Water	6020B	368732
590-15898-12 MSD	FW-13 DUP	Total Recoverable	Water	6020B	368732
590-15898-12 DU	FW-13 DUP	Total Recoverable	Water	6020B	368732

General Chemistry

Analysis Batch: 368707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-2	RR-2	Total/NA	Water	310.1	
590-15898-3	G-18	Total/NA	Water	310.1	

General Chemistry (Continued)

Analysis Batch: 368707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-4	DMW-1	Total/NA	Water	310.1	
590-15898-5	FW-3	Total/NA	Water	310.1	
590-15898-6	DMW-3	Total/NA	Water	310.1	
590-15898-7	FW-4	Total/NA	Water	310.1	
590-15898-8	FW-5R	Total/NA	Water	310.1	
590-15898-9	T-3	Total/NA	Water	310.1	
LCS 580-368707/2	Lab Control Sample	Total/NA	Water	310.1	

Analysis Batch: 368714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15898-1	RR-3	Total/NA	Water	310.1	
590-15898-10	HC-111	Total/NA	Water	310.1	
590-15898-11	FW-13	Total/NA	Water	310.1	
590-15898-12	FW-13 DUP	Total/NA	Water	310.1	
590-15898-13	DMW-2	Total/NA	Water	310.1	
590-15898-14	G-8	Total/NA	Water	310.1	
590-15898-15	FW-14	Total/NA	Water	310.1	
590-15898-16	RW-2	Total/NA	Water	310.1	
590-15898-17	B-17B	Total/NA	Water	310.1	
590-15898-18	FW-15	Total/NA	Water	310.1	
590-15898-19	RR-1	Total/NA	Water	310.1	
590-15898-20	RW-8	Total/NA	Water	310.1	
590-15898-21	B-34	Total/NA	Water	310.1	
LCS 580-368714/2	Lab Control Sample	Total/NA	Water	310.1	

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RR-3

Lab Sample ID: 590-15898-1
Date Collected: 09/14/21 08:45
Matrix: Water
Date Received: 09/15/21 16:35

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	33159	09/17/21 18:28	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 18:28	JSP	TAL SPK
Total/NA	Prep	3510C			269.9 mL	2 mL	368959	09/27/21 17:10	ADB	FGS SEA
Total/NA	Analysis	8270E SIM		1			369009	09/28/21 12:59	E1L	FGS SEA
Total/NA	Prep	3510C			249.1 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 13:50	NMI	TAL SPK
Total/NA	Analysis	300.0		1000			33135	09/16/21 07:54	NMI	TAL SPK
Total/NA	Analysis	300.0		1000			33136	09/16/21 07:54	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:28	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:40	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: RR-2

Lab Sample ID: 590-15898-2
Date Collected: 09/14/21 09:02
Matrix: Water
Date Received: 09/15/21 16:35

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	33159	09/17/21 18:49	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 18:49	JSP	TAL SPK
Total/NA	Prep	3510C			242.1 mL	2 mL	368959	09/27/21 17:10	ADB	FGS SEA
Total/NA	Analysis	8270E SIM		1			369009	09/28/21 13:24	E1L	FGS SEA
Total/NA	Prep	3510C			222.6 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 14:11	NMI	TAL SPK
Total/NA	Analysis	300.0		500			33135	09/16/21 08:07	NMI	TAL SPK
Total/NA	Analysis	300.0		500			33136	09/16/21 08:07	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:32	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 20:43	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: G-18

Lab Sample ID: 590-15898-3
Date Collected: 09/14/21 09:15
Matrix: Water
Date Received: 09/15/21 16:35

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	33159	09/17/21 19:10	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 19:10	JSP	TAL SPK
Total/NA	Prep	3510C			254.5 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 14:32	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 08:20	NMI	TAL SPK

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: G-18

Lab Sample ID: 590-15898-3
Date Collected: 09/14/21 09:15
Matrix: Water
Date Received: 09/15/21 16:35

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		1			33136	09/16/21 08:20	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:35	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:32	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: DMW-1

Lab Sample ID: 590-15898-4
Date Collected: 09/14/21 09:55
Matrix: Water
Date Received: 09/15/21 16:35

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	33159	09/17/21 19:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 19:31	JSP	TAL SPK
Total/NA	Prep	3510C			237.5 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 14:53	NMI	TAL SPK
Total/NA	Analysis	300.0		50			33135	09/16/21 08:33	NMI	TAL SPK
Total/NA	Analysis	300.0		50			33136	09/16/21 08:33	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 17:21	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:02	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: FW-3

Lab Sample ID: 590-15898-5
Date Collected: 09/14/21 10:06
Matrix: Water
Date Received: 09/15/21 16:35

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	33159	09/17/21 19:52	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 19:52	JSP	TAL SPK
Total/NA	Prep	3510C			230 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 15:15	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33135	09/16/21 08:45	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33136	09/16/21 08:45	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:54	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:06	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: DMW-3
Date Collected: 09/14/21 10:30
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-6
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		1	43 mL	43 mL	33159	09/17/21 20:13	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 20:13	JSP	TAL SPK
Total/NA	Prep	3510C			248.7 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 15:36	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 08:58	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 08:58	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 18:58	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:09	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: FW-4
Date Collected: 09/14/21 10:45
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-7
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		1	43 mL	43 mL	33159	09/17/21 20:55	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 20:55	JSP	TAL SPK
Total/NA	Prep	3510C			250.7 mL	2 mL	368959	09/27/21 17:10	ADB	FGS SEA
Total/NA	Analysis	8270E SIM		1			369009	09/28/21 13:49	E1L	FGS SEA
Total/NA	Prep	3510C			271.3 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 15:57	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33147	09/16/21 17:40	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33148	09/16/21 17:40	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 19:02	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:13	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: FW-5R
Date Collected: 09/14/21 11:38
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-8
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	33159	09/17/21 21:16	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 21:16	JSP	TAL SPK
Total/NA	Prep	3510C			230.1 mL	2 mL	368959	09/27/21 17:10	ADB	FGS SEA
Total/NA	Analysis	8270E SIM		1			369009	09/28/21 14:14	E1L	FGS SEA
Total/NA	Prep	3510C	DL		230.1 mL	2 mL	368959	09/27/21 17:10	ADB	FGS SEA
Total/NA	Analysis	8270E SIM	DL	100			369009	09/28/21 15:03	E1L	FGS SEA
Total/NA	Prep	3510C			218.2 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 16:38	NMI	TAL SPK

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-5R
Date Collected: 09/14/21 11:38
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-8
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	300.0		1			33135	09/16/21 09:11	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 09:11	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 19:05	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:17	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: T-3
Date Collected: 09/14/21 11:55
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-9
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	33159	09/17/21 21:36	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 21:36	JSP	TAL SPK
Total/NA	Prep	3510C			253.3 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 16:58	NMI	TAL SPK
Total/NA	Analysis	300.0		1000			33135	09/16/21 09:23	NMI	TAL SPK
Total/NA	Analysis	300.0		1000			33136	09/16/21 09:23	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 19:09	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:21	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368707	09/23/21 16:27	MLT	FGS SEA

Client Sample ID: HC-111
Date Collected: 09/14/21 11:55
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-10
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		1	43 mL	43 mL	33159	09/17/21 21:58	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 21:58	JSP	TAL SPK
Total/NA	Prep	3510C			269.8 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 17:19	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 11:44	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 11:44	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 19:13	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:24	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-13

Lab Sample ID: 590-15898-11

Date Collected: 09/14/21 12:49
Date Received: 09/15/21 16:35

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	33159	09/17/21 22:18	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33158	09/17/21 22:18	JSP	TAL SPK
Total/NA	Prep	3510C			221.5 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 17:40	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 09:42	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 09:42	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368485	09/21/21 18:15	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368612	09/22/21 19:17	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368167	09/17/21 18:17	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368372	09/20/21 21:28	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: FW-13 DUP

Lab Sample ID: 590-15898-12

Date Collected: 09/14/21 12:49
Date Received: 09/15/21 16:35

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	33177	09/20/21 13:10	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 13:10	JSP	TAL SPK
Total/NA	Prep	3510C			217.8 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 18:00	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 09:54	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 09:54	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 14:19	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 14:23	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: DMW-2

Lab Sample ID: 590-15898-13

Date Collected: 09/14/21 12:55
Date Received: 09/15/21 16:35

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	33177	09/20/21 13:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 13:31	JSP	TAL SPK
Total/NA	Prep	3510C			233.9 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 18:21	NMI	TAL SPK
Total/NA	Analysis	300.0		50			33135	09/16/21 11:56	NMI	TAL SPK
Total/NA	Analysis	300.0		50			33136	09/16/21 11:56	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:52	FCW	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: DMW-2
Date Collected: 09/14/21 12:55
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-13
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	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:04	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: G-8
Date Collected: 09/14/21 13:15
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-14
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	33177	09/20/21 13:52	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 13:52	JSP	TAL SPK
Total/NA	Prep	3510C			245.3 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 18:42	NMI	TAL SPK
Total/NA	Analysis	300.0		4			33135	09/16/21 10:58	NMI	TAL SPK
Total/NA	Analysis	300.0		4			33136	09/16/21 10:58	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:56	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:07	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: FW-14
Date Collected: 09/14/21 13:45
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-15
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	33177	09/20/21 14:13	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 14:13	JSP	TAL SPK
Total/NA	Prep	3510C			251.1 mL	2 mL	368959	09/27/21 17:10	ADB	FGS SEA
Total/NA	Analysis	8270E SIM		1			369009	09/28/21 14:39	E1L	FGS SEA
Total/NA	Prep	3510C			278.7 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 19:02	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33135	09/16/21 12:09	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33136	09/16/21 12:09	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:00	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:11	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: RW-2

Lab Sample ID: 590-15898-16
Date Collected: 09/14/21 14:30
Matrix: Water
Date Received: 09/15/21 16:35

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	33177	09/20/21 14:34	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 14:34	JSP	TAL SPK
Total/NA	Prep	3510C			248.5 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 19:23	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 13:38	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 13:38	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:03	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:15	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: B-17B

Lab Sample ID: 590-15898-17
Date Collected: 09/14/21 14:23
Matrix: Water
Date Received: 09/15/21 16:35

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	33177	09/20/21 14:55	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 14:55	JSP	TAL SPK
Total/NA	Prep	3510C			225.2 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 19:44	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 12:47	NMI	TAL SPK
Total/NA	Analysis	300.0		10			33147	09/16/21 17:53	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:07	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:19	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: FW-15

Lab Sample ID: 590-15898-18
Date Collected: 09/14/21 14:35
Matrix: Water
Date Received: 09/15/21 16:35

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	33177	09/20/21 15:16	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 15:16	JSP	TAL SPK
Total/NA	Prep	3510C			274 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 20:25	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33135	09/16/21 11:23	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33136	09/16/21 11:23	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:11	FCW	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: FW-15
Date Collected: 09/14/21 14:35
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-18
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	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:22	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: RR-1
Date Collected: 09/14/21 15:35
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-19
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	33177	09/20/21 15:37	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 15:37	JSP	TAL SPK
Total/NA	Prep	3510C			240.9 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 20:46	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33135	09/16/21 13:00	NMI	TAL SPK
Total/NA	Analysis	300.0		100			33136	09/16/21 13:00	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:14	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:26	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: RW-8
Date Collected: 09/14/21 15:35
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-20
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	33177	09/20/21 16:18	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 16:18	JSP	TAL SPK
Total/NA	Prep	3510C			248.5 mL	2 mL	33175	09/20/21 10:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/20/21 21:07	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 13:13	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 13:13	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:18	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:30	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: B-34
Date Collected: 09/14/21 15:43
Date Received: 09/15/21 16:35

Lab Sample ID: 590-15898-21
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	33177	09/20/21 16:39	JSP	TAL SPK

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Client Sample ID: B-34

Lab Sample ID: 590-15898-21

Date Collected: 09/14/21 15:43
Date Received: 09/15/21 16:35

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	33176	09/20/21 16:39	JSP	TAL SPK
Total/NA	Prep	3510C			233 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 05:24	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33135	09/16/21 13:25	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33136	09/16/21 13:25	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 16:22	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368732	09/23/21 20:56	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368878	09/24/21 15:33	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: Trip Blank

Lab Sample ID: 590-15898-22

Date Collected: 09/14/21 08:00
Date Received: 09/15/21 16:35

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	33177	09/20/21 17:01	JSP	TAL SPK

Laboratory References:

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

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

Qualifiers

GC/MS 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.

GC/MS 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.
S1-	Surrogate recovery exceeds control limits, low 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
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: AECOM
Project/Site: Tacoma D St Terminal 66/6053745

Job ID: 590-15898-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
NWTPH-Dx	3510C	Water	Residual Range Organics (RRO) (C25-C36)

Laboratory: Eurofins FGS, 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	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	Dept. of Energy	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2954	06-30-21 *
Florida	NELAP	E87575	06-30-22
Kentucky (WW)	State	KY98042	12-31-21
Louisiana	NELAP	03073	06-30-22
Maine	State	2020012	05-02-22
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-22
New York	NELAP	11662	04-01-22
Oregon	NELAP	4167	07-07-22
US Fish & Wildlife	US Federal Programs	058448	05-31-22
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C788	07-13-22
Wisconsin	State	399133460	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: RD, BD NG	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6828-2012.2
Client Contact: Clifford Pearson	Phone: (760) 931-5863	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin:	Page: Page 2 of 4
Company: AECOM	PWSID:			Job #:
Address: 111 SW Columbia Street, Suite 1500	Due Date Requested:			
City: Portland	TAT Requested (days):			
State, Zip: OR, 97201	Compliance Project: Δ Yes Δ No			
Phone: 913-344-1000(Tel) 913-344-1011(Fax)	PO #: 60626737			
Email: clifford.pearson@aecom.com	WO #: 60626737			
Project Name: Tacoma D St Terminal-Phillips 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - DRO and RRO	8260D, NWTPH_Gx_MS	300_ORGFM_28D, 300_ORGFMS	6020B - Total Lead	6020B - (MOD) Diss Pb & Mn	310.1 - Alkalinity only	8270E_SIM - (MOD) Naphthalenes	8260C - (MOD) BTEX only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	D	D	N	N	A		
RR-3	9/14/21	08:45	G	Water			X	X	X	X	X	X	X	X		
RR-2		09:02		Water			X	X	X	X	X	X	X	X		
G-18		09:15		Water			X	X	X	X	X	X	X	X		
DMW-1		09:55		Water			X	X	X	X	X	X	X	X		
FW-3		10:06		Water			X	X	X	X	X	X	X	X		
DMW-3		10:30		Water			X	X	X	X	X	X	X	X		
FW-4		10:45		Water			X	X	X	X	X	X	X	X		
FW-5R		11:30		Water			X	X	X	X	X	X	X	X		
T-3		11:55		Water			X	X	X	X	X	X	X	X		
HC-111		11:55		Water			X	X	X	X	X	X	X	X		
FW-13		12:49		Water			X	X	X	X	X	X	X	X		

590-15898 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained lor
☐ Return To Client ☐ Disposal By Lab ☐ Archive Fo ...s

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	Date/Time	Company
Rebecca Digiustino	9/14/21 17:00	AECOM	Fedex	9/14/21 17:00	Fedex
			Madison Vaughan	9/15/21 4:35pm	ETA SPO

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1548571 1548569	Cooler Temperature(s) °C and Other Remarks: 2.5°C 2.0°C TR005

Ver: 06/08/2021

9/28/2021

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: RD, BD, NG	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6828-2012.3
Client Contact: Clifford Pearson	Phone: (360) 971-5357	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: AECOM	PWSID:			Job #:
Address: 111 SW Columbia Street, Suite 1500	Due Date Requested:			
City: Portland	TAT Requested (days):			
State, Zip: OR, 97201	Compliance Project: Δ Yes Δ No			
Phone: 913-344-1000(Tel) 913-344-1011(Fax)	PO #: 60626737			
Email: clifford.pearson@aecom.com	WO #: 60626737			
Project Name: Tacoma D St Terminal-Phillips 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - DRO and RRO	8260D, NWTPH_Gx_MS	300_ORGFM_28D, 300_ORGFMS	6020B - Total Lead	6020B - (MOD) Diss Pb & Mn	310.1 - Alkalinity only	8270E_SIM - (MOD) Naphthalenes	8260C - (MOD) BTEX only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	D	D	N	N	A		
FW-13 DUP	9/14/21	12:49	G	Water	Y	N	X	X	X	X	X	X	X	X		
DMW-2		12:55		Water	Y	N	X	X	X	X	X	X	X	X		
G-8		13:15		Water	Y	N	X	X	X	X	X	X	X	X		
FW-14		13:45		Water	Y	N	X	X	X	X	X	X	X	X		
RW-2		14:30		Water	Y	N	X	X	X	X	X	X	X	X		
B-17B		14:23		Water	Y	N	X	X	X	X	X	X	X	X		
FW-15		14:35		Water	Y	N	X	X	X	X	X	X	X	X		
RR-1		15:35		Water	Y	N	X	X	X	X	X	X	X	X		
RW-8		15:35		Water	Y	N	X	X	X	X	X	X	X	X		
B-34		15:43		Water	Y	N	X	X	X	X	X	X	X	X		
Trip blank	—	—		Water	Y	N	X	X	X	X	X	X	X	X		BTEX only. Sorry

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 1 month)
☐ 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	Date/Time	Company
Rebecca Digiustino	9/14/21 17:00	AECOM	Fedex	9/14/21 19:00	Fedex
			Madison Vaughan	9/15/21	ETA SPO

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

9/28/2021

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6300.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 3
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15898-1
Address: 5755 8th Street East, ,	Due Date Requested: 9/28/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:								
RR-3 (590-15898-1)	9/14/21	08:45 Pacific		Water			X	X	X	3	
RR-2 (590-15898-2)	9/14/21	09:02 Pacific		Water			X	X	X	3	
G-18 (590-15898-3)	9/14/21	09:15 Pacific		Water			X	X	X	3	
DMW-1 (590-15898-4)	9/14/21	09:55 Pacific		Water			X	X	X	3	
FW-3 (590-15898-5)	9/14/21	10:06 Pacific		Water			X	X	X	3	
DMW-3 (590-15898-6)	9/14/21	10:30 Pacific		Water			X	X	X	3	
FW-4 (590-15898-7)	9/14/21	10:45 Pacific		Water			X	X	X	3	
FW- SR (590-15898-8)	9/14/21	11:38 Pacific		Water			X	X	X	3	
T-3 (590-15898-9)	9/14/21	11:55 Pacific		Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Madison Vaughan	Date/Time: 9/16/21 2:43	Company: ETA SPO	Received by: Tom Blank	Date/Time: 9/17/21 1005	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: IR9 2.9/2.9 1.4/1.4

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6300.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 2 of 3
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15898-1
Address: 5755 8th Street East,	Due Date Requested: 9/28/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:								
HC-111 (590-15898-10)	9/14/21	11:55 Pacific		Water			X	X	X	3	
FW-13 (590-15898-11)	9/14/21	12:49 Pacific		Water			X	X	X	3	
FW-13 DUP (590-15898-12)	9/14/21	12:49 Pacific		Water			X	X	X	3	
DMW-2 (590-15898-13)	9/14/21	12:55 Pacific		Water			X	X	X	3	
G-8 (590-15898-14)	9/14/21	13:15 Pacific		Water			X	X	X	3	
FW-14 (590-15898-15)	9/14/21	13:45 Pacific		Water			X	X	X	3	
RW-2 (590-15898-16)	9/14/21	14:30 Pacific		Water			X	X	X	3	
B-17B (590-15898-17)	9/14/21	14:23 Pacific		Water			X	X	X	3	
FW-15 (590-15898-18)	9/14/21	14:35 Pacific		Water			X	X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Madison Vaughan	9/16/21 2:43	ETA SPO	Tom Blank	9/17/21 1005	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021 9/28/2021

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6300.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 3 of 3
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15898-1
Address: 5755 8th Street East, .	Due Date Requested: 9/28/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:								
RR-1 (590-15898-19)	9/14/21	15:35 Pacific		Water			X	X	X	3	
RW-8 (590-15898-20)	9/14/21	15:35 Pacific		Water			X	X	X	3	
B-34 (590-15898-21)	9/14/21	15:43 Pacific		Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Madison Vaughan	Date/Time: 9/16/21 2:43	Company: ETA SPO	Received by: Tom B	Date/Time: 9/17/21 1005	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6309.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15898-1
Address: 5755 8th Street East, ,	Due Date Requested: 9/27/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal 66/6053745	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E_SIM/3510C_LVI (MOD) PAHs, standard list	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RR-3 (590-15898-1)	9/14/21	08:45 Pacific		Water			X	1	sent as extract
RR-2 (590-15898-2)	9/14/21	09:02 Pacific		Water			X	1	sent as extract
FW-4 (590-15898-7)	9/14/21	10:45 Pacific		Water			X	1	sent as extract
FW- SR (590-15898-8)	9/14/21	11:38 Pacific		Water			X	1	sent as extract
FW-14 (590-15898-15)	9/14/21	13:45 Pacific		Water			X	1	sent as extract

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: M. Vaughan	Date/Time: 9/21/21 14:40	Company: EFKSPO	Received by: Tom Blank	Date/Time: 9 22 21 ~~0910~~	Company: 1040 TB 9/22/21
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR9 0.7 / 0.7

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-15898-1

Login Number: 15898
List Number: 1
Creator: Vaughan, Madison 1

List Source: Eurofins TestAmerica, Spokane

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.	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	
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.	False	
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.	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 <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: 590-15898-1

Login Number: 15898
List Number: 2
Creator: Blankinship, Tom X

List Source: Eurofins FGS, Seattle
List Creation: 09/17/21 03:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	2.9°, 1.4°C
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?	False	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.	False	Preservation labels on samples match COC
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").	N/A	
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: 590-15898-1

Login Number: 15898
List Number: 3
Creator: Greene, Ashton R

List Source: Eurofins FGS, Seattle
List Creation: 09/22/21 03:59 PM

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.	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	IR9 0.7 / 0.7
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.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15904-1
Client Project/Site: Tacoma D St Terminal/60626737

For:
AECOM
111 SW Columbia Street, Suite 1500
Portland, Oregon 97201

Attn: Mr. Tyler Hemry

Authorized for release by:
9/28/2021 11:54:19 AM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 590-15904-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 9/16/2021 10:50 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 4.2º C.

GC/MS VOA
Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 590-33177.

Method NWTPH-Gx: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with analytical batch 590-33176.

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

GC Semi VOA
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 sample: B-19 (590-15904-2).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following sample: RW-5R (590-15904-1).

Method 300.0: The following samples was received with less than 5 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-19 (590-15904-2).

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/60626737

Job ID: 590-15904-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-15904-1	RW-5R	Water	09/14/21 17:20	09/16/21 10:50
590-15904-2	B-19	Water	09/14/21 17:20	09/16/21 10:50
590-15904-3	Trip Blank	Water	09/14/21 17:20	09/16/21 10:50

Method Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
NWTPH = Northwest Total Petroleum Hydrocarbon
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Client Sample ID: RW-5R — Lab Sample ID: 590-15904-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.0		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	25		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	0.34	J	2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.49	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	0.62	J	1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	0.83	J	3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	3900		150	70	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
Sulfate	0.68		0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.44		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: B-19 — Lab Sample ID: 590-15904-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		0.40	0.093	ug/L	1		8260D	Total/NA
Ethylbenzene	36		1.0	0.20	ug/L	1		8260D	Total/NA
m,p-Xylene	3.3		2.0	0.28	ug/L	1		8260D	Total/NA
o-Xylene	0.43	J	1.0	0.16	ug/L	1		8260D	Total/NA
Toluene	1.5		1.0	0.31	ug/L	1		8260D	Total/NA
Xylenes, Total	3.8		3.0	0.44	ug/L	1		8260D	Total/NA
Gasoline	1300		150	70	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.96		0.25	0.11	mg/L	1		NWTPH-Dx	Total/NA
Sulfate	41		0.50	0.13	mg/L	1		300.0	Total/NA
Manganese	0.090		0.010	0.0023	mg/L	5		6020B	Dissolved
Alkalinity	350		7.0	7.0	mg/L	1		310.1	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 590-15904-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Client Sample ID: RW-5R

Date Collected: 09/14/21 17:20
Date Received: 09/16/21 10:50

Lab Sample ID: 590-15904-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.0**		0.40	0.093	ug/L			09/20/21 17:21	1
Ethylbenzene	**25**		1.0	0.20	ug/L			09/20/21 17:21	1
m,p-Xylene	**0.34**	**J**	2.0	0.28	ug/L			09/20/21 17:21	1
o-Xylene	**0.49**	**J**	1.0	0.16	ug/L			09/20/21 17:21	1
Toluene	**0.62**	**J**	1.0	0.31	ug/L			09/20/21 17:21	1
Xylenes, Total	**0.83**	**J**	3.0	0.44	ug/L			09/20/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*09/20/21 17:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/20/21 17:21*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/21 17:21*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/20/21 17:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**3900**		150	70	ug/L			09/20/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*		*09/20/21 17:21*	*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)	**2.4**		0.25	0.12	mg/L		09/20/21 14:41	09/21/21 02:18	1
Residual Range Organics (RRO) (C25-C36)	ND		0.42	0.13	mg/L		09/20/21 14:41	09/21/21 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*09/20/21 14:41*	*09/21/21 02:18*	*1*
n-Triacontane-d62	*91*		*50 - 150*	*09/20/21 14:41*	*09/21/21 02:18*	*1*

Method: 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			09/16/21 16:36	1
Sulfate	**0.68**		0.50	0.13	mg/L			09/16/21 16:36	1

Method: 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		09/24/21 20:03	09/28/21 00:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/24/21 20:03	09/28/21 01:10	5
Manganese	**0.44**		0.010	0.0023	mg/L		09/24/21 20:03	09/28/21 01:10	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**520**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Client Sample ID: B-19

Date Collected: 09/14/21 17:20
Date Received: 09/16/21 10:50

Lab Sample ID: 590-15904-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.3**		0.40	0.093	ug/L			09/20/21 17:42	1
Ethylbenzene	**36**		1.0	0.20	ug/L			09/20/21 17:42	1
m,p-Xylene	**3.3**		2.0	0.28	ug/L			09/20/21 17:42	1
o-Xylene	**0.43**	**J**	1.0	0.16	ug/L			09/20/21 17:42	1
Toluene	**1.5**		1.0	0.31	ug/L			09/20/21 17:42	1
Xylenes, Total	**3.8**		3.0	0.44	ug/L			09/20/21 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*09/20/21 17:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/20/21 17:42*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/21 17:42*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/20/21 17:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1300**		150	70	ug/L			09/20/21 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*68.7 - 141*		*09/20/21 17:42*	*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)	**0.96**		0.25	0.11	mg/L		09/20/21 14:41	09/21/21 02:38	1
Residual Range Organics (RRO) (C25-C36)	ND		0.41	0.12	mg/L		09/20/21 14:41	09/21/21 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*09/20/21 14:41*	*09/21/21 02:38*	*1*
n-Triacontane-d62	*88*		*50 - 150*	*09/20/21 14:41*	*09/21/21 02:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	0.20	0.057	mg/L			09/16/21 17:28	1
Sulfate	**41**		0.50	0.13	mg/L			09/16/21 17:28	1

Method: 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		09/24/21 20:03	09/28/21 00:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0020	0.00020	mg/L		09/24/21 20:03	09/28/21 01:13	5
Manganese	**0.090**		0.010	0.0023	mg/L		09/24/21 20:03	09/28/21 01:13	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		7.0	7.0	mg/L			09/23/21 17:01	1

Client Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Client Sample ID: Trip Blank

Date Collected: 09/14/21 17:20
Date Received: 09/16/21 10:50

Lab Sample ID: 590-15904-3

Matrix: Water

Method: 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			09/20/21 18:03	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 18:03	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 18:03	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 18:03	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 18:03	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*09/20/21 18:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/20/21 18:03*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/20/21 18:03*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/20/21 18:03*	*1*

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

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

Lab Sample ID: MB 590-33177/7
Matrix: Water
Analysis Batch: 33177

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			09/20/21 12:28	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/21 12:28	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/21 12:28	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/21 12:28	1
Toluene	ND		1.0	0.31	ug/L			09/20/21 12:28	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/21 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*09/20/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/20/21 12:28*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/20/21 12:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/20/21 12:28*	*1*

Lab Sample ID: LCS 590-33177/5
Matrix: Water
Analysis Batch: 33177

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	11.8		ug/L		118	80 - 126
Ethylbenzene	10.0	10.8		ug/L		108	80 - 128
m,p-Xylene	10.0	10.5		ug/L		105	80 - 127
o-Xylene	10.0	11.0		ug/L		110	80 - 126
Toluene	10.0	10.5		ug/L		105	80 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: LCSD 590-33177/1004
Matrix: Water
Analysis Batch: 33177

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	11.2		ug/L		112	80 - 126	5	18
Ethylbenzene	10.0	11.0		ug/L		110	80 - 128	2	18
m,p-Xylene	10.0	10.7		ug/L		107	80 - 127	1	18
o-Xylene	10.0	10.8		ug/L		108	80 - 126	2	17
Toluene	10.0	10.4		ug/L		104	80 - 129	1	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: MB 590-33176/7
Matrix: Water
Analysis Batch: 33176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70	ug/L			09/20/21 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*09/20/21 12:28*	*1*

Lab Sample ID: LCS 590-33176/1006
Matrix: Water
Analysis Batch: 33176

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1000	1060		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*

Lab Sample ID: LCSD 590-33176/1017
Matrix: Water
Analysis Batch: 33176

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	1090		ug/L		109	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*

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

Lab Sample ID: MB 590-33186/1-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33186

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		09/20/21 14:41	09/20/21 21:27	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		09/20/21 14:41	09/20/21 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/20/21 14:41*	*09/20/21 21:27*	*1*
n-Triacontane-d62	*85*		*50 - 150*	*09/20/21 14:41*	*09/20/21 21:27*	*1*

Lab Sample ID: LCS 590-33186/2-A
Matrix: Water
Analysis Batch: 33182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.16		mg/L		72	50 - 150

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

Lab Sample ID: LCS 590-33186/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33182 — **Prep Batch: 33186**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Residual Range Organics (RRO) (C25-C36)			1.60	1.40		mg/L		87	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*
n-Triacontane-d62	*90*		*50 - 150*

Lab Sample ID: LCSD 590-33186/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33182 — **Prep Batch: 33186**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)			1.60	1.21		mg/L		76	50 - 150	4	25
Residual Range Organics (RRO) (C25-C36)			1.60	1.47		mg/L		92	50 - 150	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*
n-Triacontane-d62	*93*		*50 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-33147/1001 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.13	mg/L			09/16/21 15:56	1

Lab Sample ID: LCS 590-33147/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33147

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			12.5	12.5		mg/L		100	90 - 110		

Lab Sample ID: 590-15904-1 MS — **Client Sample ID: RW-5R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	0.68		11.4	12.2		mg/L		101	80 - 120		

Lab Sample ID: 590-15904-1 MSD — **Client Sample ID: RW-5R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 33147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.68		11.4	12.2		mg/L		101	80 - 120	0	10

QC Sample Results

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 590-15904-1 DU
Matrix: Water
Analysis Batch: 33147

Client Sample ID: RW-5R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfate	0.68			0.683		mg/L				0.3	15.7

Lab Sample ID: MB 590-33148/1001
Matrix: Water
Analysis Batch: 33148

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			09/16/21 15:56	1

Lab Sample ID: LCS 590-33148/1002
Matrix: Water
Analysis Batch: 33148

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	5.01		mg/L		100	90 - 110		

Lab Sample ID: 590-15904-1 MS
Matrix: Water
Analysis Batch: 33148

Client Sample ID: RW-5R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND		4.55	4.12		mg/L		91	80 - 120		

Lab Sample ID: 590-15904-1 MSD
Matrix: Water
Analysis Batch: 33148

Client Sample ID: RW-5R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		4.55	4.13		mg/L		91	80 - 120	0	12.1

Lab Sample ID: 590-15904-1 DU
Matrix: Water
Analysis Batch: 33148

Client Sample ID: RW-5R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	ND			ND		mg/L				NC	13.1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-368844/24-A
Matrix: Water
Analysis Batch: 368980

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00040	0.000040	mg/L		09/24/21 20:03	09/27/21 23:10	1
Manganese	ND		0.0020	0.00046	mg/L		09/24/21 20:03	09/27/21 23:10	1

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

Lab Sample ID: LCS 580-368844/25-A
Matrix: Water
Analysis Batch: 368980

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.950		mg/L		95	80 - 120
Manganese	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-368844/26-A
Matrix: Water
Analysis Batch: 368980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.950		mg/L		95	80 - 120	0	20
Manganese	1.00	0.996		mg/L		100	80 - 120	0	20

Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-368714/2
Matrix: Water
Analysis Batch: 368714

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	97.3		mg/L		97	85 - 115

QC Association Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

GC/MS VOA

Analysis Batch: 33176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	NWTPH-Gx	
590-15904-2	B-19	Total/NA	Water	NWTPH-Gx	
MB 590-33176/7	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-33176/1006	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-33176/1017	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 33177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	8260D	
590-15904-2	B-19	Total/NA	Water	8260D	
590-15904-3	Trip Blank	Total/NA	Water	8260D	
MB 590-33177/7	Method Blank	Total/NA	Water	8260D	
LCS 590-33177/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 590-33177/1004	Lab Control Sample Dup	Total/NA	Water	8260D	

GC Semi VOA

Analysis Batch: 33182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	NWTPH-Dx	33186
590-15904-2	B-19	Total/NA	Water	NWTPH-Dx	33186
MB 590-33186/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	33186
LCS 590-33186/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	33186
LCSD 590-33186/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	33186

Prep Batch: 33186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	3510C	
590-15904-2	B-19	Total/NA	Water	3510C	
MB 590-33186/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-33186/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-33186/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

HPLC/IC

Analysis Batch: 33147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	300.0	
590-15904-2	B-19	Total/NA	Water	300.0	
MB 590-33147/1001	Method Blank	Total/NA	Water	300.0	
LCS 590-33147/1002	Lab Control Sample	Total/NA	Water	300.0	
590-15904-1 MS	RW-5R	Total/NA	Water	300.0	
590-15904-1 MSD	RW-5R	Total/NA	Water	300.0	
590-15904-1 DU	RW-5R	Total/NA	Water	300.0	

Analysis Batch: 33148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	300.0	
590-15904-2	B-19	Total/NA	Water	300.0	
MB 590-33148/1001	Method Blank	Total/NA	Water	300.0	
LCS 590-33148/1002	Lab Control Sample	Total/NA	Water	300.0	
590-15904-1 MS	RW-5R	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 33148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1 MSD	RW-5R	Total/NA	Water	300.0	
590-15904-1 DU	RW-5R	Total/NA	Water	300.0	

Metals

Prep Batch: 368844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Dissolved	Water	3005A	
590-15904-1	RW-5R	Total Recoverable	Water	3005A	
590-15904-2	B-19	Dissolved	Water	3005A	
590-15904-2	B-19	Total Recoverable	Water	3005A	
MB 580-368844/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-368844/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368844/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 368980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Dissolved	Water	6020B	368844
590-15904-1	RW-5R	Total Recoverable	Water	6020B	368844
590-15904-2	B-19	Dissolved	Water	6020B	368844
590-15904-2	B-19	Total Recoverable	Water	6020B	368844
MB 580-368844/24-A	Method Blank	Total Recoverable	Water	6020B	368844
LCS 580-368844/25-A	Lab Control Sample	Total Recoverable	Water	6020B	368844
LCSD 580-368844/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368844

General Chemistry

Analysis Batch: 368714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-15904-1	RW-5R	Total/NA	Water	310.1	
590-15904-2	B-19	Total/NA	Water	310.1	
LCS 580-368714/2	Lab Control Sample	Total/NA	Water	310.1	

Lab Chronicle

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Client Sample ID: RW-5R
Date Collected: 09/14/21 17:20
Date Received: 09/16/21 10:50

Lab Sample ID: 590-15904-1
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	33177	09/20/21 17:21	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 17:21	JSP	TAL SPK
Total/NA	Prep	3510C			237.5 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 02:18	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33147	09/16/21 16:36	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33148	09/16/21 16:36	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368844	09/24/21 20:03	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368980	09/28/21 01:10	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368980	09/28/21 00:17	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: B-19
Date Collected: 09/14/21 17:20
Date Received: 09/16/21 10:50

Lab Sample ID: 590-15904-2
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	33177	09/20/21 17:42	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33176	09/20/21 17:42	JSP	TAL SPK
Total/NA	Prep	3510C			244 mL	2 mL	33186	09/20/21 14:41	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33182	09/21/21 02:38	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33147	09/16/21 17:28	NMI	TAL SPK
Total/NA	Analysis	300.0		1			33148	09/16/21 17:28	NMI	TAL SPK
Dissolved	Prep	3005A			50 mL	50 mL	368844	09/24/21 20:03	TMH	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	368980	09/28/21 01:13	FCW	FGS SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	368980	09/28/21 00:21	FCW	FGS SEA
Total/NA	Analysis	310.1		1	30 mL	30 mL	368714	09/23/21 17:01	MLT	FGS SEA

Client Sample ID: Trip Blank
Date Collected: 09/14/21 17:20
Date Received: 09/16/21 10:50

Lab Sample ID: 590-15904-3
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	33177	09/20/21 18:03	JSP	TAL SPK

Laboratory References:

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

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

Definitions/Glossary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Qualifiers

GC/MS 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

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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: AECOM
Project/Site: Tacoma D St Terminal/60626737

Job ID: 590-15904-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
NWTPH-Dx	3510C	Water	Residual Range Organics (RRO) (C25-C36)

Laboratory: Eurofins FGS, 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	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	Dept. of Energy	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2954	06-30-21 *
Florida	NELAP	E87575	06-30-22
Kentucky (WW)	State	KY98042	12-31-21
Louisiana	NELAP	03073	06-30-22
Maine	State	2020012	05-02-22
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-22
New York	NELAP	11662	04-01-22
Oregon	NELAP	4167	07-07-22
US Fish & Wildlife	US Federal Programs	058448	05-31-22
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C788	07-13-22
Wisconsin	State	399133460	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

9/28/2021

Client: AECOM	Client Contact: Renee Knecht	Date: 9/14/21	Chain of Custody Number: 40531
Address: 1111 3rd Ave Ste 1600	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City: Seattle; State: WA; Zip Code: 98101	Sampler: N. Guyn / R. Digiacomo	Lab Contact: B. Durby	
Project Name and Location (State): Tacoma D St Tacoma WA	Billing Contact		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): NWTPH GX	NWTPH DX	BTEX	Method 300	Method 310	Method 6020	6020 Field Filtered						Special Instructions/ Conditions of Receipt
RW-5R	9/14/21	1720		✓				✓		✓	✓				✓	✓	✓	✓	✓	✓	✓						
B-19	9/14/21	1720		✓				✓		✓	✓				✓	✓	✓	✓	✓	✓	✓						
Trip blank	9/14/21	1720		✓													✓										

590-15904 Chain of Custody

Cooler: ☑ Yes ☐ No Cooler Temp: 4.2°C

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By Sign/Print: Nathan Guyn	Date: 9/15/21	Time: 0930	1. Received By Sign/Print: Randee Amington	Date: 9/16/21	Time: 1050		
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time		
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

4.2°C TR00L

TAL-8274-580 (0210)

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-6300.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): State Program - Washington		Job #: 590-15904-1
Address: 5755 8th Street East, .	Due Date Requested: 9/29/2021			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 425-420-9210(Fax)	PO #:			
Email:	WO #:			
Project Name: Tacoma D St Terminal/60626737	Project #: 59000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:								
RW-5R (590-15904-1)	9/14/21	17:20 Pacific		Water			X	X	X	3	
B-19 (590-15904-2)	9/14/21	17:20 Pacific		Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Madison Vaughan	9/16/21 2:43	ETAS80	Tom Blank	9/17/21 1005	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR9 1.4/1.4 2.9/2.9

Login Sample Receipt Checklist

Client: AECOM

Job Number: 590-15904-1

Login Number: 15904
List Number: 1
Creator: Arrington, Randee E

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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 <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: 590-15904-1

Login Number: 15904
List Number: 2
Creator: Blankinship, Tom X

List Source: Eurofins FGS, Seattle
List Creation: 09/17/21 03:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.4°, 2.9°C
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?	False	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.	False	Preservation labels on samples match COC
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C
Data Validation Review, Third Quarter 2021

AECOM

Memorandum

AECOM
1111 3rd Ave
Suite 1600
Seattle, WA 98101
www.aecom.com

206 438 2700 tel
866 495 5288 fax

To	Renee Knecht, Project Manager	Info	FINAL
Subject	Summary Data Quality Review Phillips 66 – D Street Terminal, Tacoma Washington 2021 Third Quarter Groundwater Sampling		
From	Lucy Panteleeff, Chemist Jennifer B. Garner, Chemist		
Date	October 19, 2021		

The summary data quality review of 31 groundwater samples and 3 trip blanks collected on September 13 and September 14, 2021, has been completed. The samples were analyzed at Eurofins TestAmerica Laboratories, Incorporated (ETA) laboratories located in Spokane and Seattle, Washington for benzene, toluene, ethylbenzene, 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 heavy oil-range TPH); naphthalenes by EPA Method 8270E modified by selected ion monitoring (SIM); metals by EPA Method 6020B (total and dissolved lead and dissolved manganese); anions by EPA Method 300.0 (sulfate and nitrate as nitrogen); and/or total alkalinity by EPA Method 310.1. 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 TA laboratory groups 590-15884-1, 590-15898-1, and 590-15904-1:

Sample ID	Laboratory Group	Laboratory ID	Requested Analyses
B-25	590-15884-1	590-15884-1	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
T-2		590-15884-2	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
B-31		590-15884-3	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
E-22		590-15884-4	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
E-21		590-15884-5	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
RR-5		590-15884-6	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
RR-4		590-15884-7	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
RR-4 Dup (field duplicate of RR-4)		590-15884-8	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
Trip Blank		590-15884-9	BTEX
RR-3	590-15898-1	590-15898-1	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity, Naphthalenes
RR-2		590-15898-2	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity, Naphthalenes
G-18		590-15898-3	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
DMW-1		590-15898-4	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
FW-3		590-15898-5	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
DMW-3		590-15898-6	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
FW-4		590-15898-7	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity, Naphthalenes
FW-5R		590-15898-8	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity, Naphthalenes
T-3		590-15898-9	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
HC-111		590-15898-10	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
FW-13		590-15898-11	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
FW-13 DUP (field duplicate of FW-13)		590-15898-12	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity

AECOM

Summary Data Quality Review
Phillips 66 - D Street Terminal, Tacoma, Washington
2021 Third Quarter Groundwater Sampling
Laboratory Groups: 590-15884-1, 590-15898-1, and 590-15904-1

Sample ID	Laboratory Group	Laboratory ID	Requested Analyses
DMW-2	590-15898-1 (continued)	590-15898-13	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
G-8		590-15898-14	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
FW-14		590-15898-15	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity, Naphthalenes
RW-2		590-15898-16	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
B-17B		590-15898-17	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
FW-15		590-15898-18	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
RR-1		590-15898-19	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
RW-8		590-15898-20	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
B-34		590-15898-21	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
Trip Blank		590-15898-22	BTEX
RW-5R	590-15904-1	590-15904-1	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
B-19		590-15904-2	BTEX, TPH-Gx, TPH-Dx, Metals, Anions, Alkalinity
Trip Blank		590-15904-3	BTEX

Data were evaluated based on validation criteria established in the *National Functional Guidelines for Organic Superfund Methods Data Review*, dated January 2020, and *National Functional Guidelines for Inorganic Superfund Methods Data Review*, January 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 may be 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 laboratories, the sample jar information was compared to the associated chain-of-custody (COC) and the cooler temperatures were recorded. No discrepancies related to sample identifications 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 COC associated with laboratory group 590-15884-1 indicated that the samples should be analyzed for naphthalenes. At the direction of AECOM, these samples were not analyzed for naphthalenes.

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

3. Surrogates – Acceptable except as noted below:

   Naphthalenes by Method 8270E-SIM – The surrogate terphenyl-d14 was not recovered in the diluted analysis (x100) of FW-5R. The percent recovery for terphenyl-d14 in the initial analysis (x1) of FW-5R was acceptable; therefore, data were not qualified based on the dilution 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 performed using B-25. Benzene exceed the calibration range of the instrument in the MS and MSD and the laboratory was unable to quantify the MS/MSD recoveries for benzene; therefore, precision and accuracy were not assessed for benzene. Results for toluene, ethylbenzene, and total xylenes were acceptable.

   NWTPH-Gx – An MS/MSD was performed in using B-25. Results were acceptable.

   NWTPH-Dx – An MS/MSD was performed in using B-25. 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

   General – Field duplicates were submitted for RR-4 and FW-13 and identified as RR-4 Dup and FW-13 Dup, respectively. Results were comparable for all analytes reported at concentrations greater than five times the reporting limits.

7. Reporting Limits – Acceptable except as noted below:

   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 method detection limit (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 result.

8. Other Items of Note:

   NWTPH-Dx – The laboratory noted the following:

   - Detected hydrocarbons in diesel range appeared to be due to gasoline overlap as well as heavily weathered diesel in T-3, G-8, and B-19.
   - Detected hydrocarbons in the diesel range appeared to be due to heavily weathered diesel in E-22, E-21, RR-5, DMW-1, FW-3, DMW-3, FW-4, FW-13, DMW-2, and RR-1.
   - Detected hydrocarbons in the diesel range appeared to be due to weathered diesel in B-31, G-18, HC-111, RW-8, and B-34.
   - Detected hydrocarbons in the diesel range appeared to be due gasoline overlap in B-25, RW-2, and RW-5R.
   - Detected hydrocarbons in the diesel range appeared to be due to individual peaks and resemble creosote or similar product in FW-5R.

Metals

Samples were analyzed for total and/or dissolved metals by EPA Method 6020A.

1. Holding Times – Acceptable

2. Blanks – Acceptable

3. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) – Acceptable

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable

   MS/MSDs for total and/or dissolved metals were performed using B-25 and FW-13. Results were acceptable.

5. Laboratory Duplicate – Acceptable

   Laboratory duplicates for total and/or dissolved metals were performed using B-25 and FW-13. Results were comparable.

6. Field Duplicates – Acceptable

   Field duplicates were submitted for RR-4 and FW-13 and identified as RR-4 Dup and FW-13 Dup, respectively. Results were comparable for all analytes reported at concentrations more than five times the reporting limits.

7. Reporting Limits – Acceptable

   One or more results 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 noted above, there is a greater level of uncertainty associated with the numerical result.

Conventional Analyses

Samples were analyzed for sulfate, nitrate, and alkalinity by the methods identified in the introduction of this report.

1. Holding Times – Acceptable except as noted below:

   Anions by EPA Method 300.0 – B-25, FW-4, and B-19 were received and/or analyzed outside the method recommended holding time of 48 hours for nitrate. The results for nitrate in B-25, FW-4, and B-19 were qualified as estimated and flagged 'UJ' based on this holding time exceedance.

2. Blanks – Acceptable (where applicable)

3. Laboratory Control Sample (LCS) – Acceptable

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable (where applicable)

   Anions by EPA Method 300.0 – MS/MSDs were performed using B-25, FW-13, and RW-5R. Results were acceptable.

   Alkalinity by EPA Method 310.1 – An MS/MSD was not performed in association with this analysis. Accuracy was assessed using the LCS results. Precision was assessed using the field duplicate results.

5. Laboratory Duplicate – Acceptable

   Anions by EPA Method 300.0 – Laboratory duplicates were performed using B-25 and RW-5R. Results were comparable.

   Alkalinity by EPA Method 310.1 – A laboratory duplicate was performed using B-25. Results were comparable.

6. Field Duplicates - Acceptable

   General – Field duplicates were submitted for RR-4 and FW-13 and identified as RR-4 Dup and FW-13 Dup, respectively. Results were comparable for all analytes reported at concentrations more than five times the reporting limits.

7. Reporting Limits – Acceptable

   Anions by EPA Method 300.0 – One or more results 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 noted above, there is a greater level of uncertainty associated with the numerical result.

   The reporting limits for nitrate reported as not detected in several samples were elevated due to dilutions made for high concentrations of non-target analytes. The elevated reporting limits do not affect the use of the data.

Overall Assessment of Data

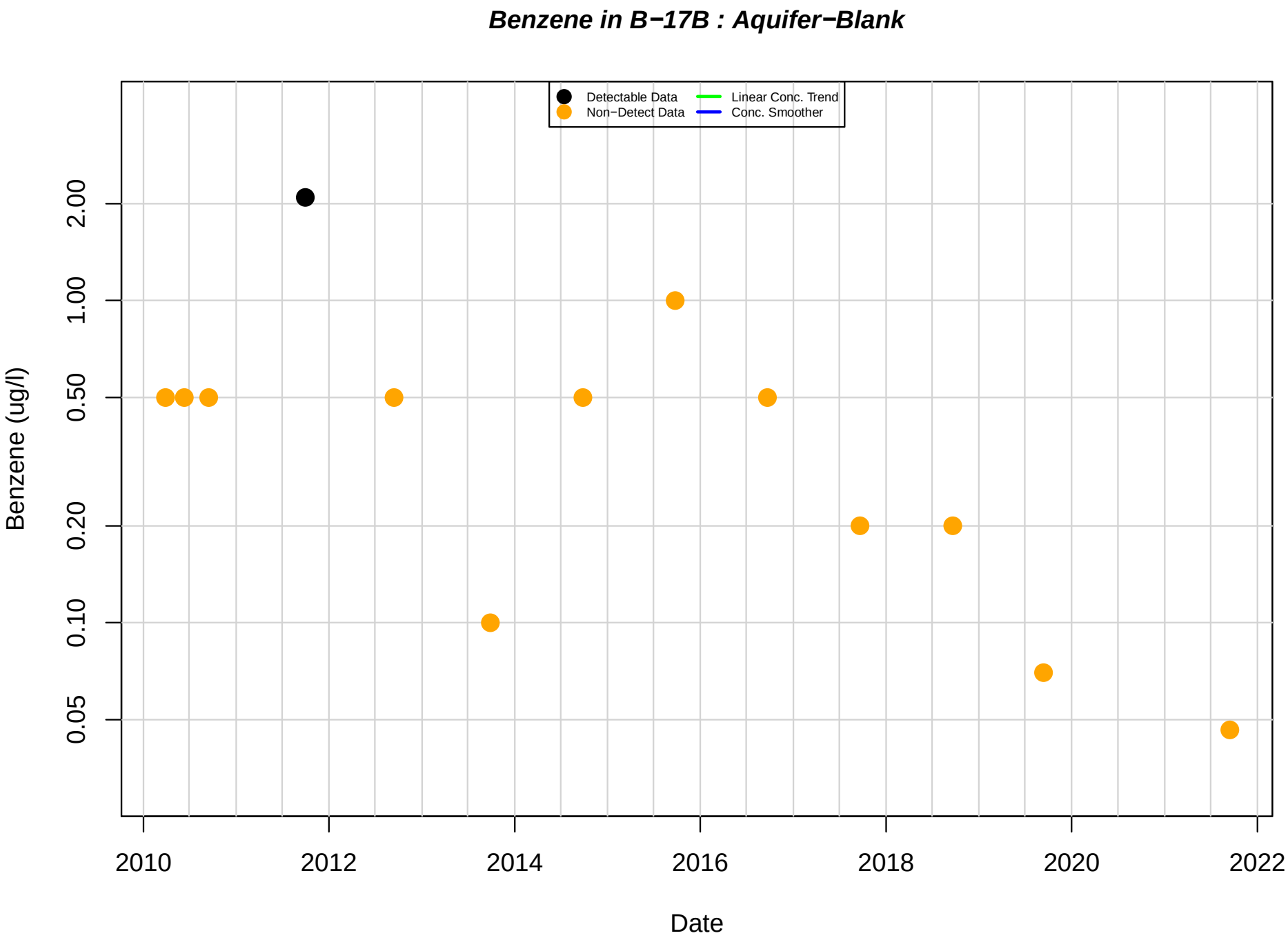
The data reported in these laboratory groups, as qualified, are considered to be usable for meeting project objectives. The completeness for ETA laboratory groups 590-15884-1, 590-15898-1, and 590-15904-1 is 100%.

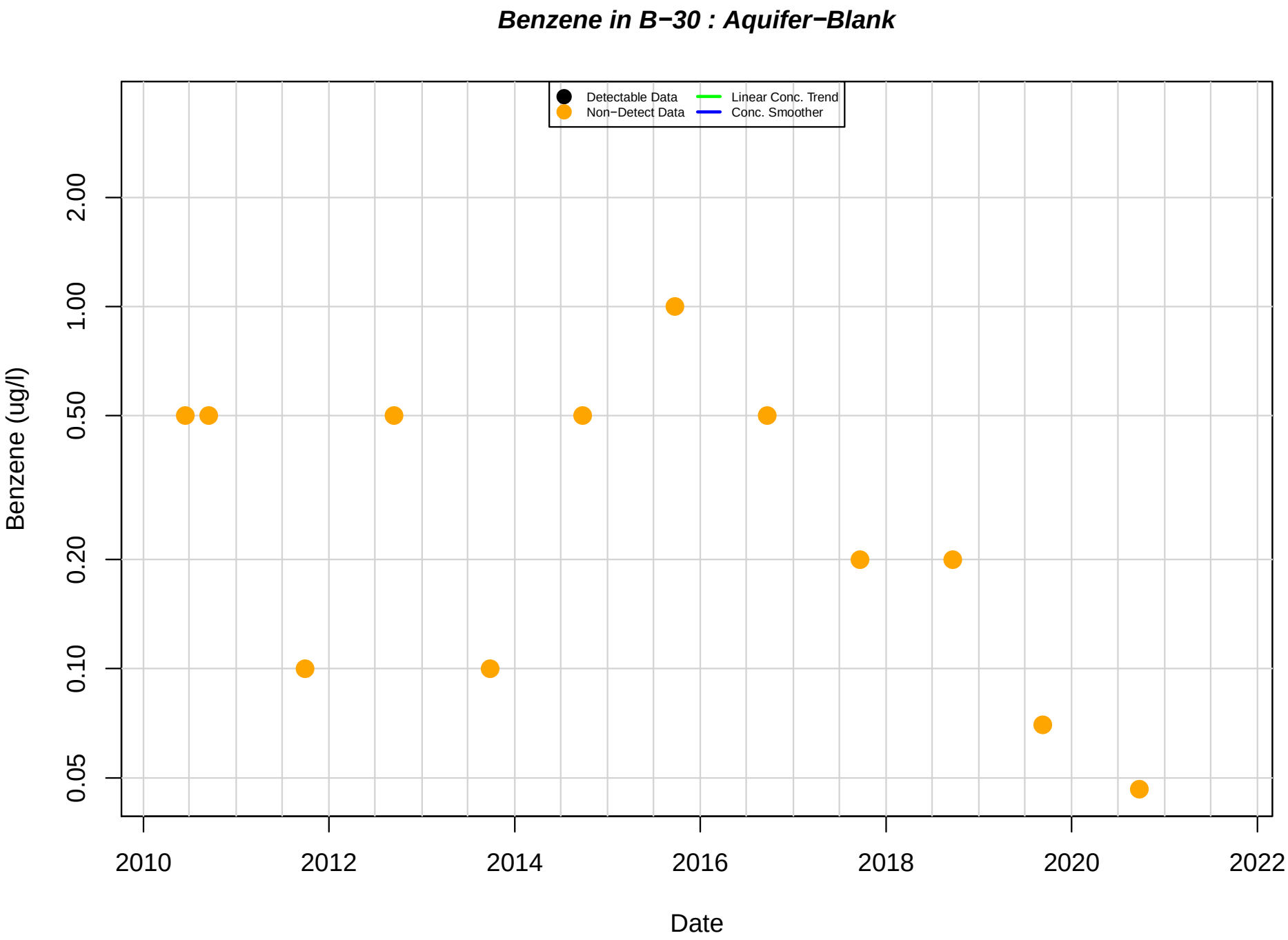
Table 1 - Summary of Qualified Data

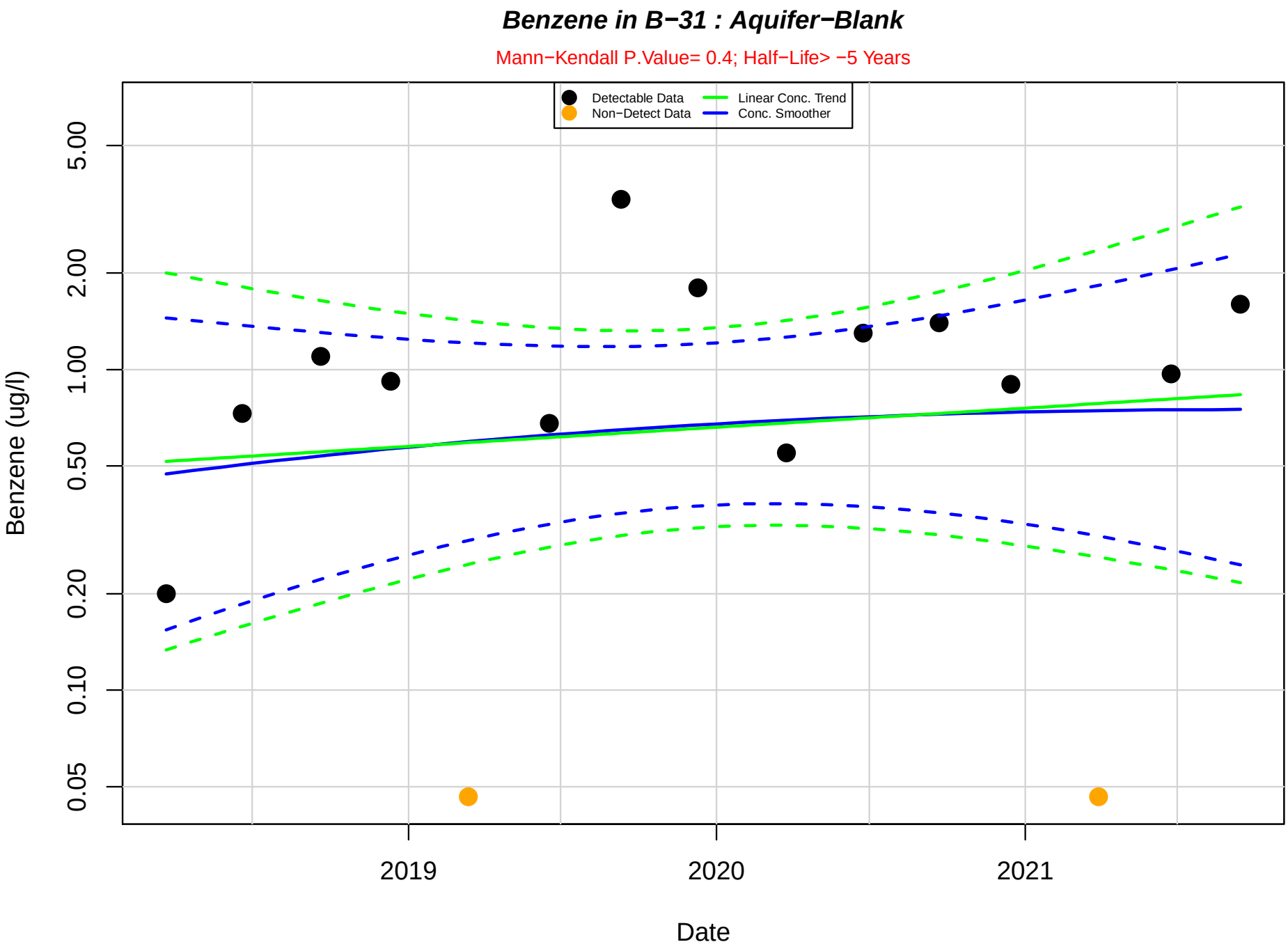
Sample ID	Laboratory ID	Analyte	Laboratory Result	Units	Final Result	Reason
B-25	590-15884-1	Nitrate as N	0.057 U	mg/L	0.057 UJ	Holding time
FW-4	590-15898-7	Nitrate as N	0.057 U	mg/L	0.057 UJ	Holding time
B-19	590-15904-2	Nitrate as N	0.057 U	mg/L	0.057 UJ	Holding time

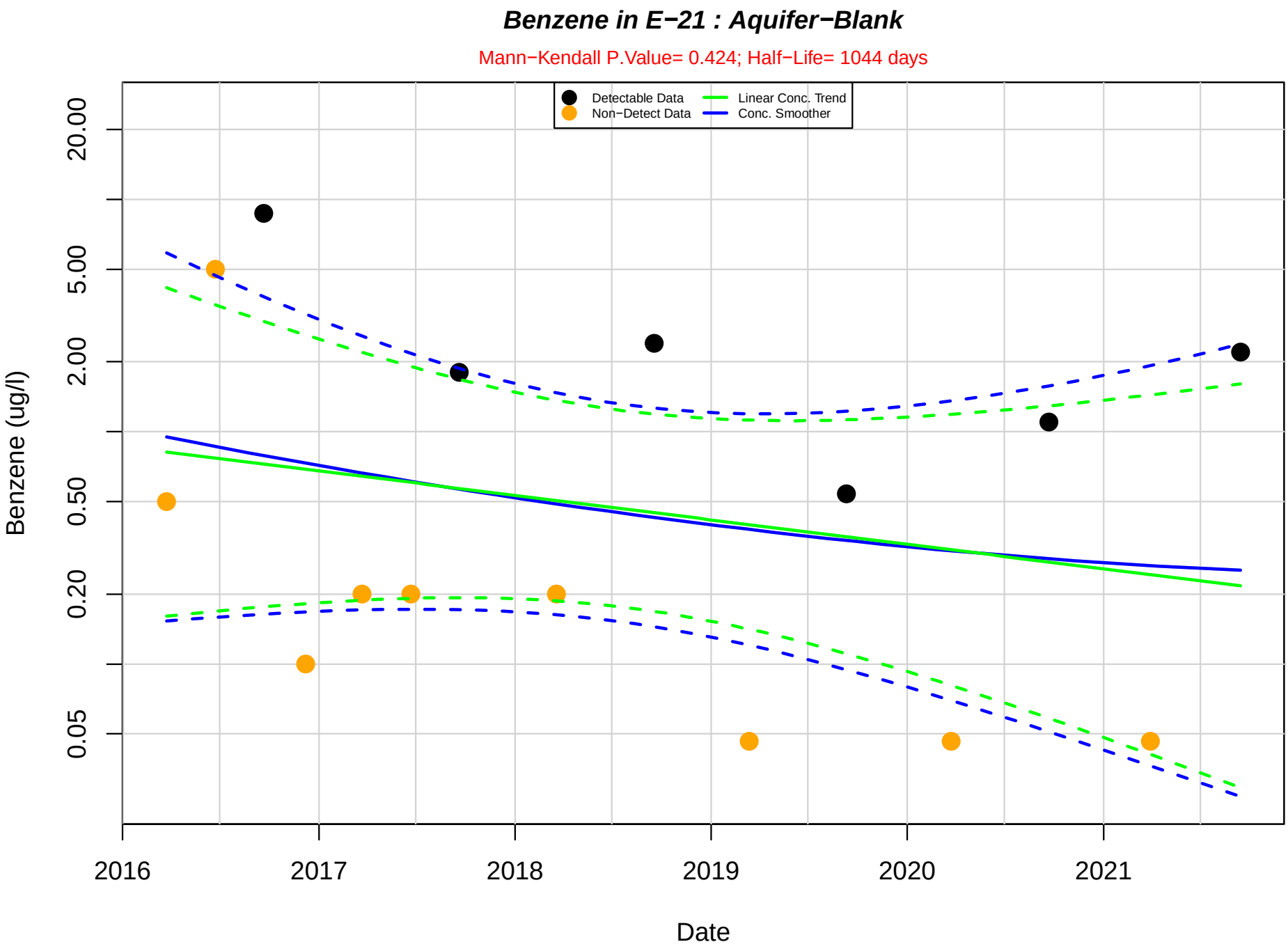
Appendix D

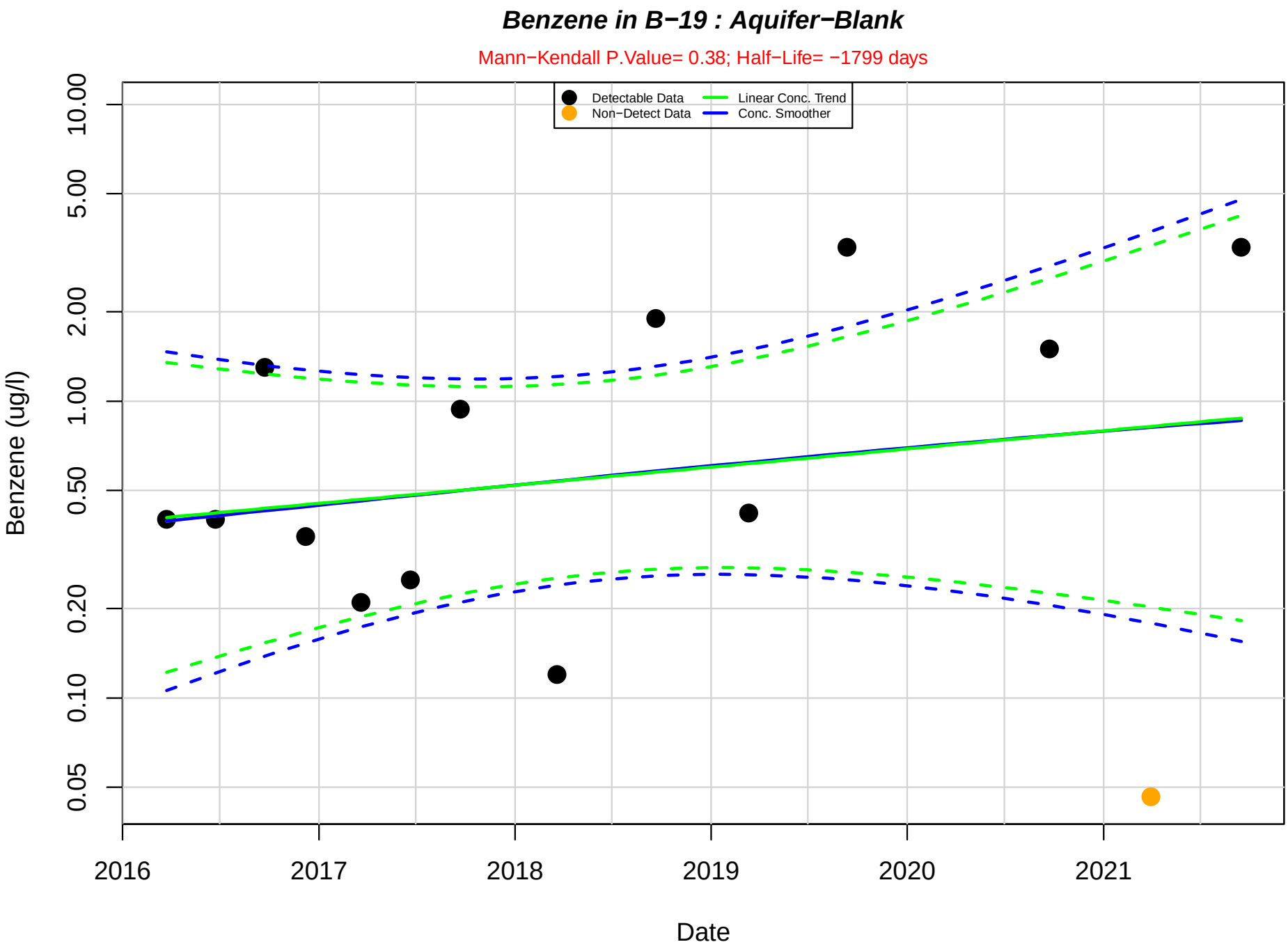
GWSDAT Plots: Time vs. Concentration with Mann-Kendall

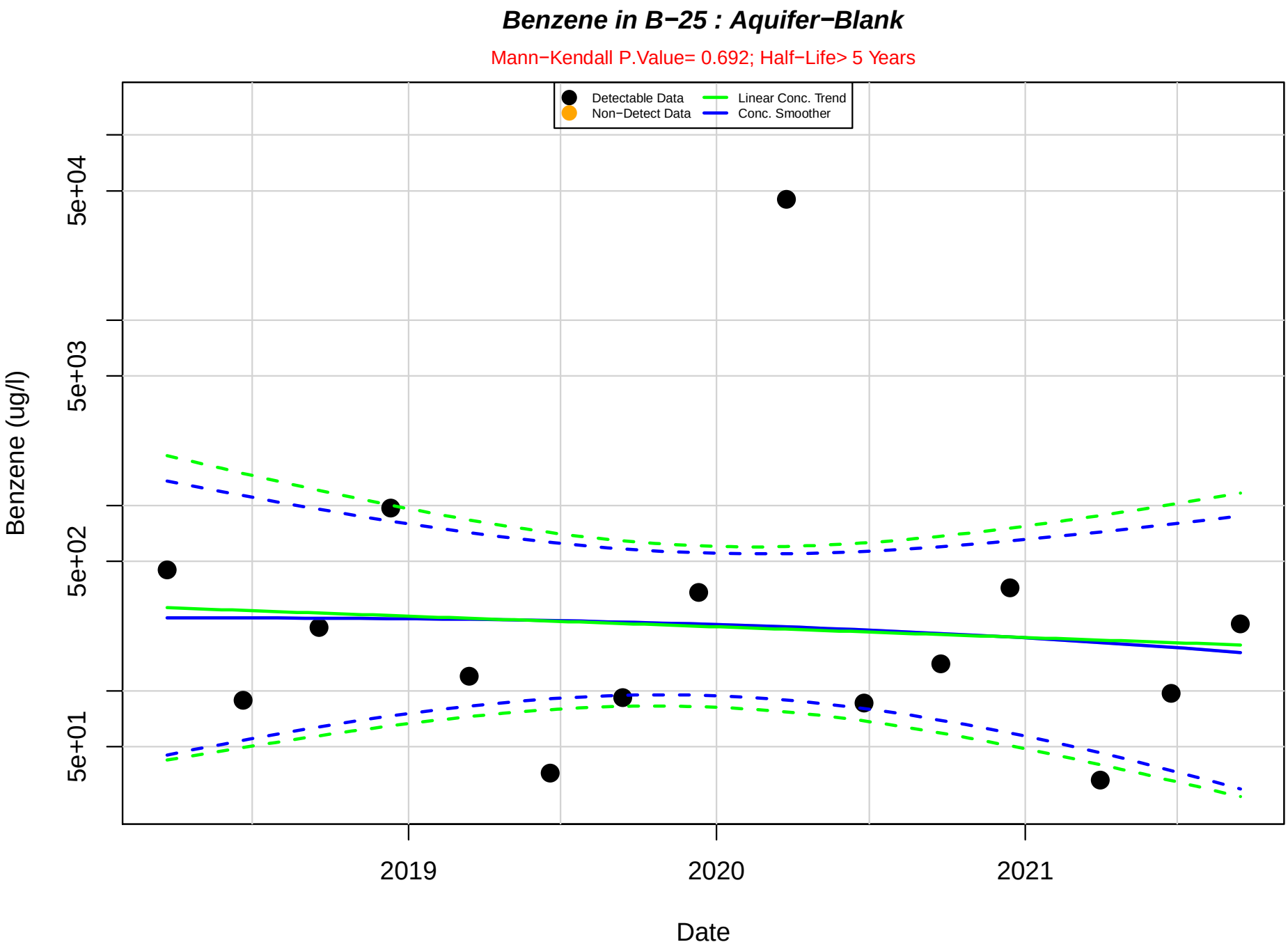

Benzene in B−17B : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

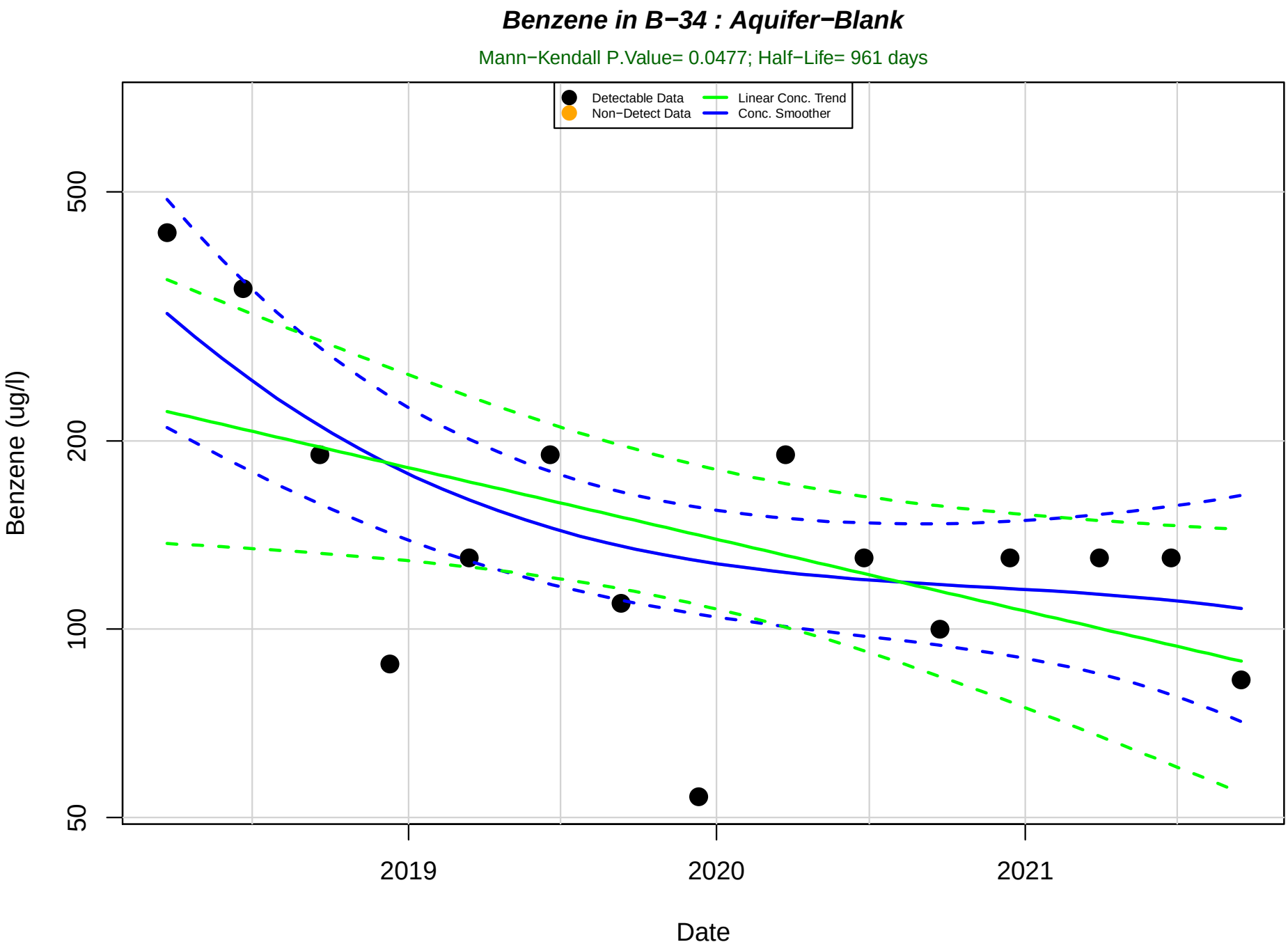

Benzene in B−30 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

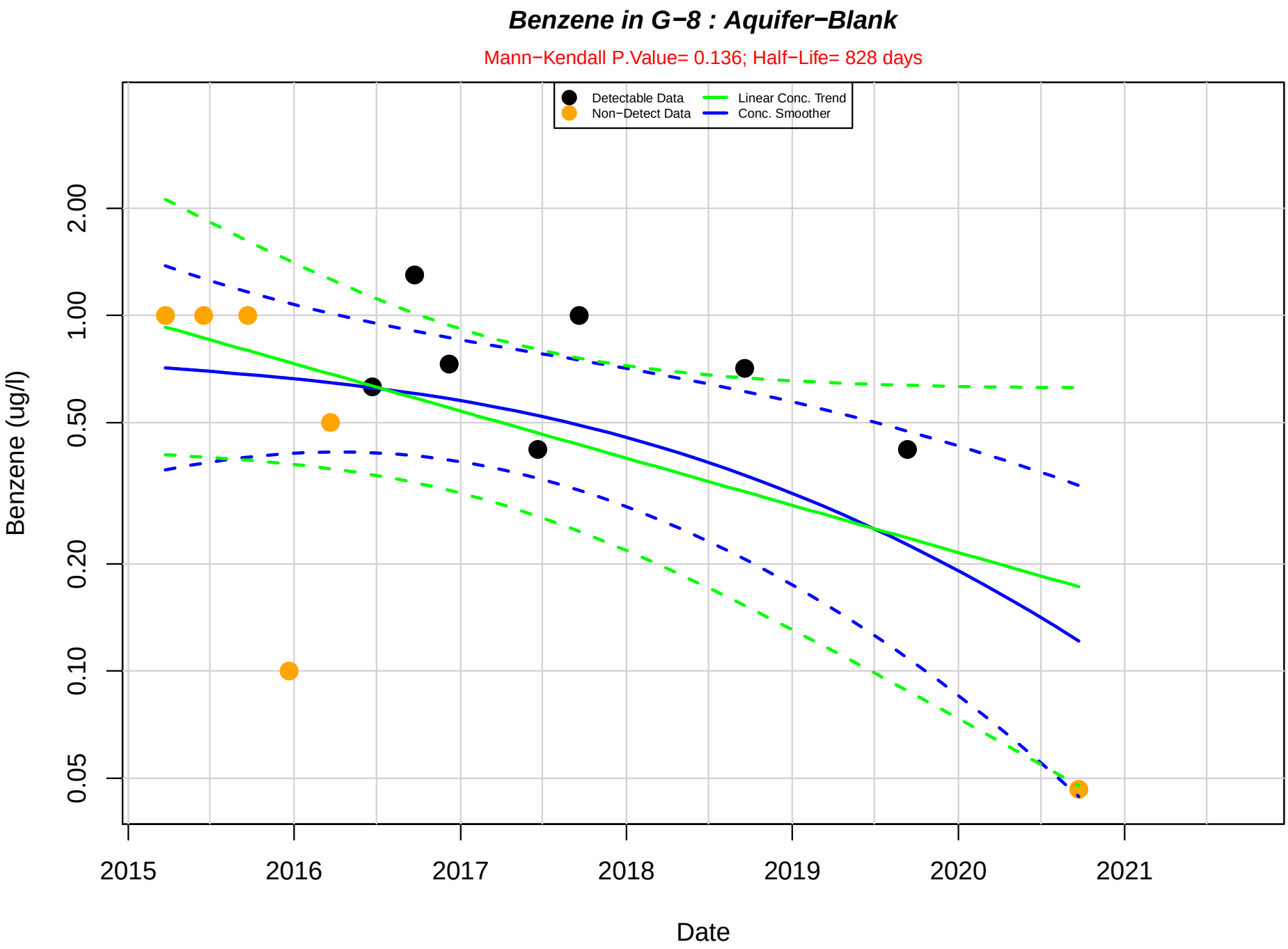

Benzene in B−31 : Aquifer−Blank
Mann−Kendall P.Value= 0.4; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
5.00
2.00
1.00
0.50
0.20
0.10
0.05
2019
2020
2021
Date

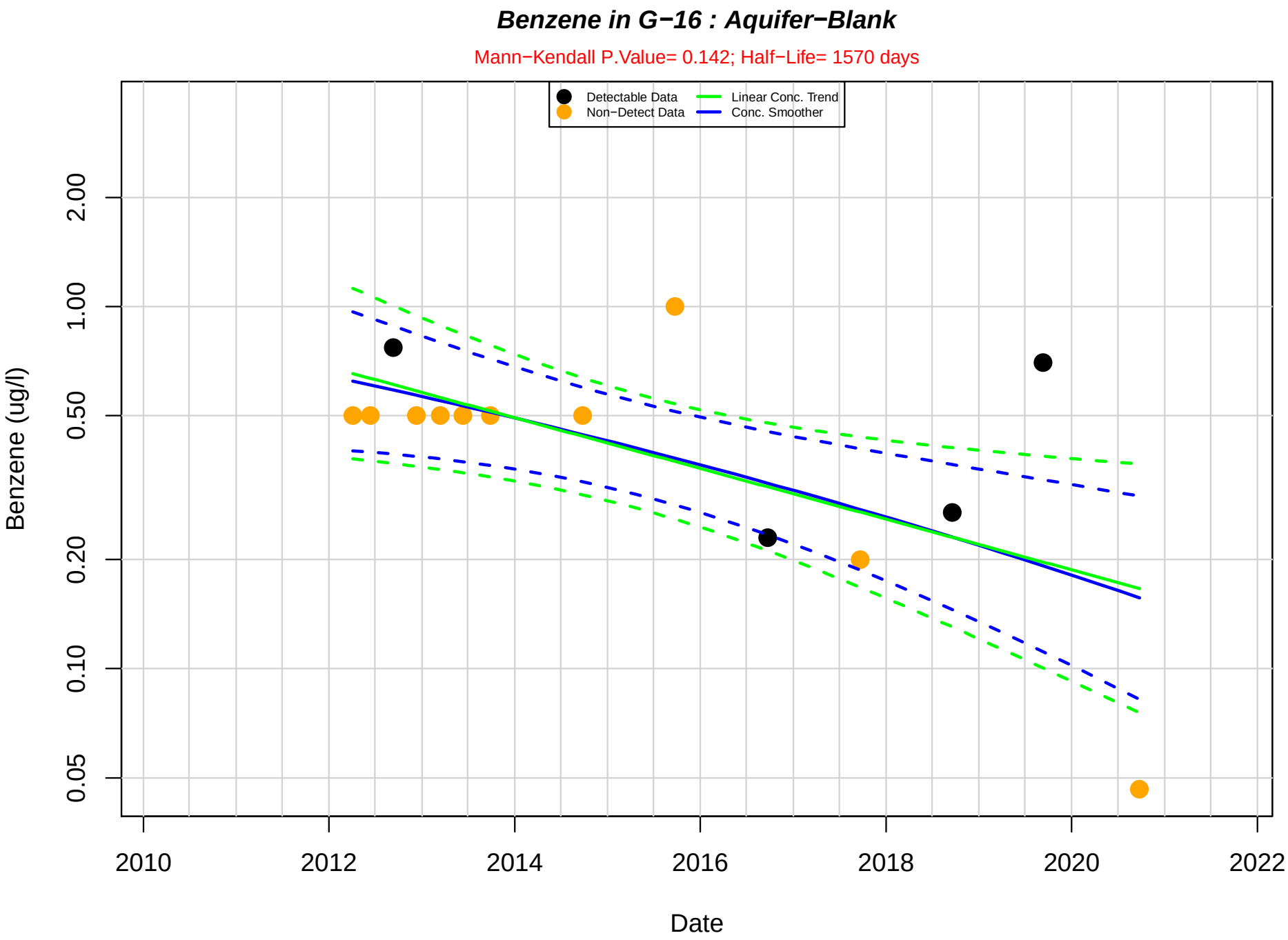

Benzene in E−21 : Aquifer−Blank
Mann−Kendall P.Value= 0.424; Half−Life= 1044 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
20.00
5.00
2.00
0.50
0.20
0.05
2016
2017
2018
2019
2020
2021
Date

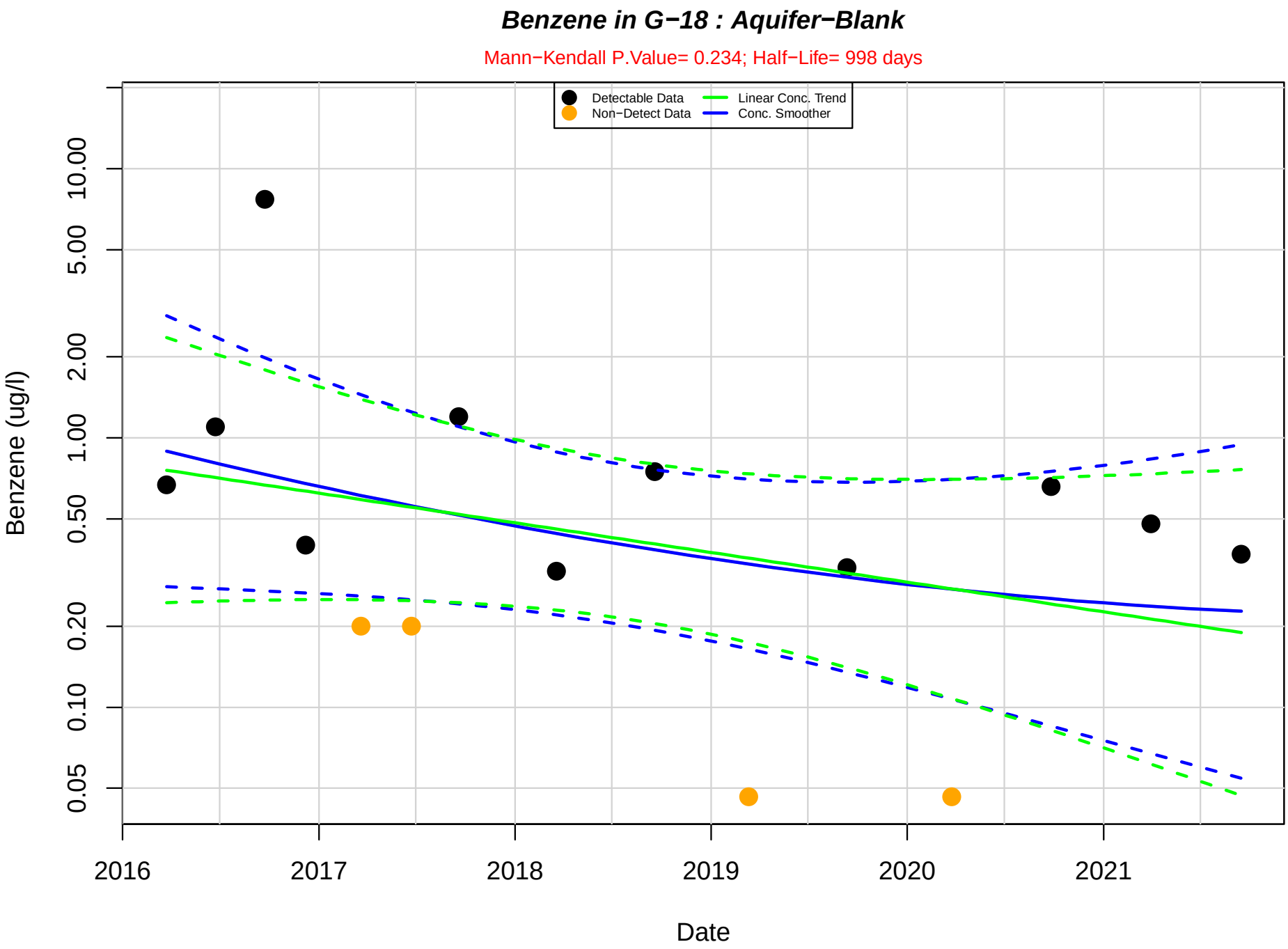

Benzene in B−19 : Aquifer−Blank
Mann−Kendall P.Value= 0.38; Half−Life= −1799 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
10.00
5.00
2.00
1.00
0.50
0.20
0.10
0.05
2016
2017
2018
2019
2020
2021
Date

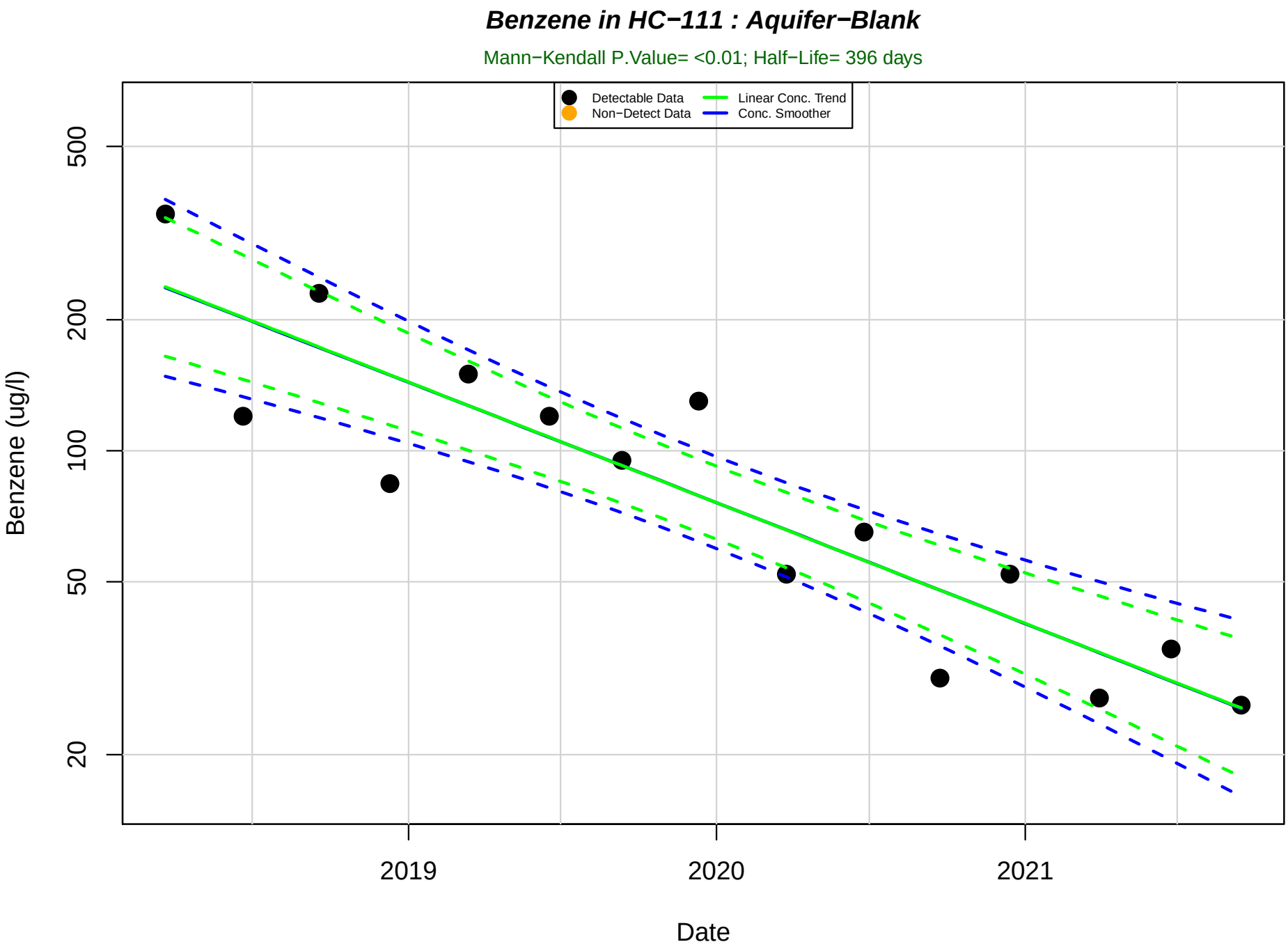

Benzene in B−25 : Aquifer−Blank
Mann−Kendall P.Value= 0.692; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
5e+04
5e+03
5e+02
5e+01
2019
2020
2021
Date

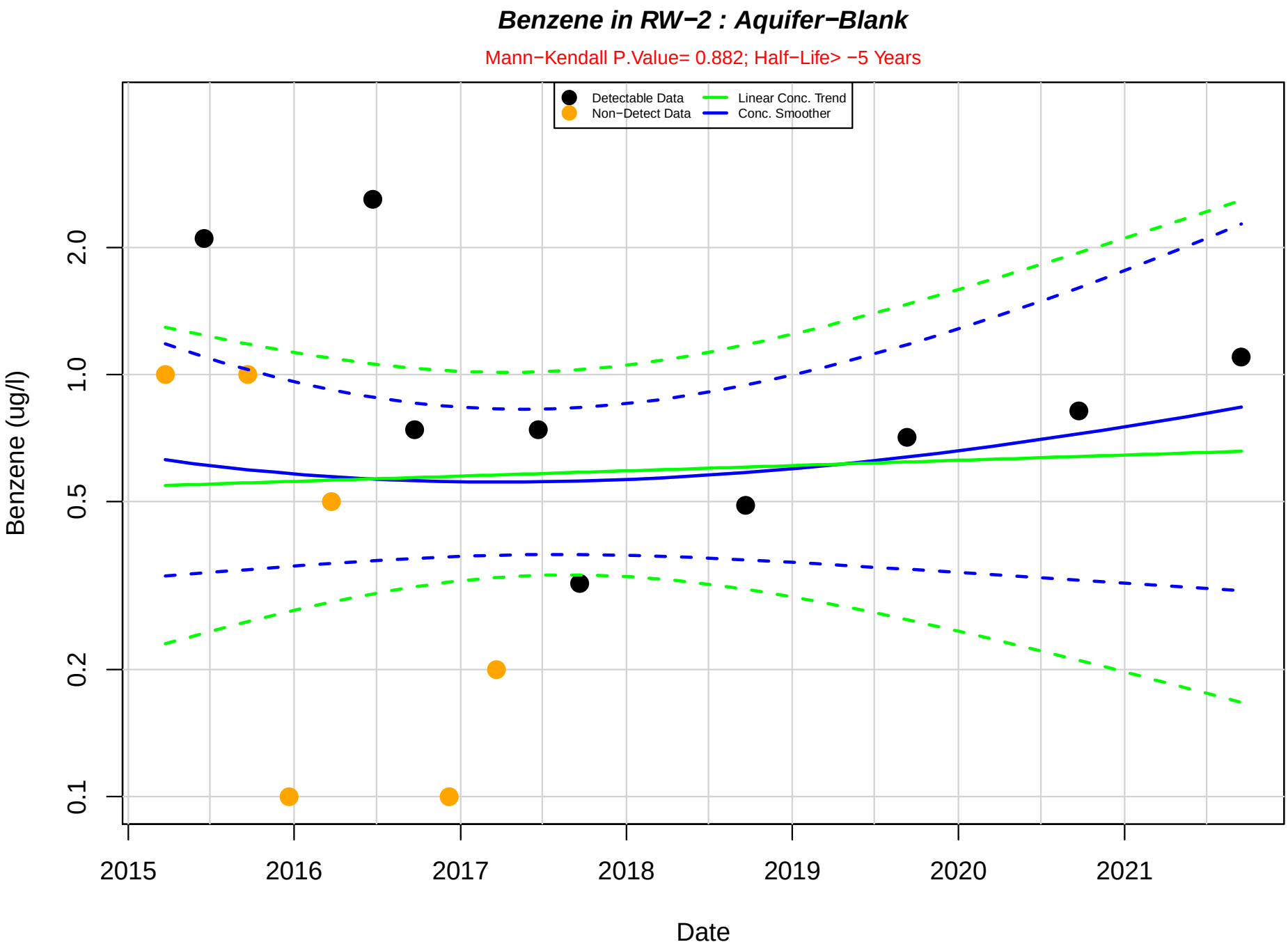

Benzene in B−34 : Aquifer−Blank
Mann−Kendall P.Value= 0.0477; Half−Life= 961 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
500
200
100
50
2019
2020
2021
Date

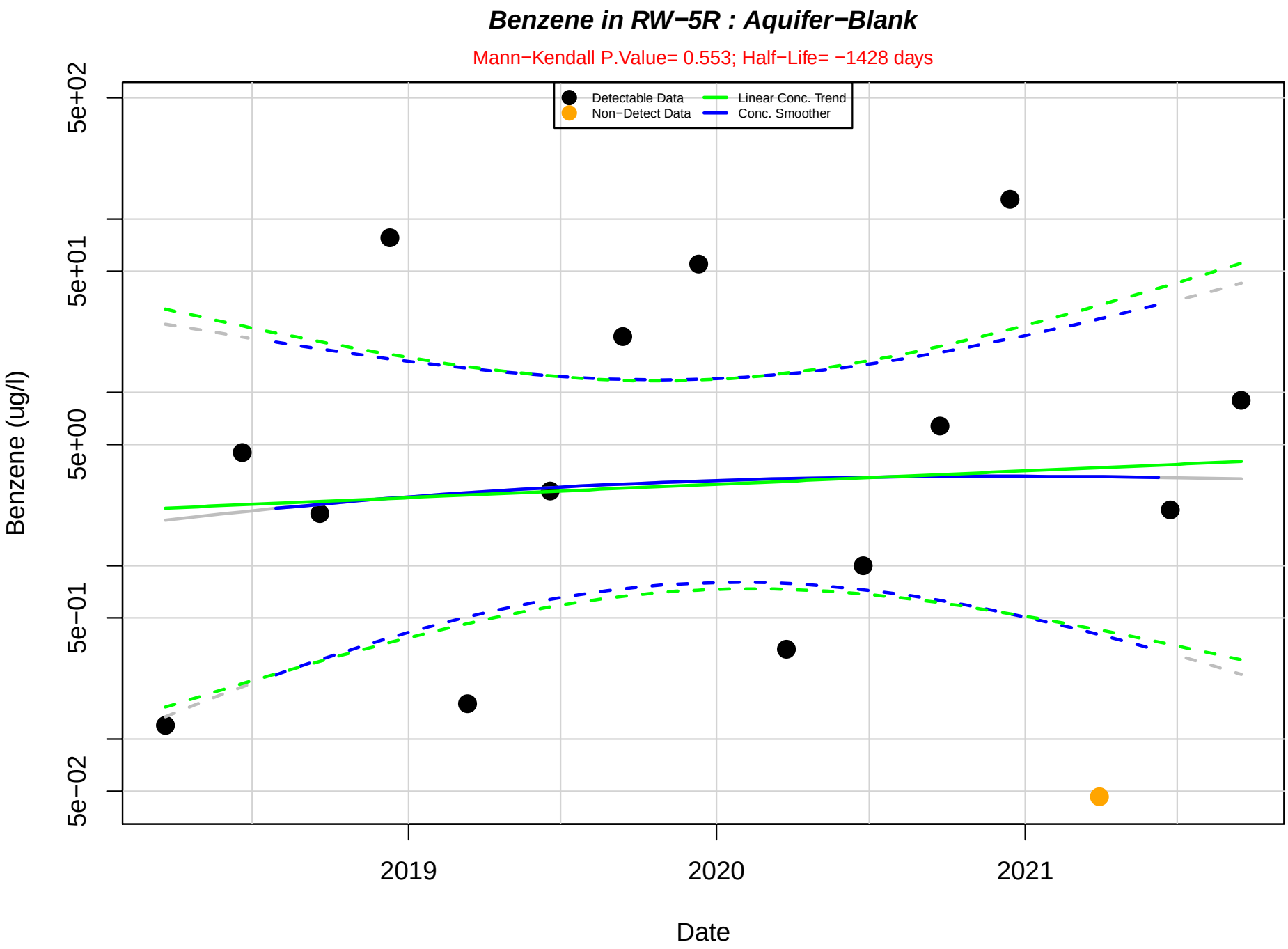

Benzene in G−8 : Aquifer−Blank
Mann−Kendall P.Value= 0.136; Half−Life= 828 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2015
2016
2017
2018
2019
2020
2021
Date

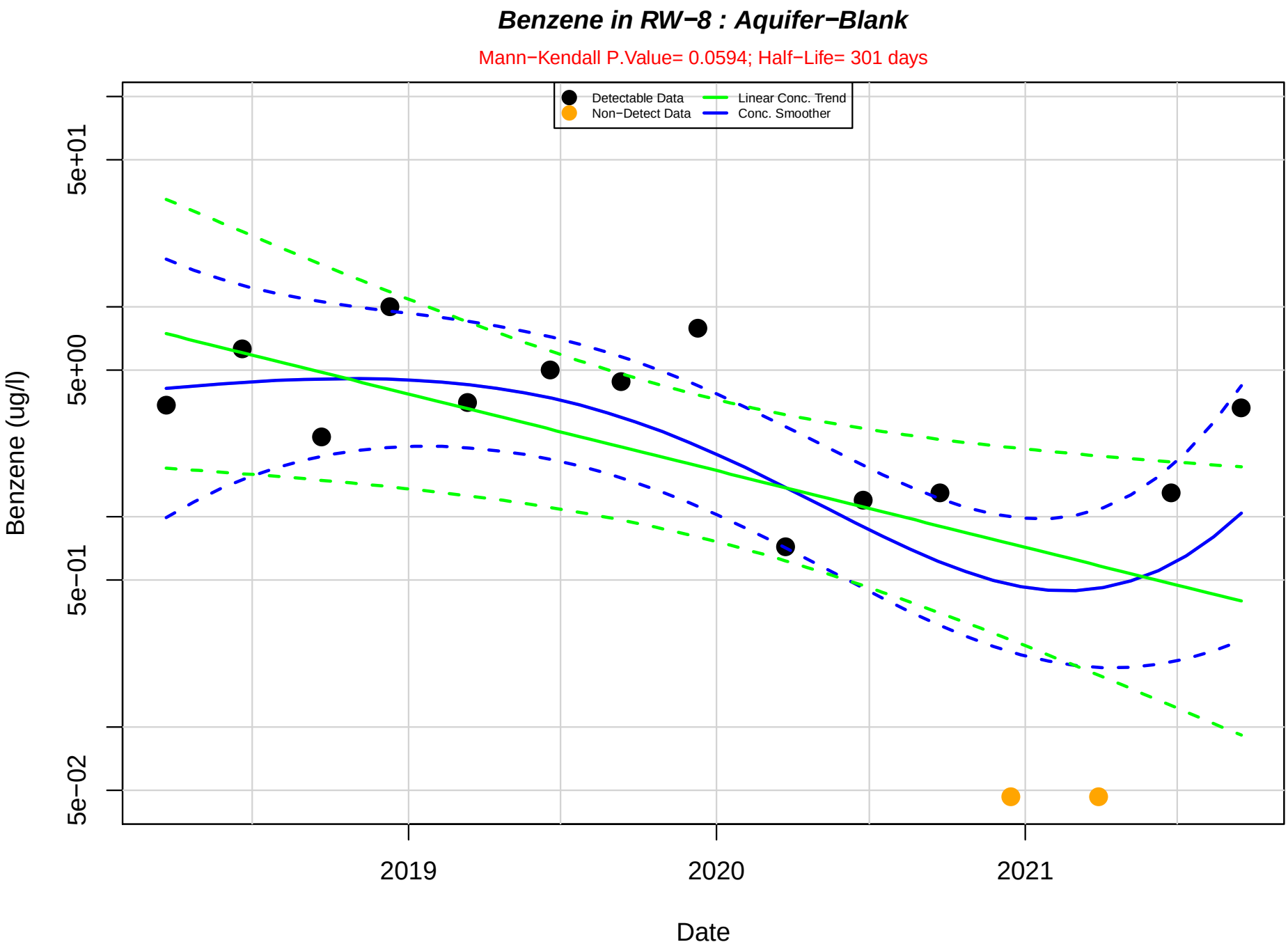

Benzene in G−16 : Aquifer−Blank
Mann−Kendall P.Value= 0.142; Half−Life= 1570 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

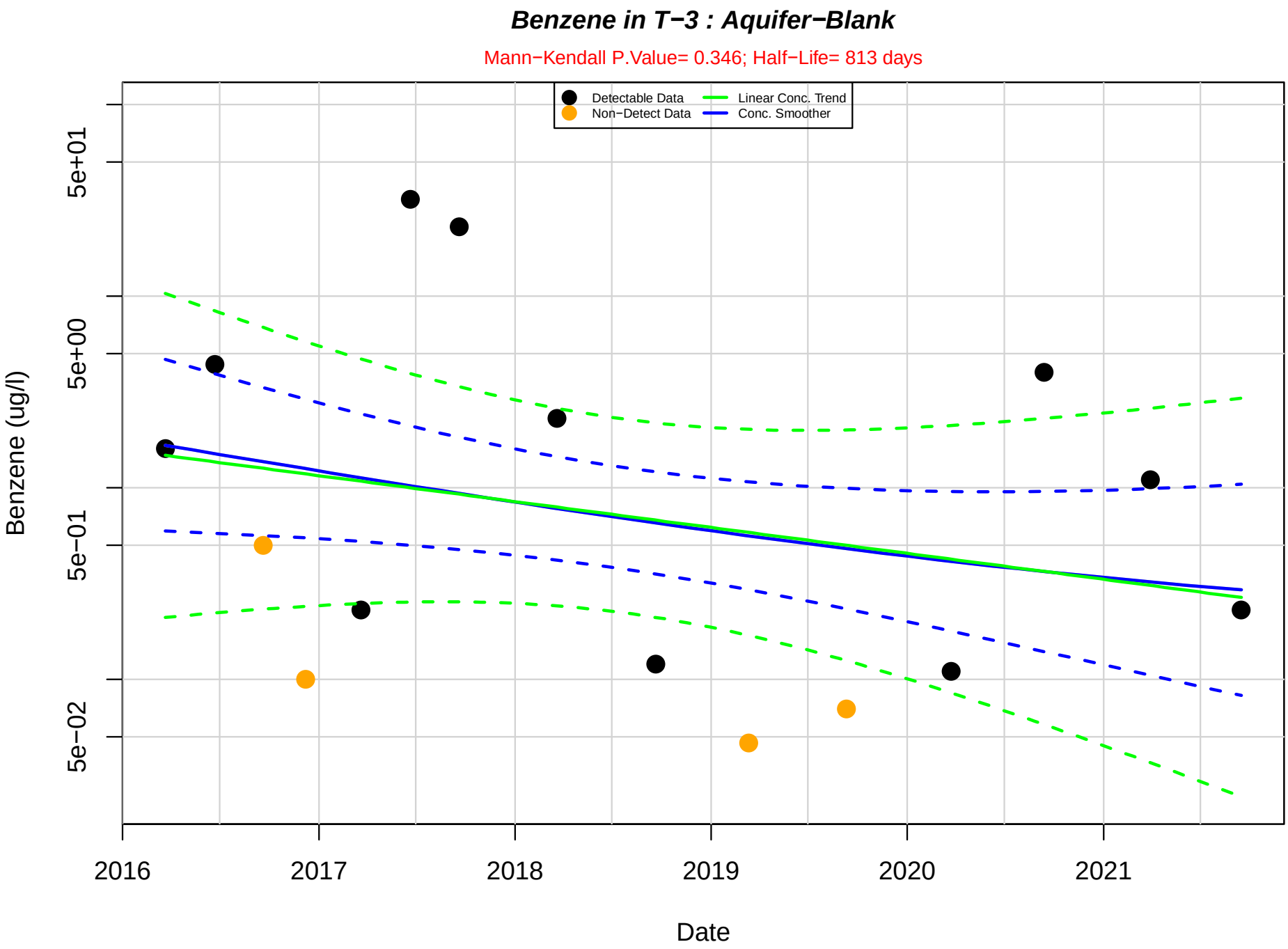

Benzene in G−18 : Aquifer−Blank
Mann−Kendall P.Value= 0.234; Half−Life= 998 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
10.00
5.00
2.00
1.00
0.50
0.20
0.10
0.05
2016
2017
2018
2019
2020
2021
Date

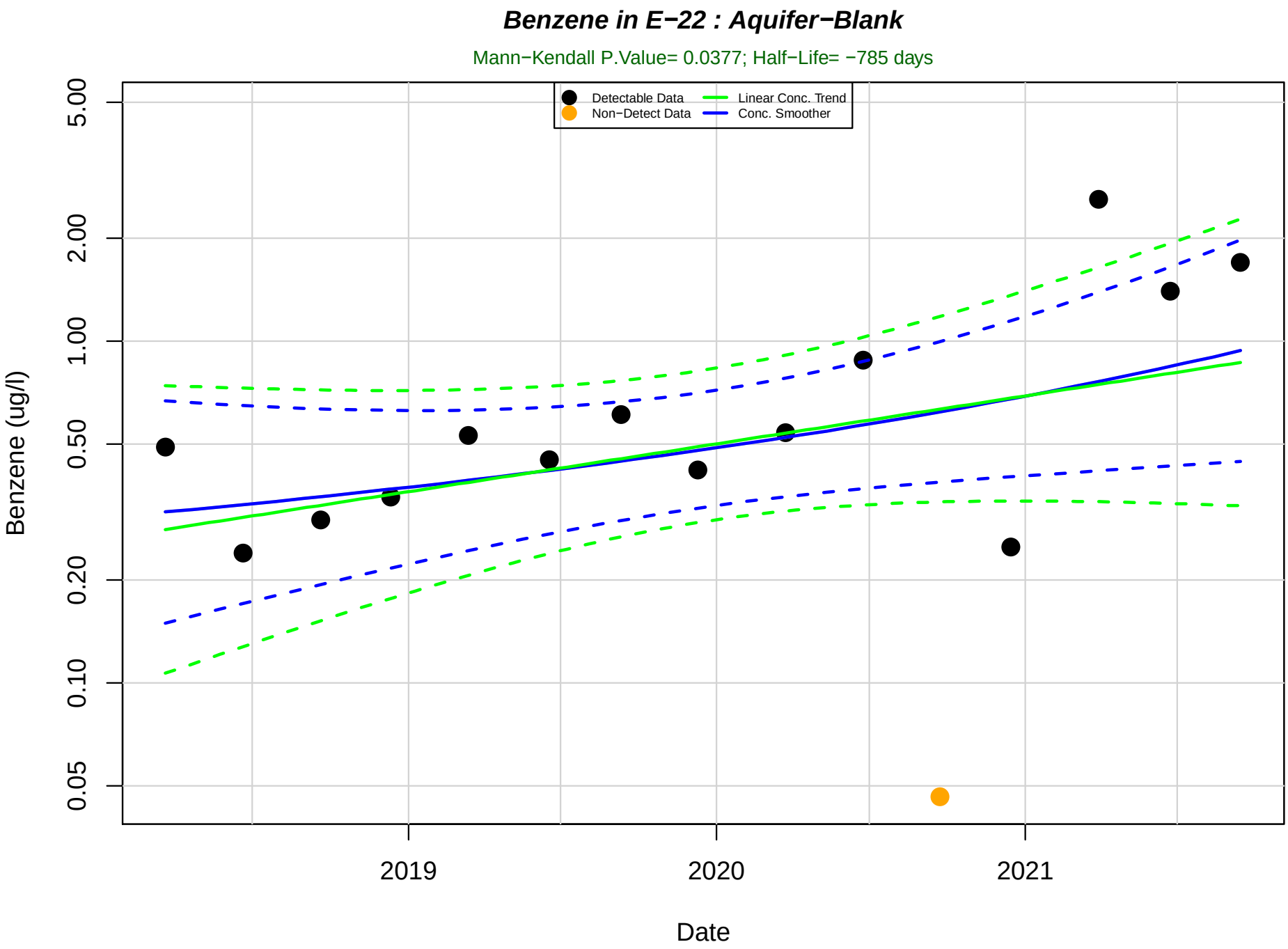

Benzene in HC−111 : Aquifer−Blank
Mann−Kendall P.Value= <0.01; Half−Life= 396 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
500
200
100
50
20
2019
2020
2021
Date

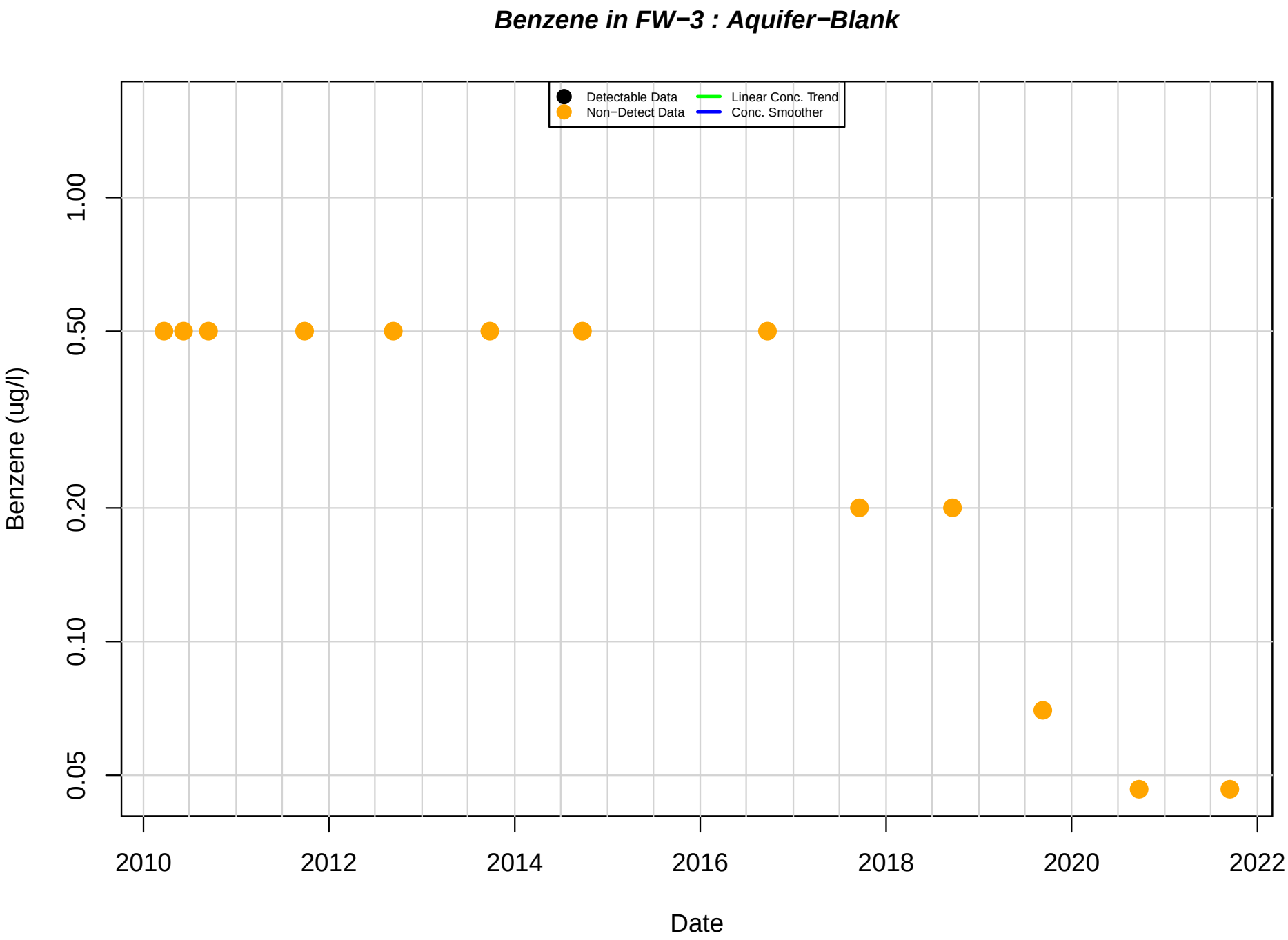

Benzene in RW−2 : Aquifer−Blank
Mann−Kendall P.Value= 0.882; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.1
0.2
0.5
1.0
2.0
2015
2016
2017
2018
2019
2020
2021
Date

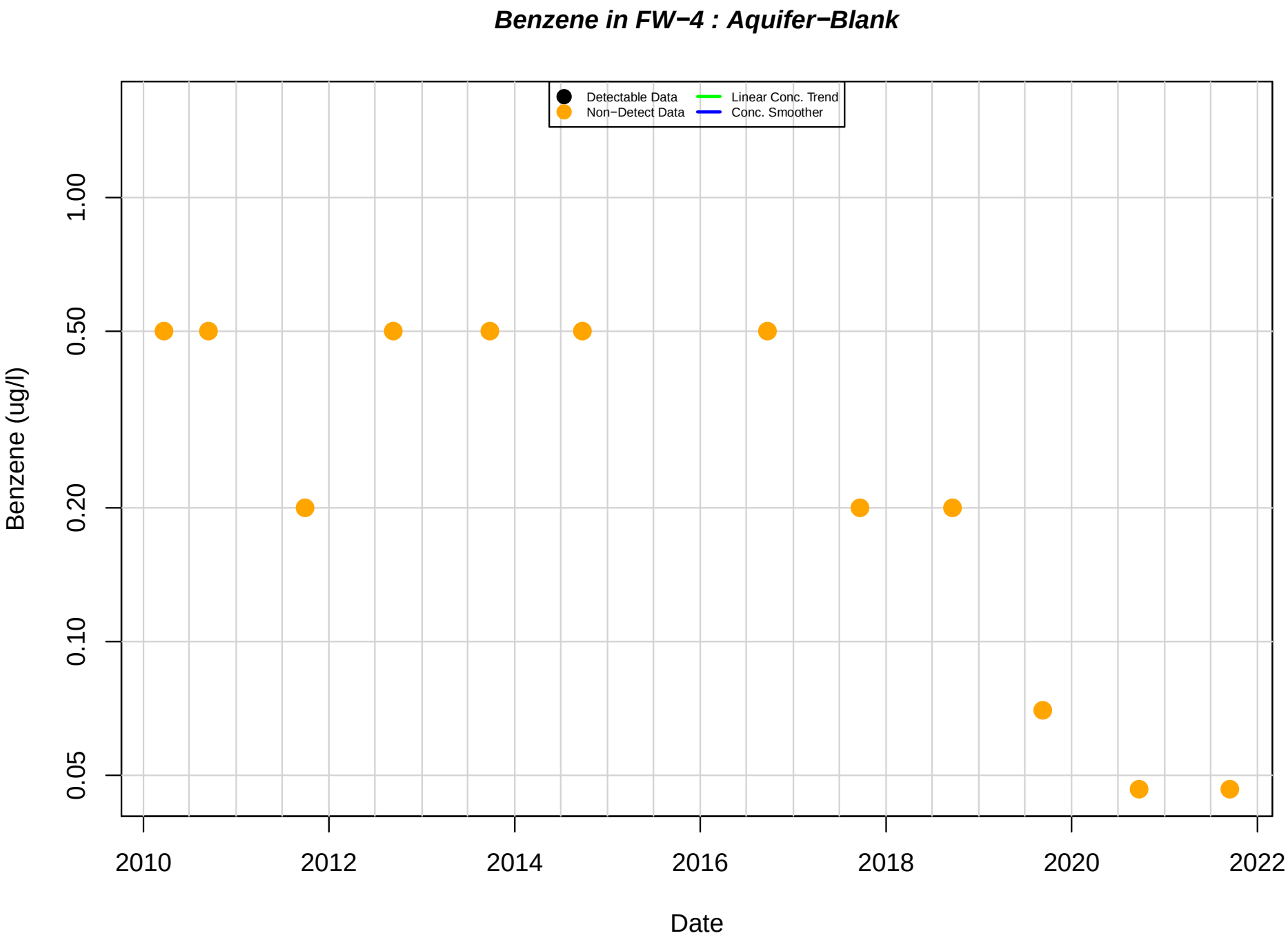

Benzene in RW−5R : Aquifer−Blank
Mann−Kendall P.Value= 0.553; Half−Life= −1428 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
5e+02
5e+01
5e+00
5e−01
5e−02
2019
2020
2021
Date

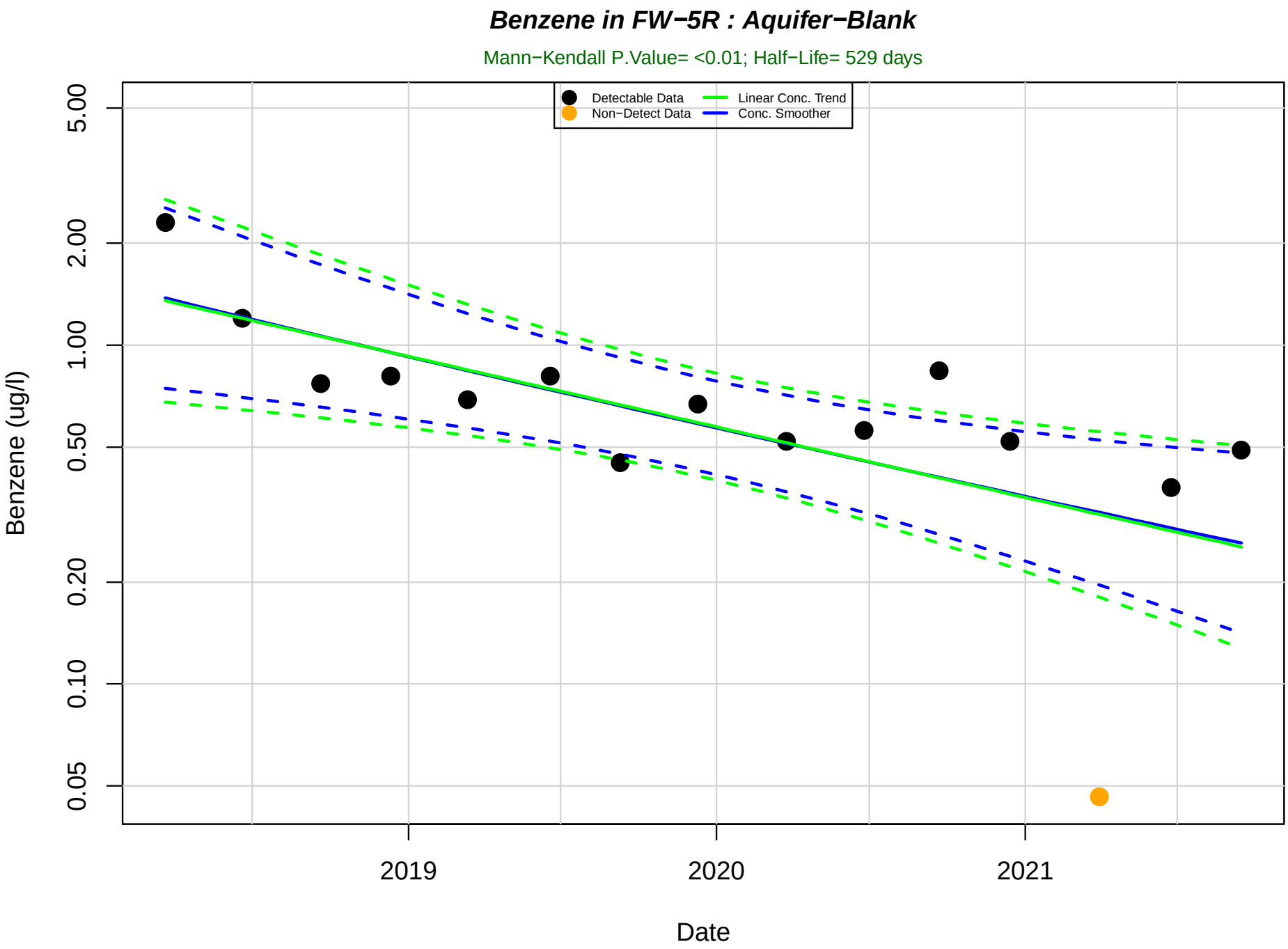

Benzene in RW−8 : Aquifer−Blank
Mann−Kendall P.Value= 0.0594; Half−Life= 301 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
5e+01
5e+00
5e−01
5e−02
Benzene (ug/l)
2019
2020
2021
Date

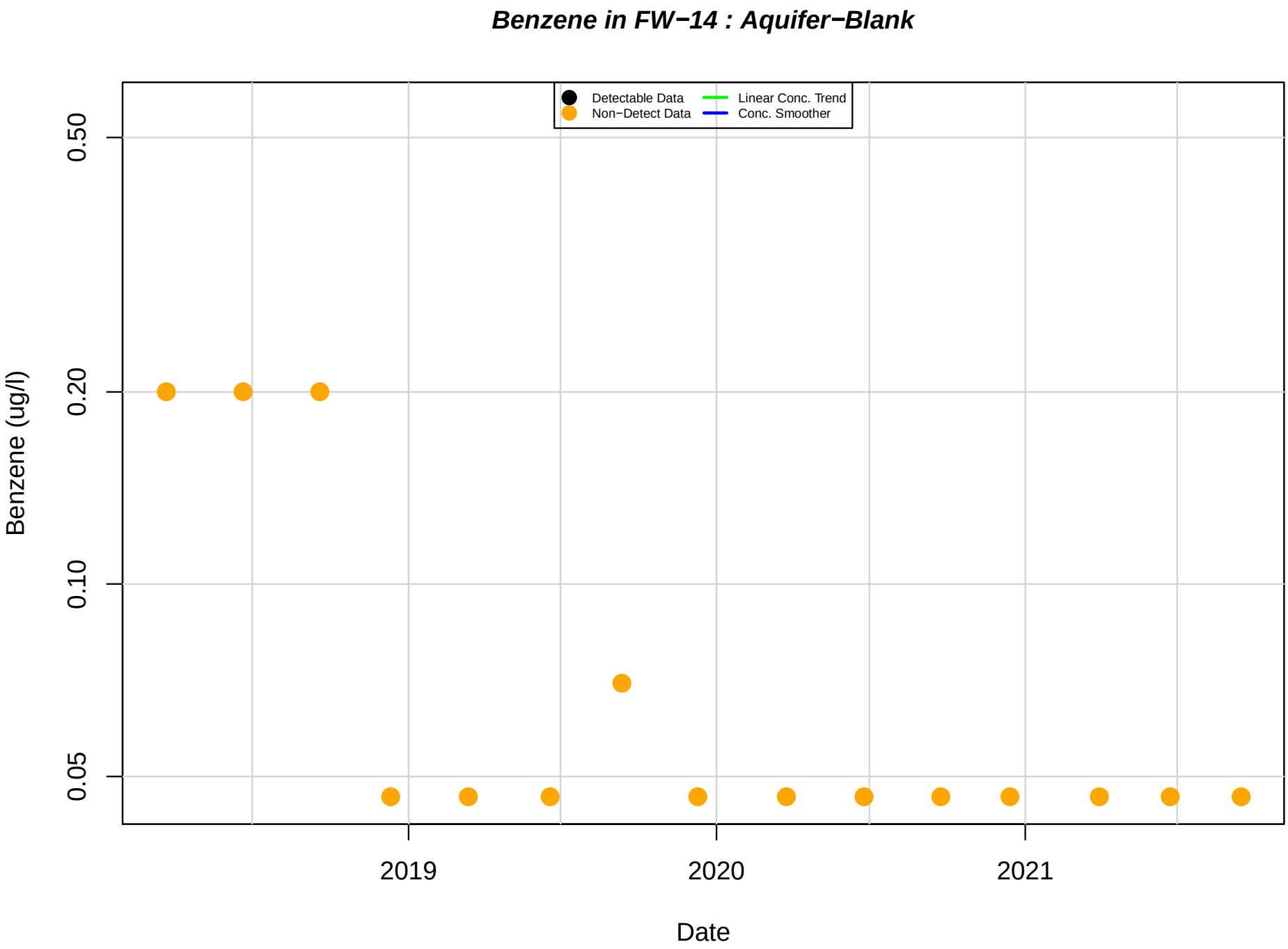

Benzene in T−3 : Aquifer−Blank
Mann−Kendall P.Value= 0.346; Half−Life= 813 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
5e+01
5e+00
5e−01
5e−02
2016
2017
2018
2019
2020
2021
Date

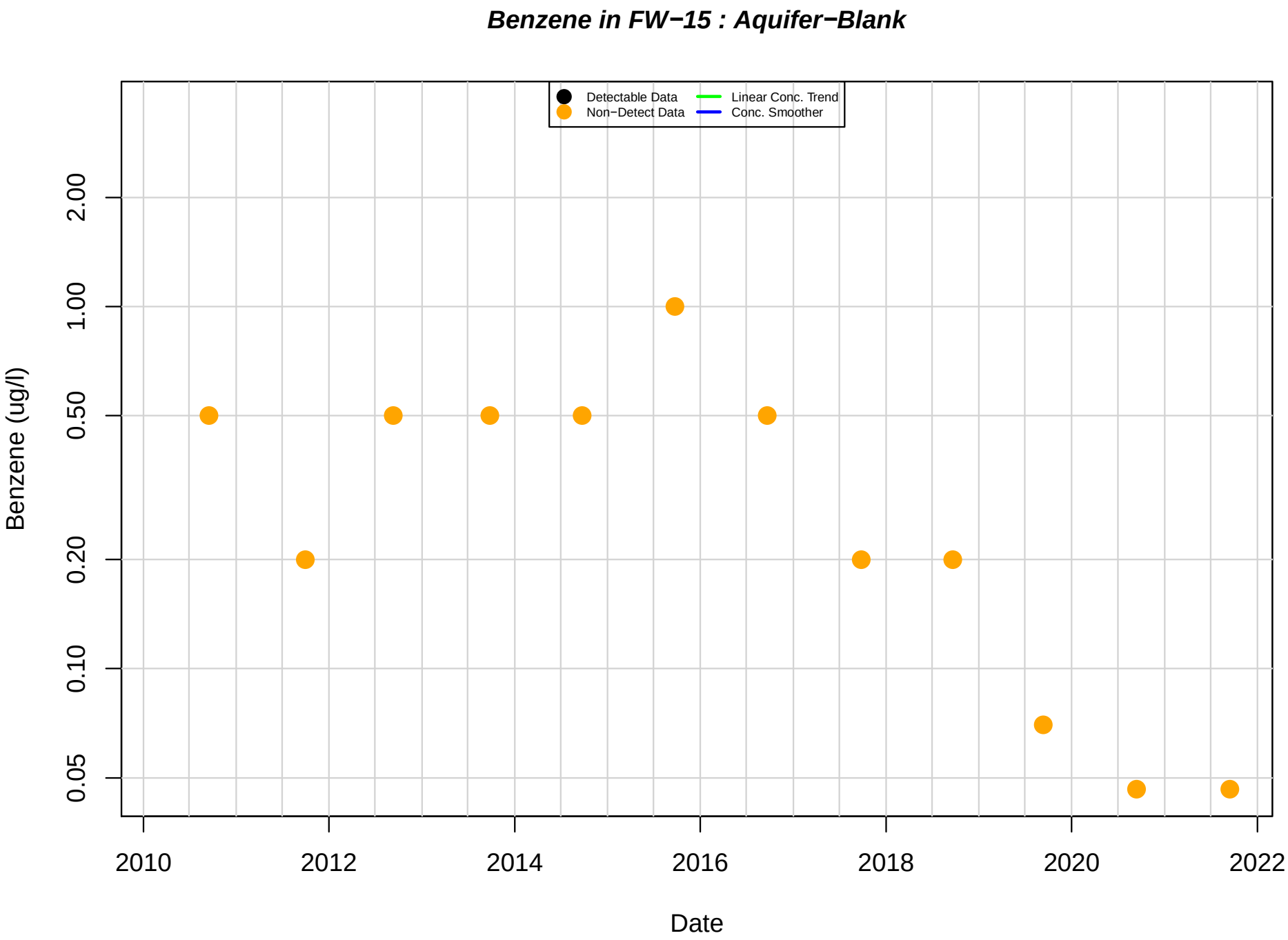

Benzene in E−22 : Aquifer−Blank
Mann−Kendall P.Value= 0.0377; Half−Life= −785 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
5.00
2.00
1.00
0.50
0.20
0.10
0.05
2019
2020
2021
Date

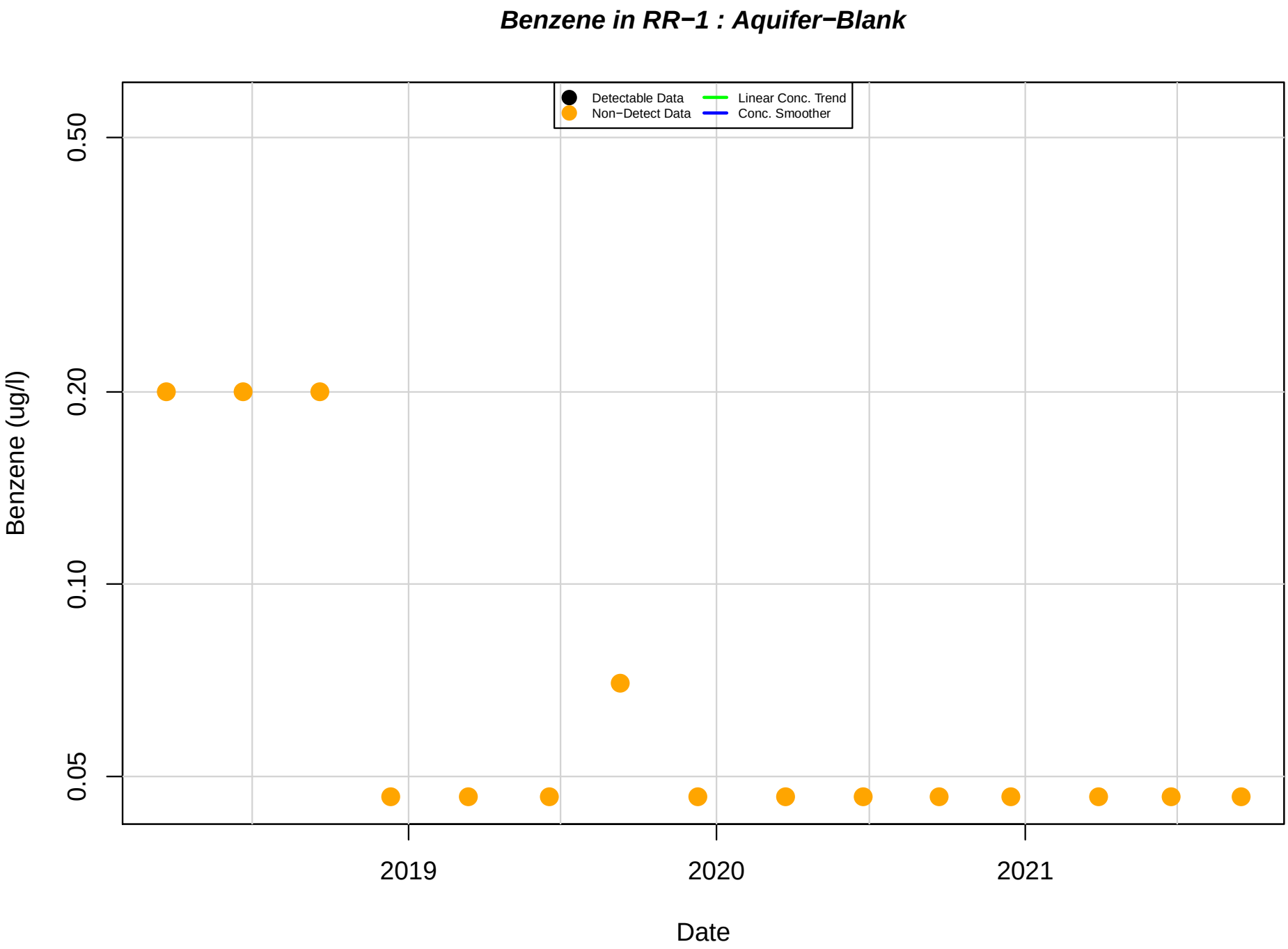

Benzene in FW−3 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

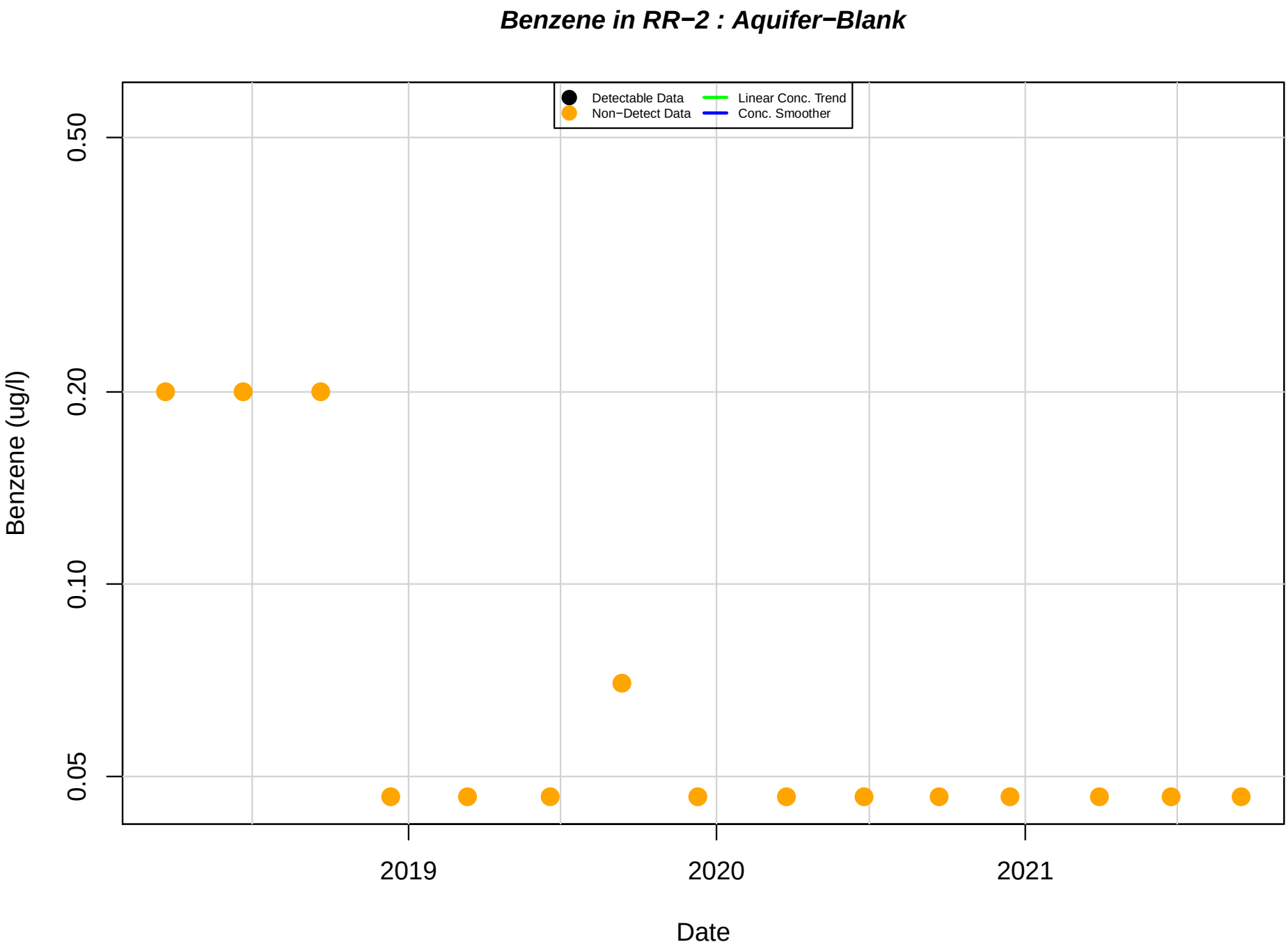

Benzene in FW−4 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

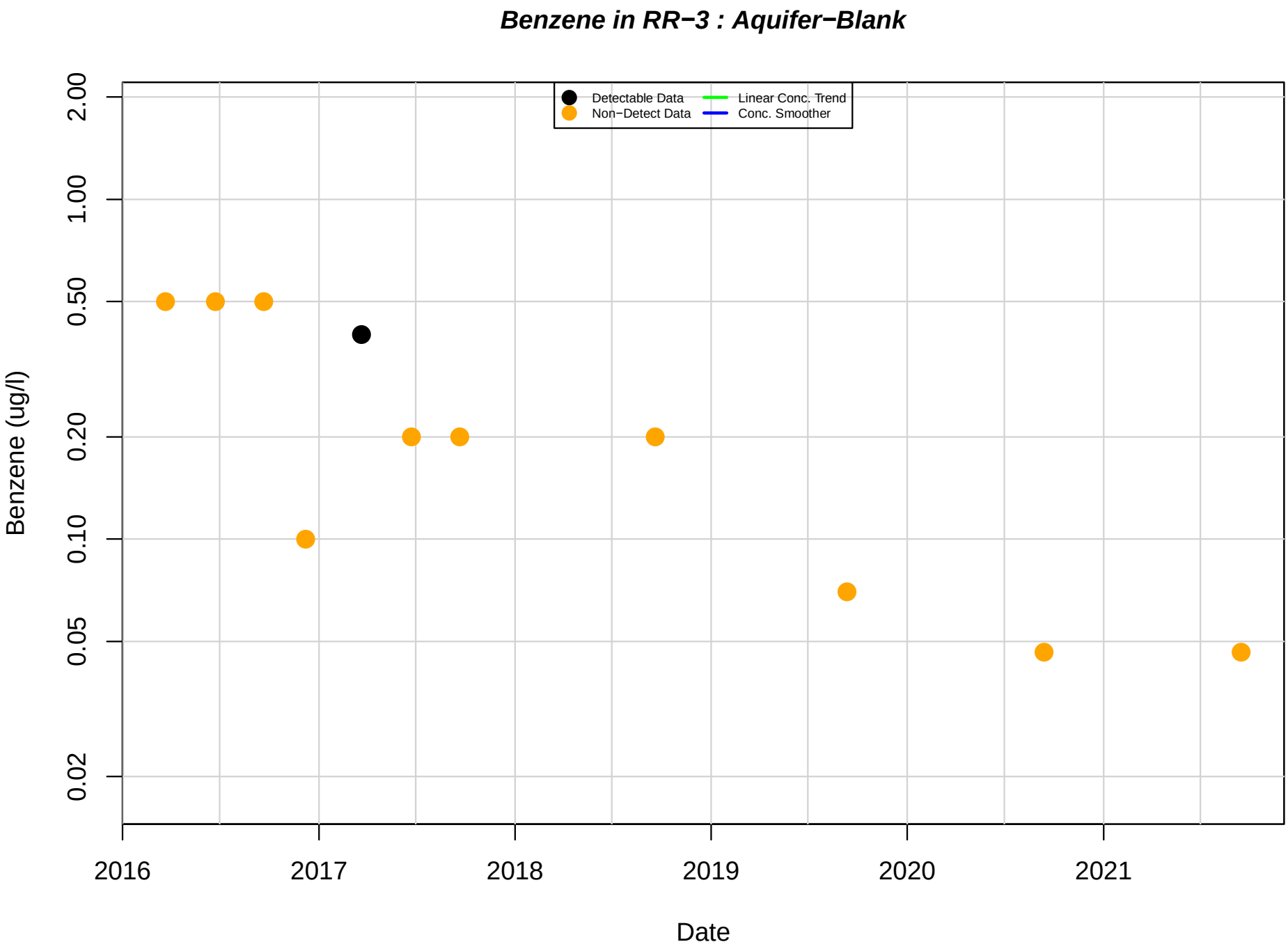

Benzene in FW−5R : Aquifer−Blank
Mann−Kendall P.Value= <0.01; Half−Life= 529 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
5.00
2.00
1.00
0.50
0.20
0.10
0.05
2019
2020
2021
Date

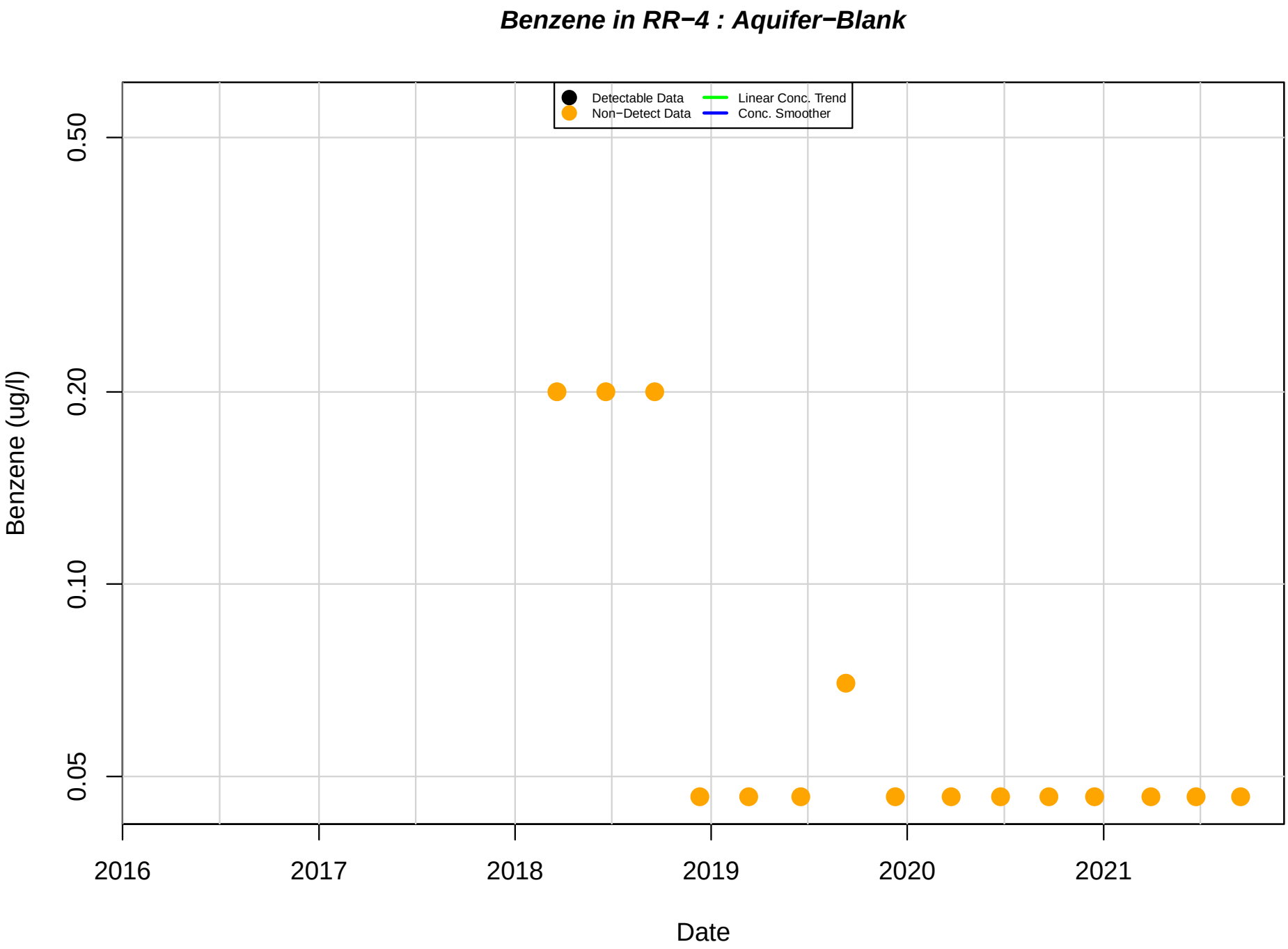

Benzene in FW−14 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.05
0.10
0.20
0.50
2019
2020
2021
Date

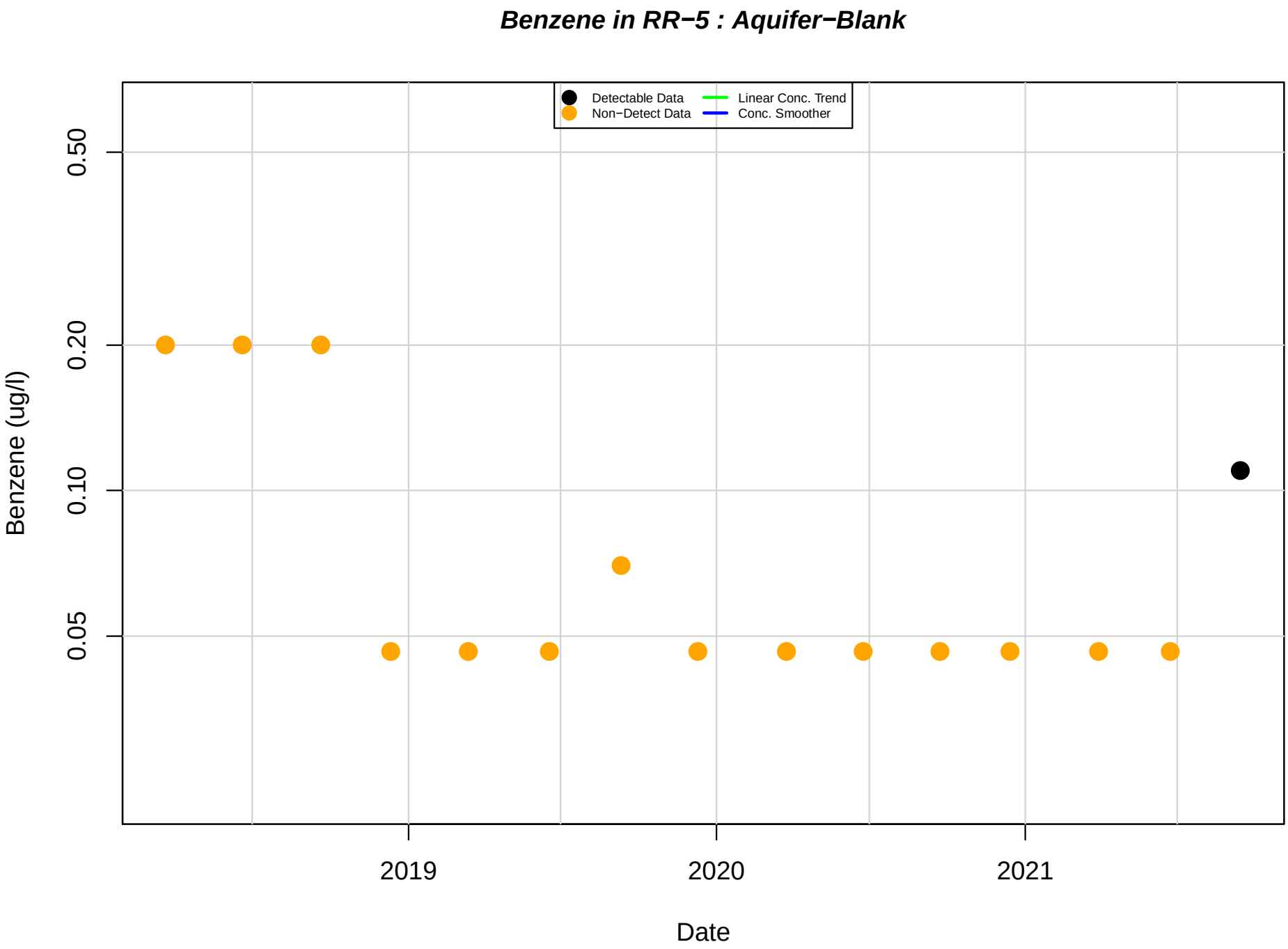

Benzene in FW−15 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

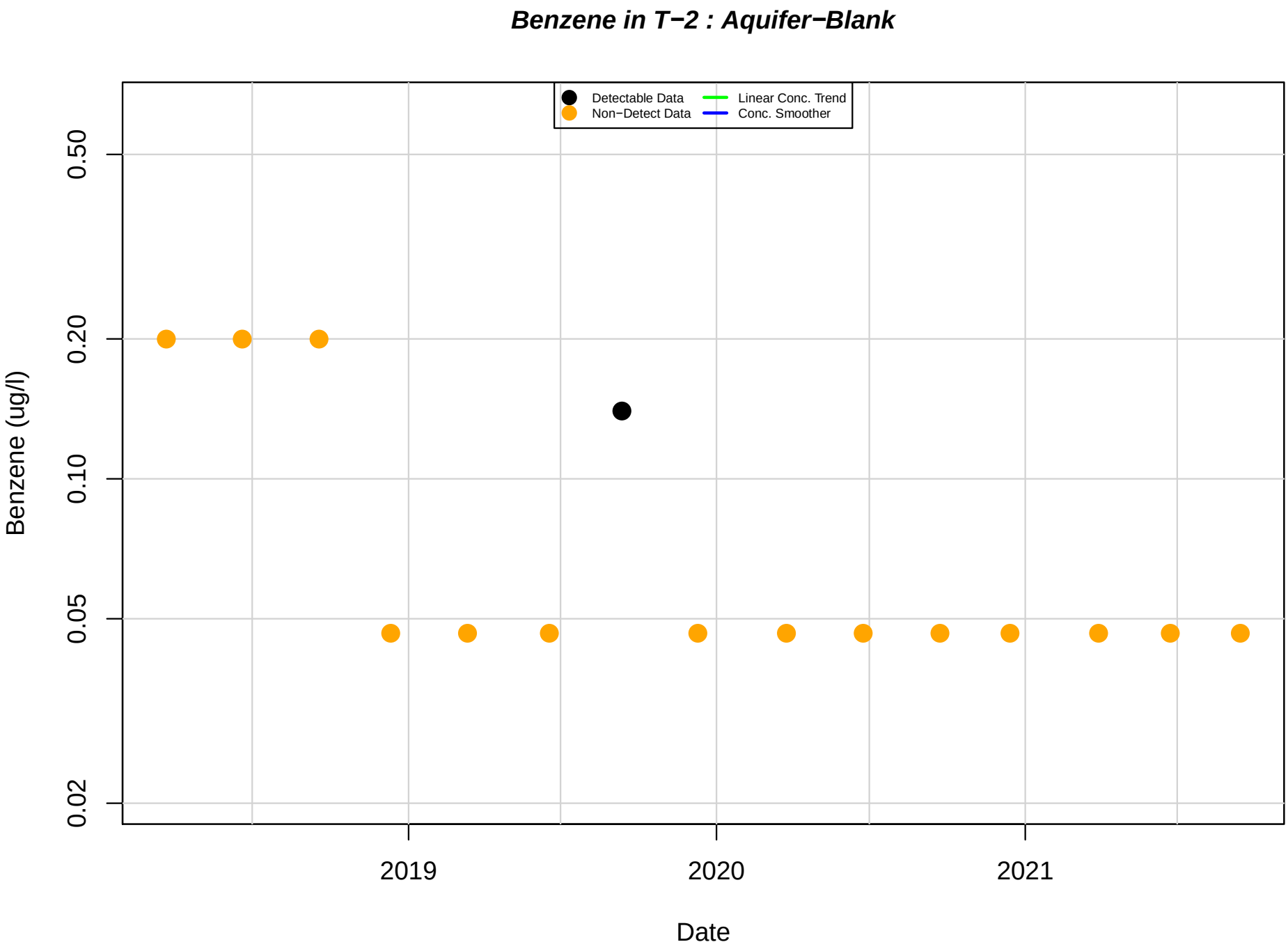

Benzene in RR−1 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.05
0.10
0.20
0.50
2019
2020
2021
Date

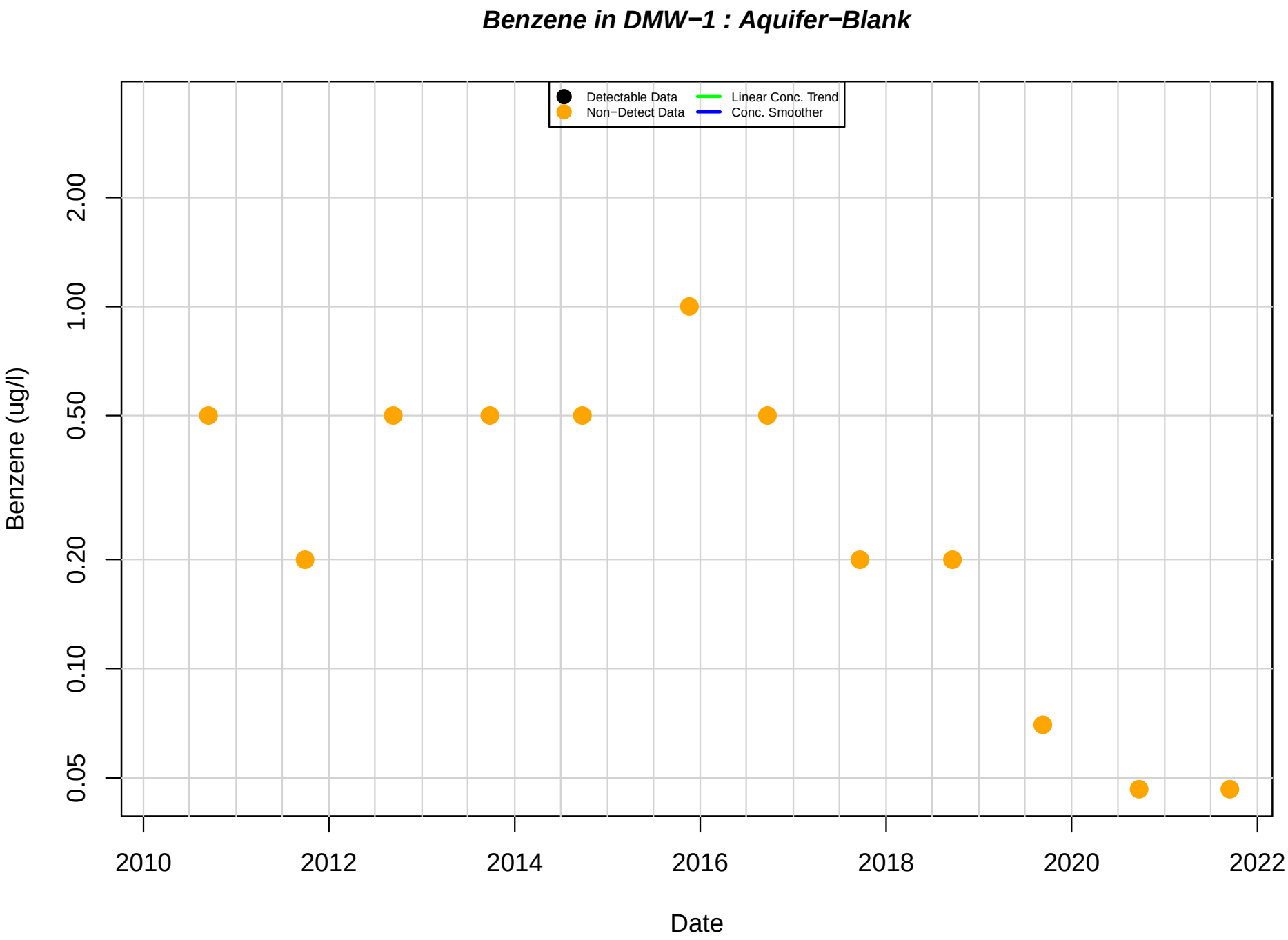

Benzene in RR−2 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
0.50
0.20
0.10
0.05
Benzene (ug/l)
2019
2020
2021
Date

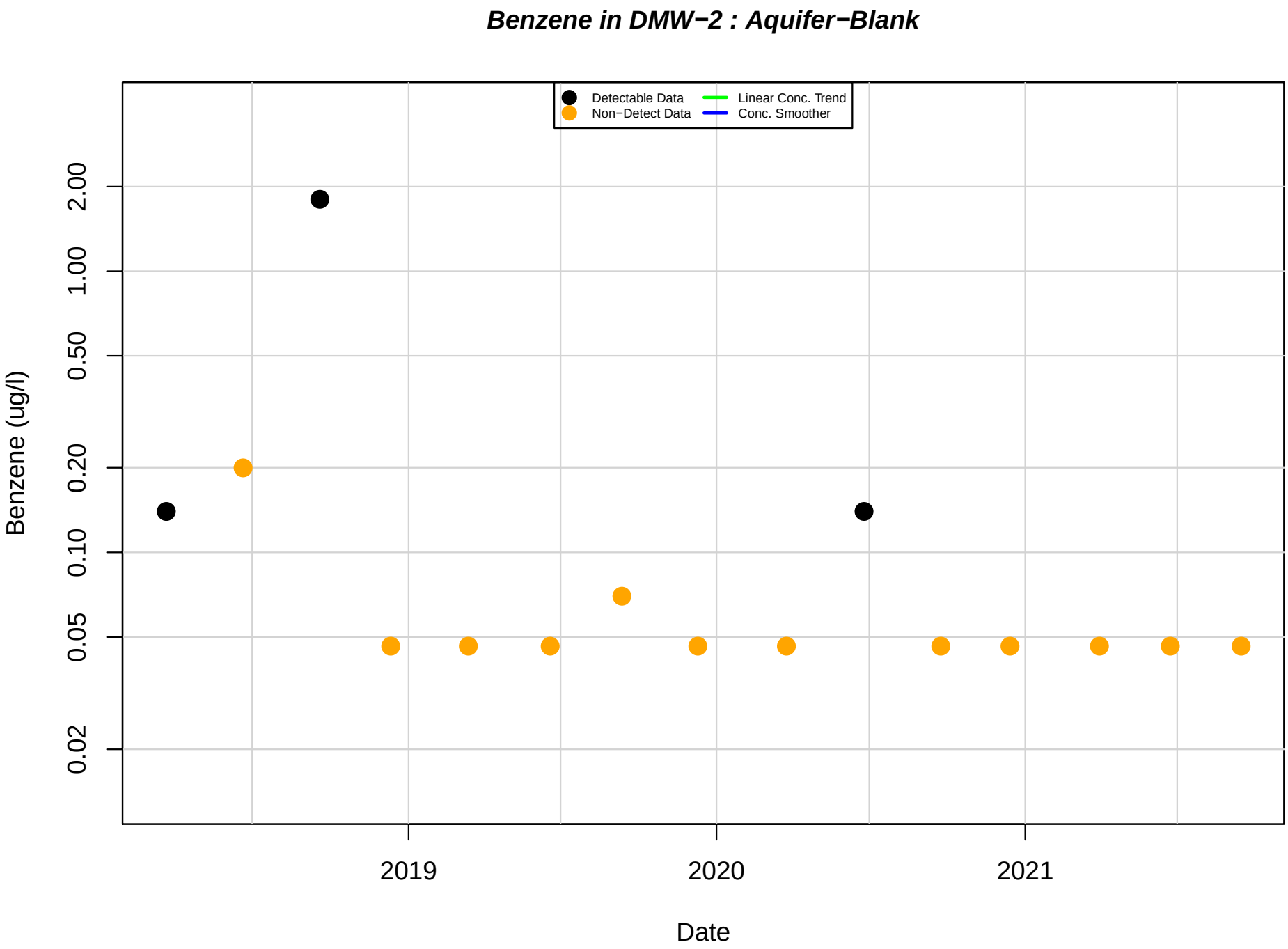

Benzene in RR−3 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
0.02
2016
2017
2018
2019
2020
2021
Date

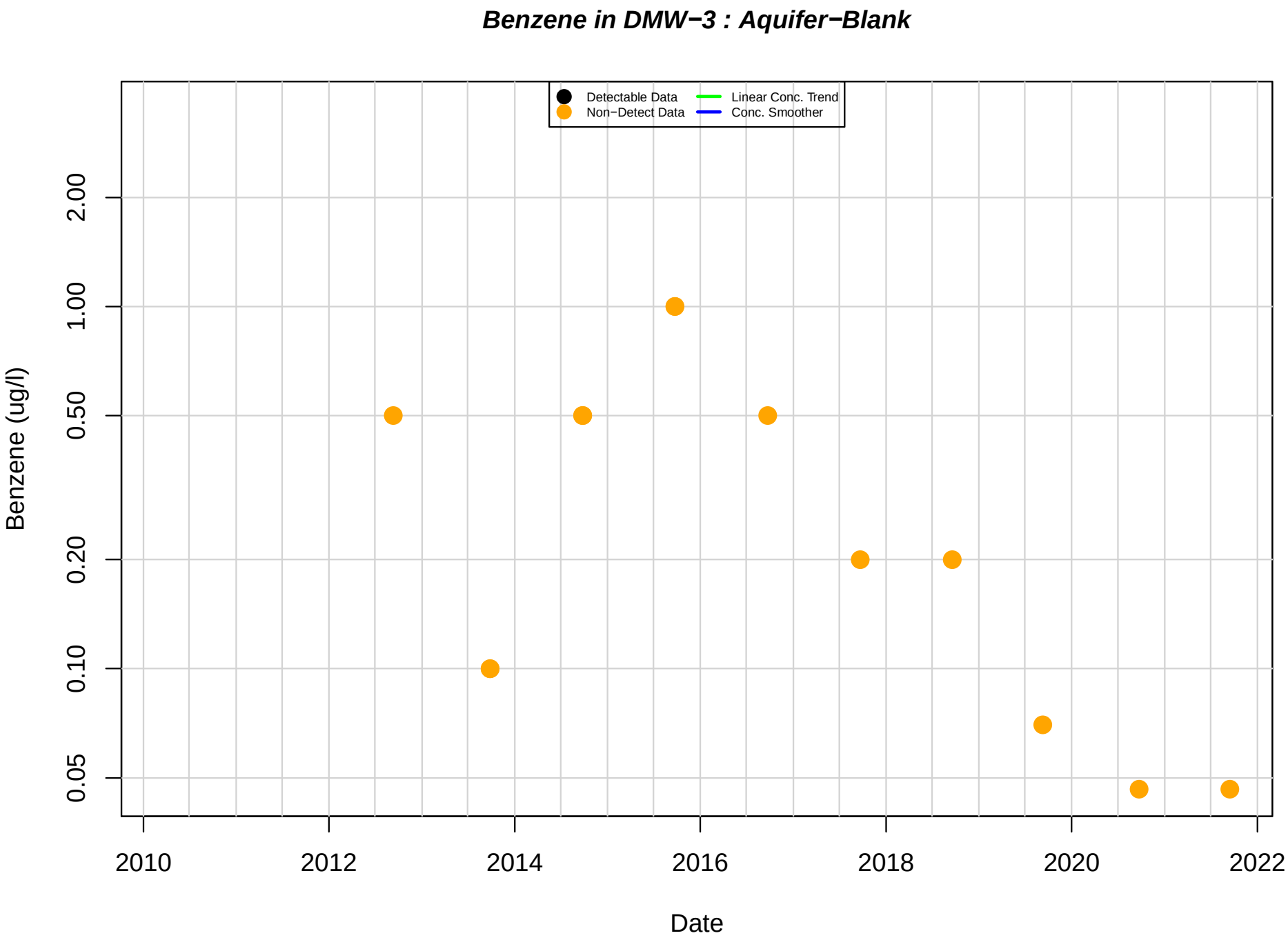

Benzene in RR−4 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.05
0.10
0.20
0.50
2016
2017
2018
2019
2020
2021
Date

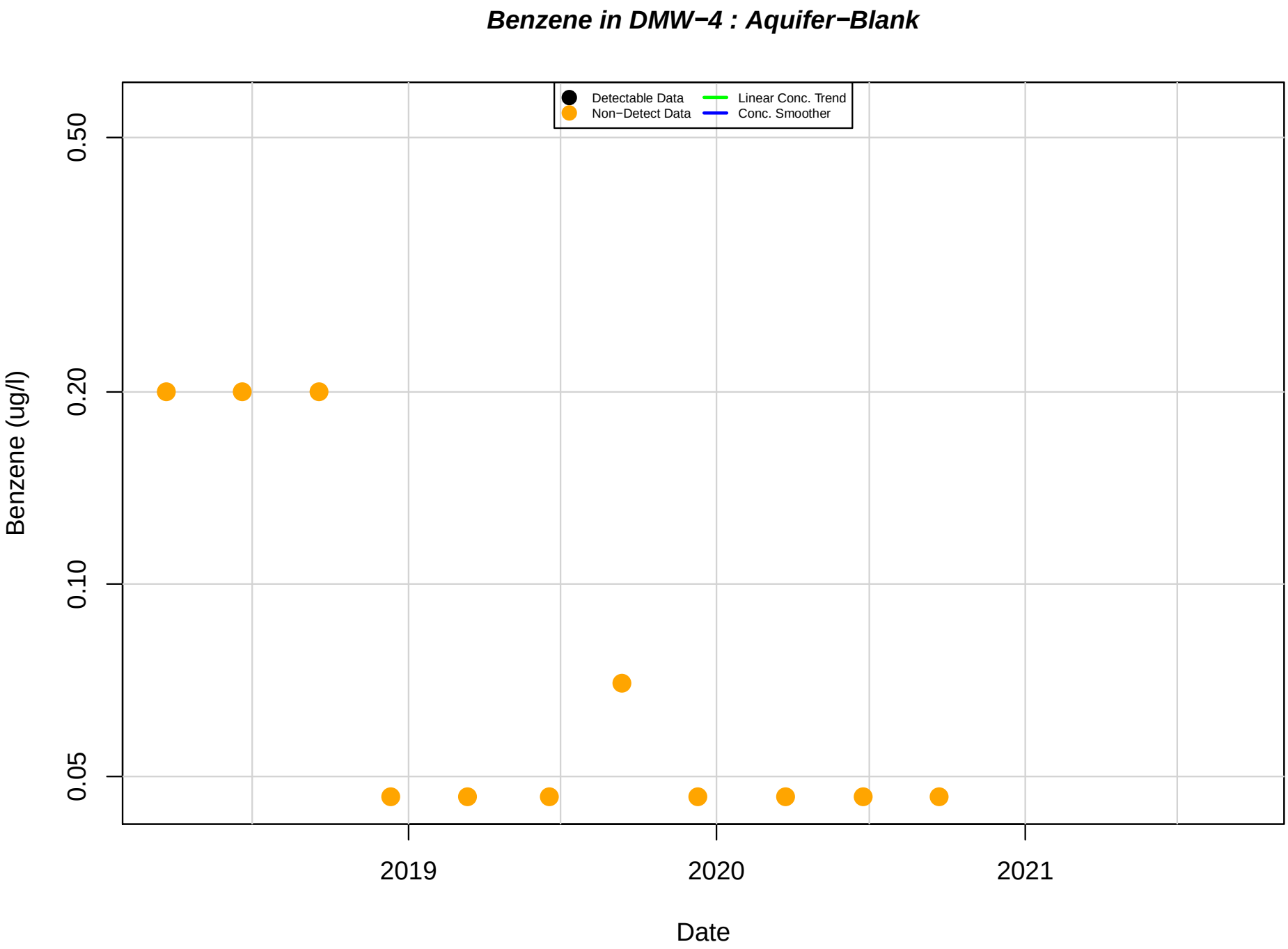

Benzene in RR−5 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.05
0.10
0.20
0.50
2019
2020
2021
Date

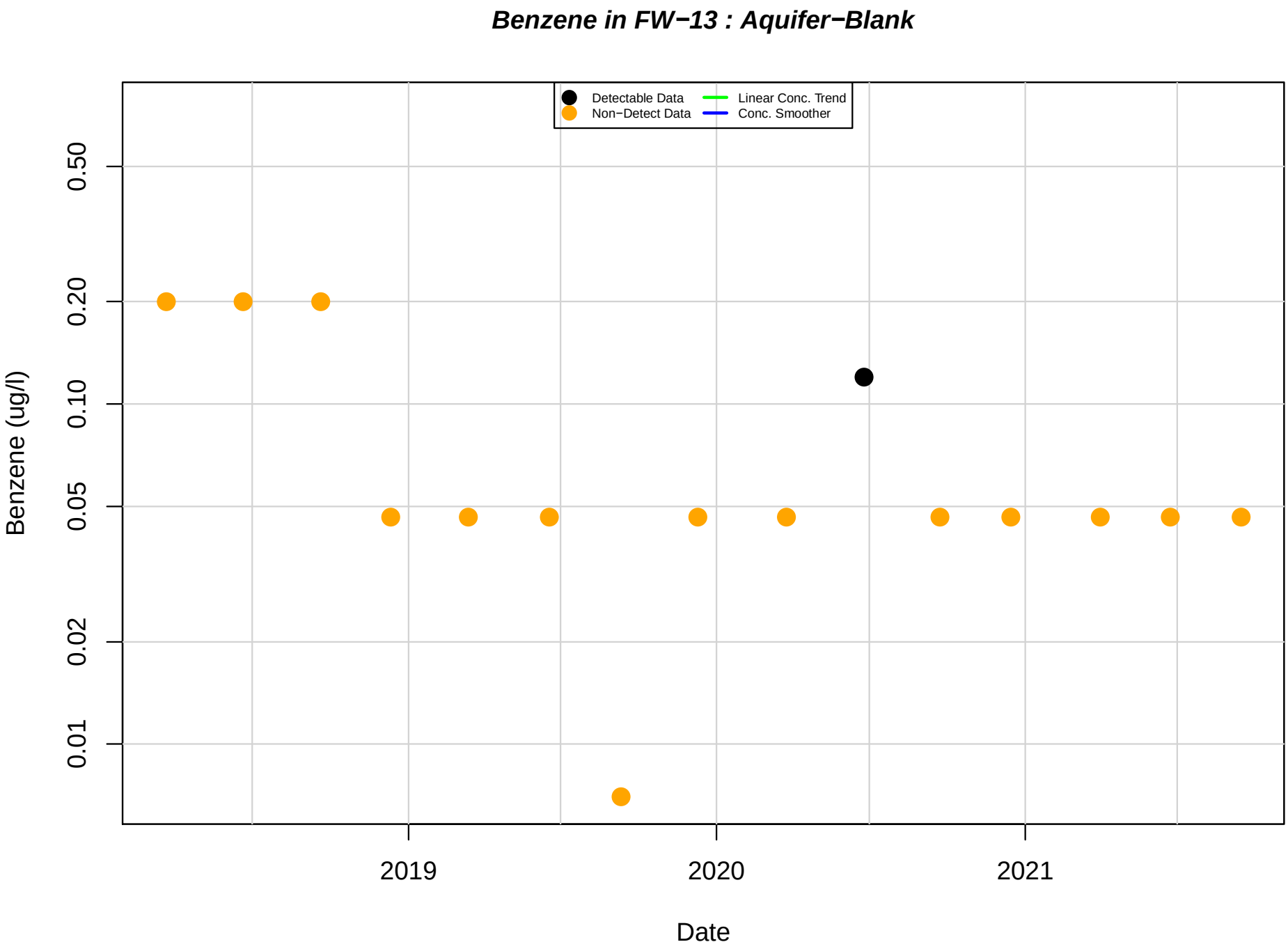

Benzene in T−2 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.02
0.05
0.10
0.20
0.50
2019
2020
2021
Date

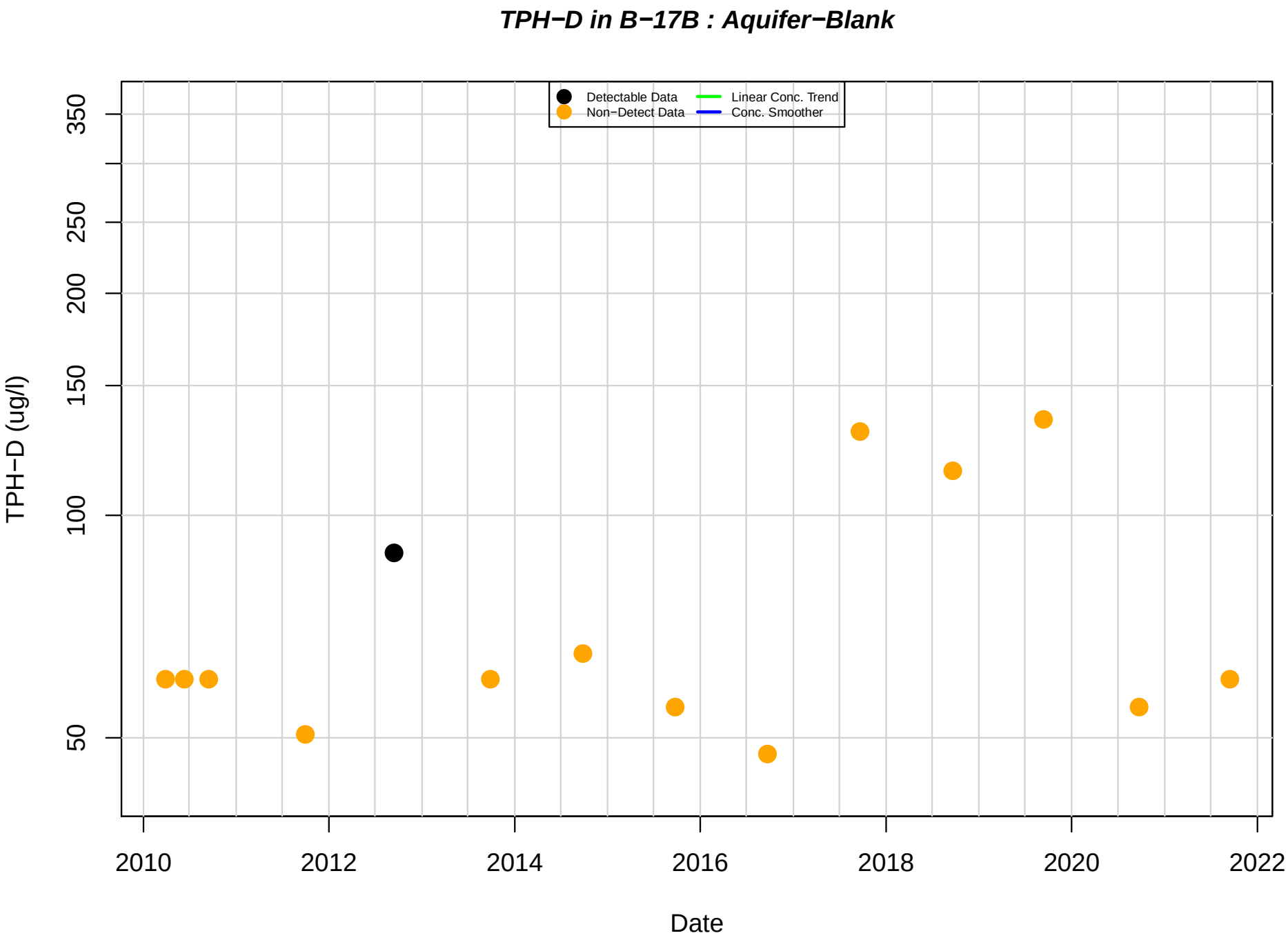

Benzene in DMW−1 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

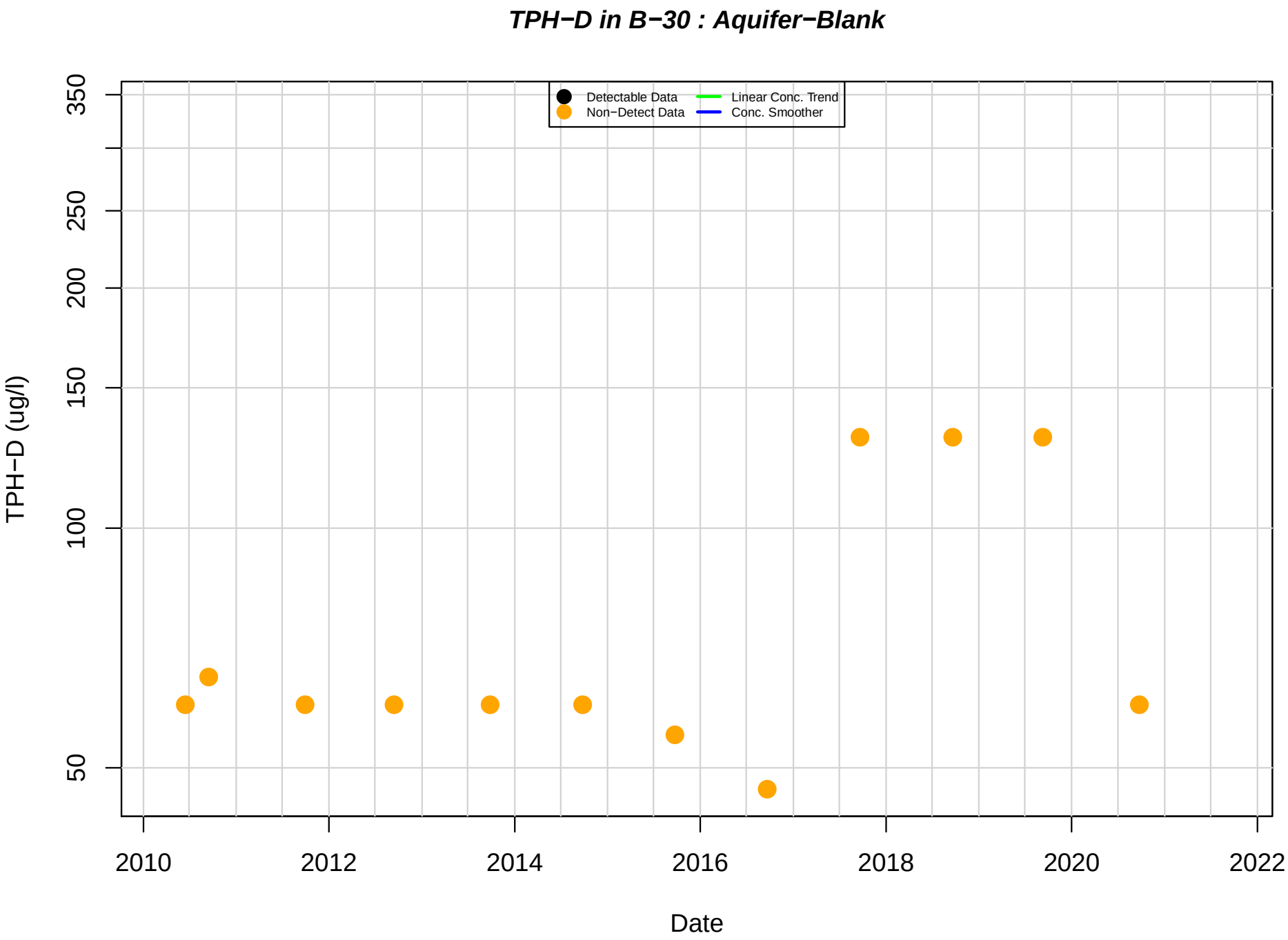

Benzene in DMW−2 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
0.02
2019
2020
2021
Date

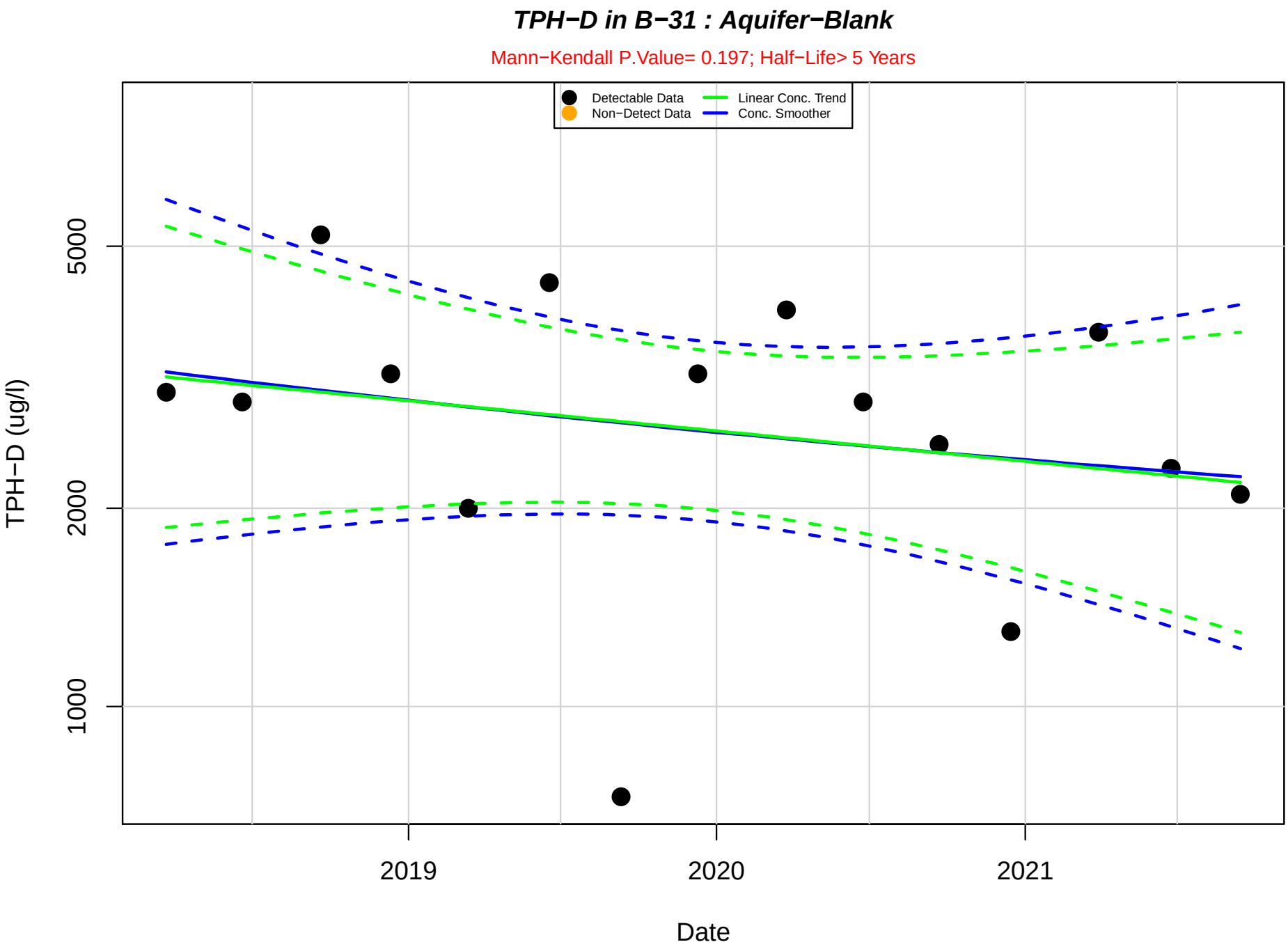

Benzene in DMW−3 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
2.00
1.00
0.50
0.20
0.10
0.05
2010
2012
2014
2016
2018
2020
2022
Date

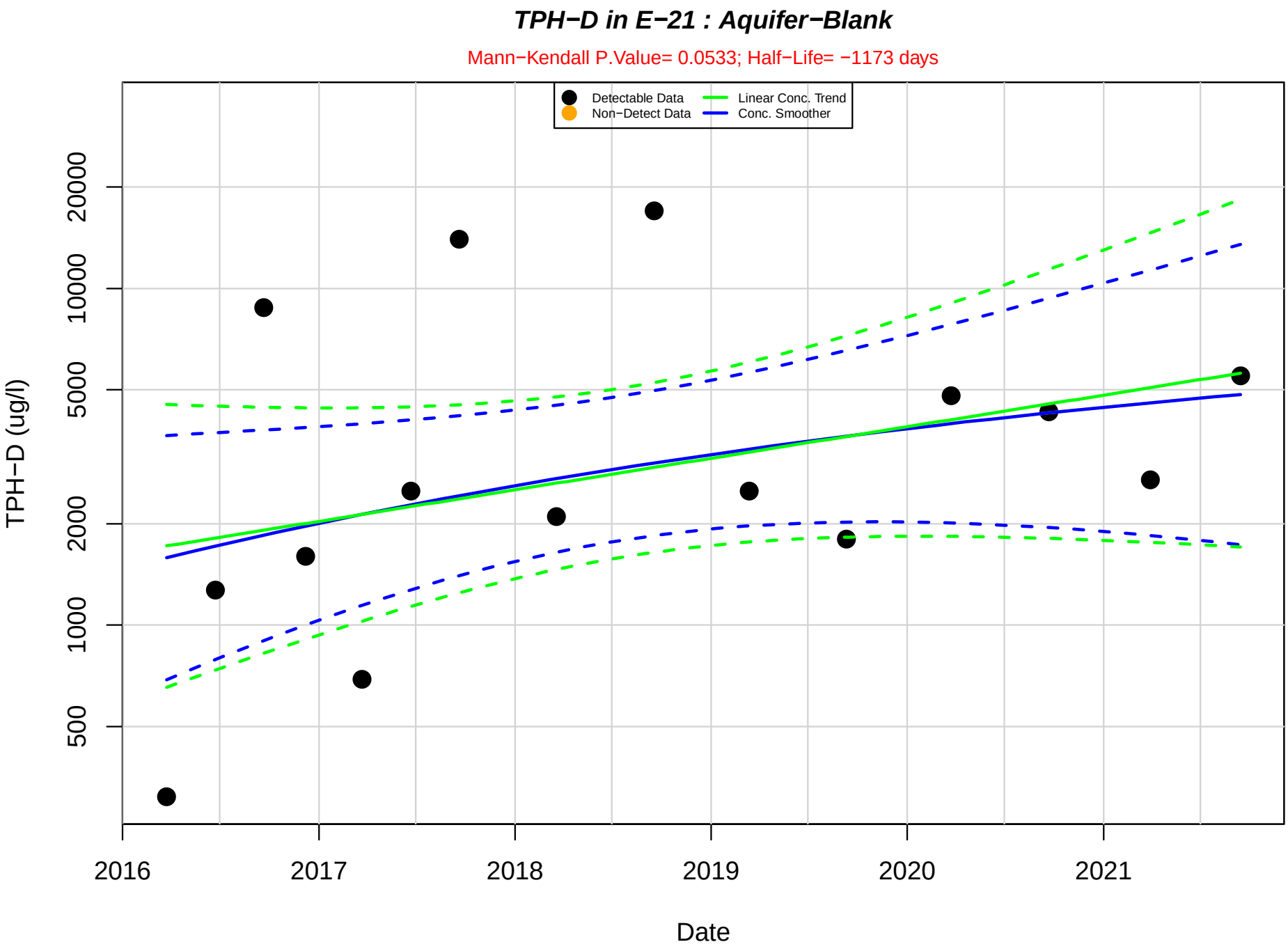

Benzene in DMW−4 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.05
0.10
0.20
0.50
2019
2020
2021
Date

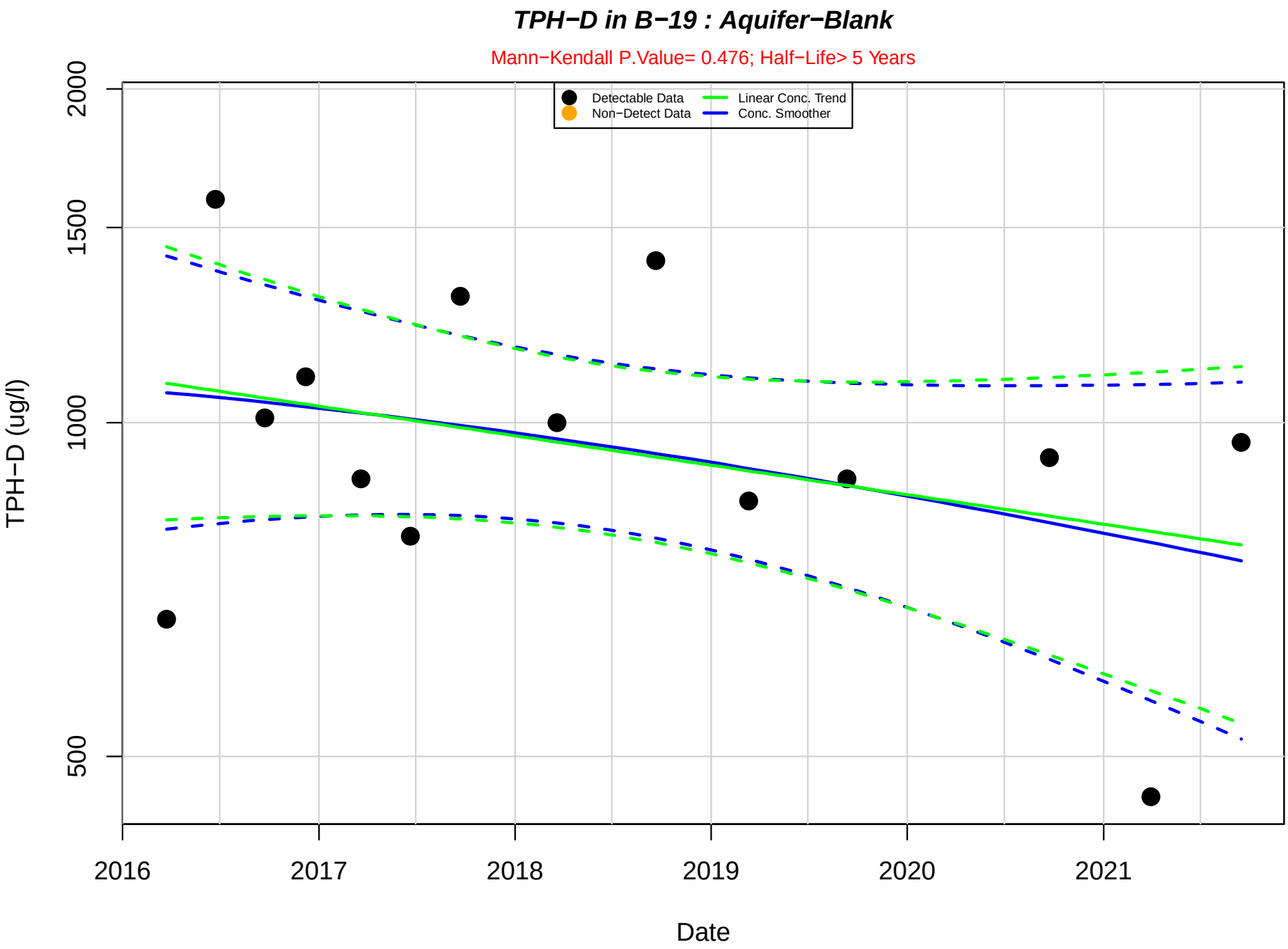

Benzene in FW−13 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
Benzene (ug/l)
0.01
0.02
0.05
0.10
0.20
0.50
2019
2020
2021
Date

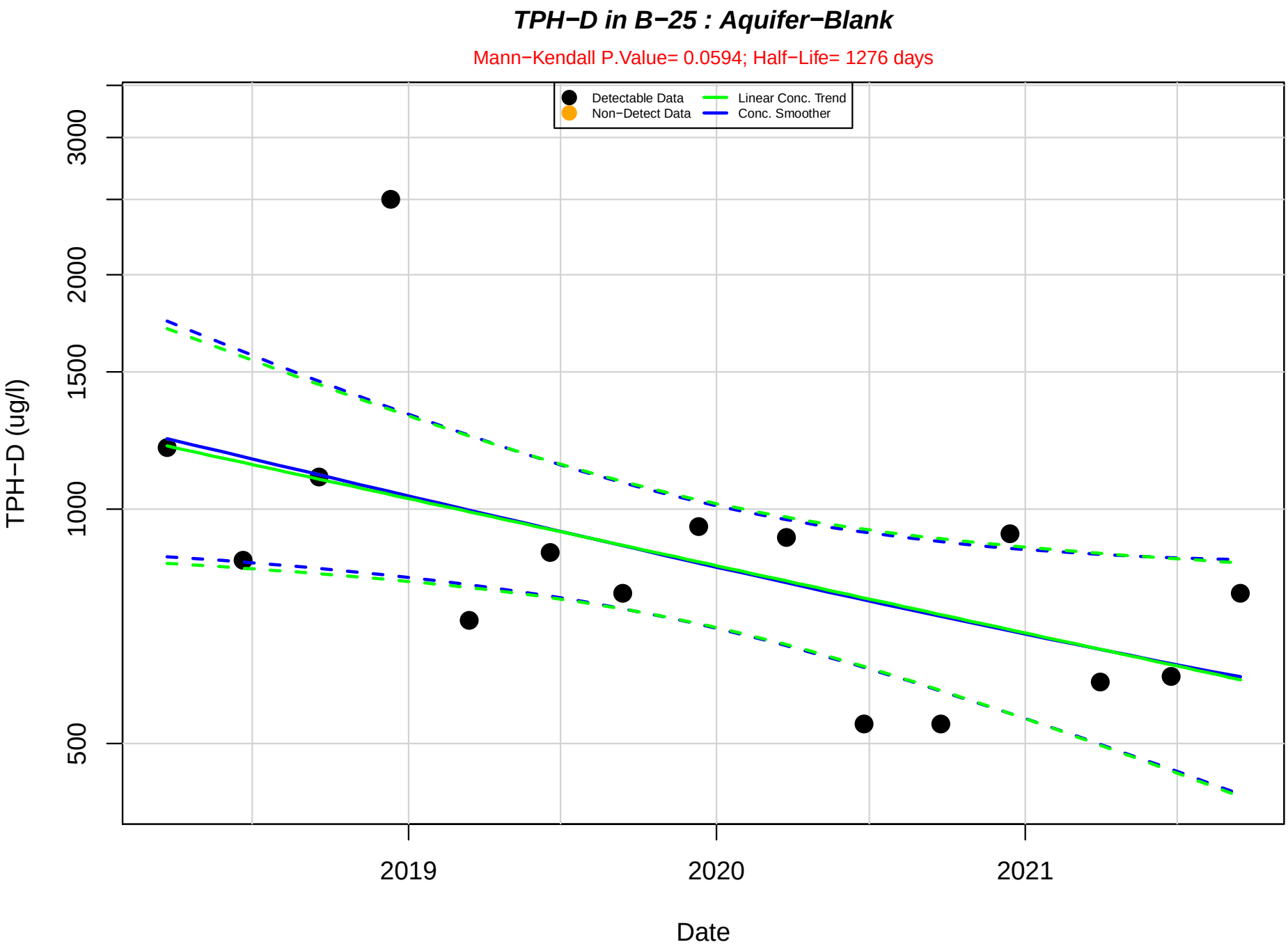

TPH−D in B−17B : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
350
250
200
150
100
50
2010
2012
2014
2016
2018
2020
2022
Date

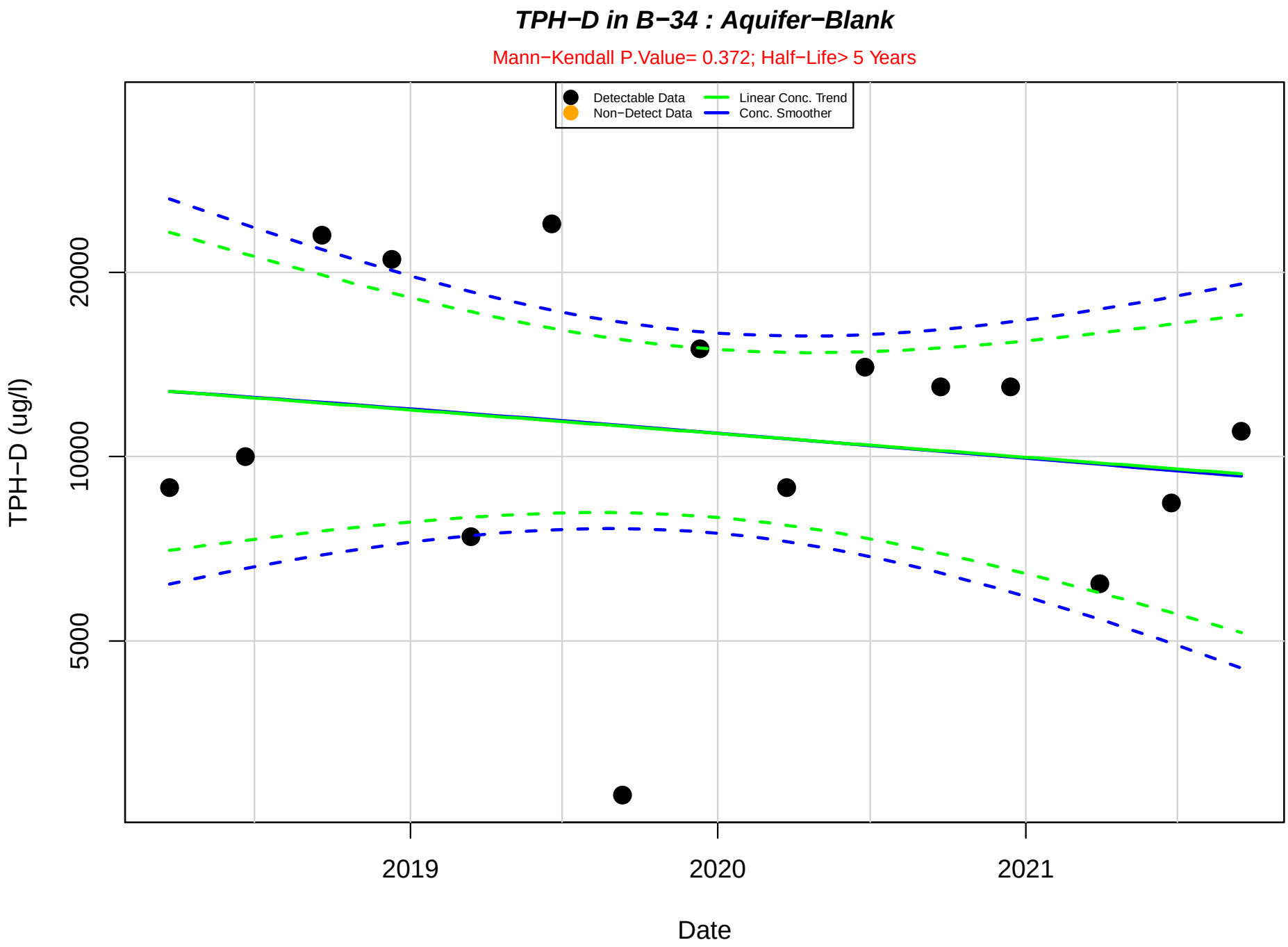

TPH−D in B−30 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
350
250
200
150
100
50
2010
2012
2014
2016
2018
2020
2022
Date

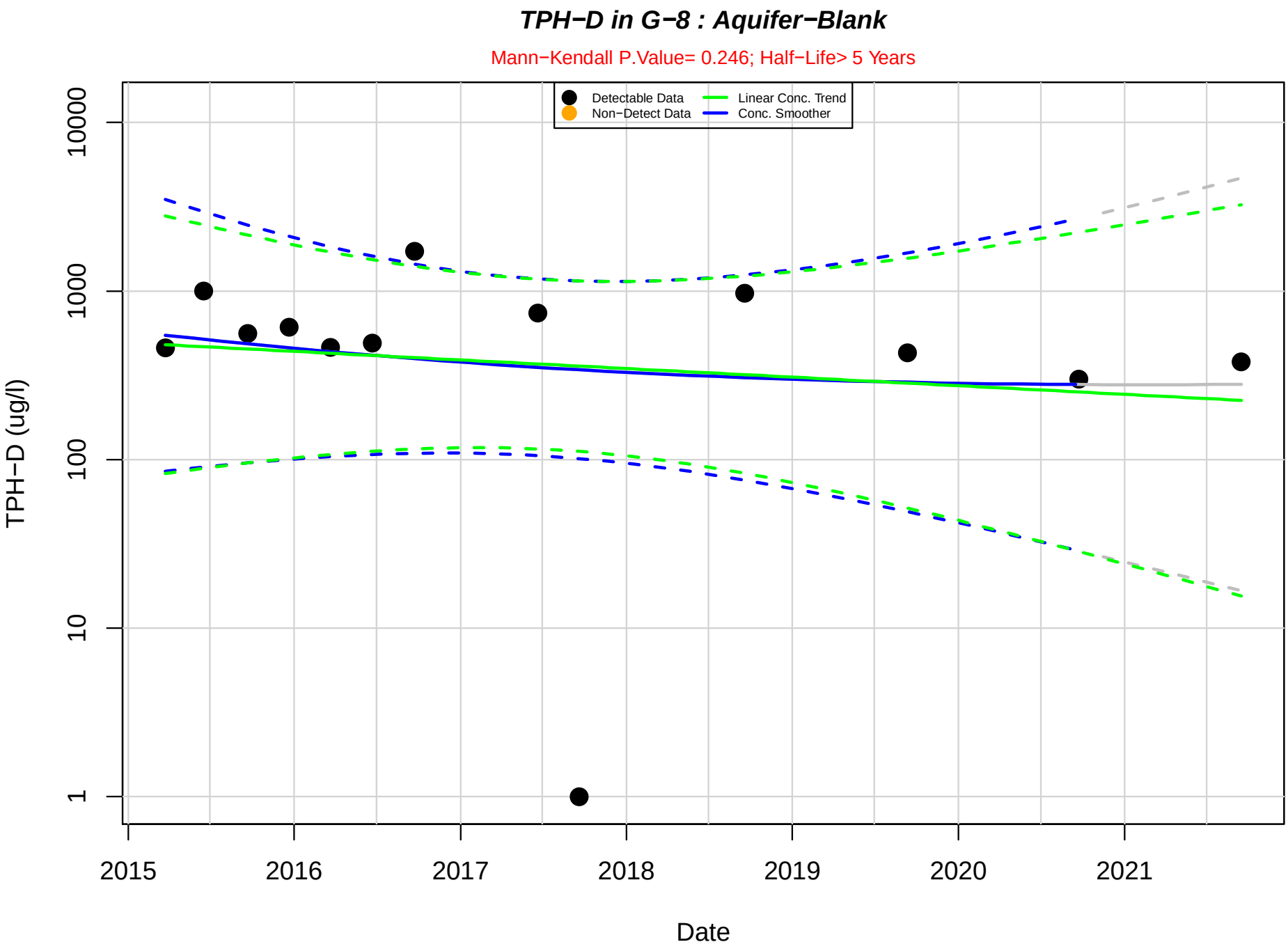

TPH−D in B−31 : Aquifer−Blank
Mann−Kendall P.Value= 0.197; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
5000
2000
1000
2019
2020
2021
Date

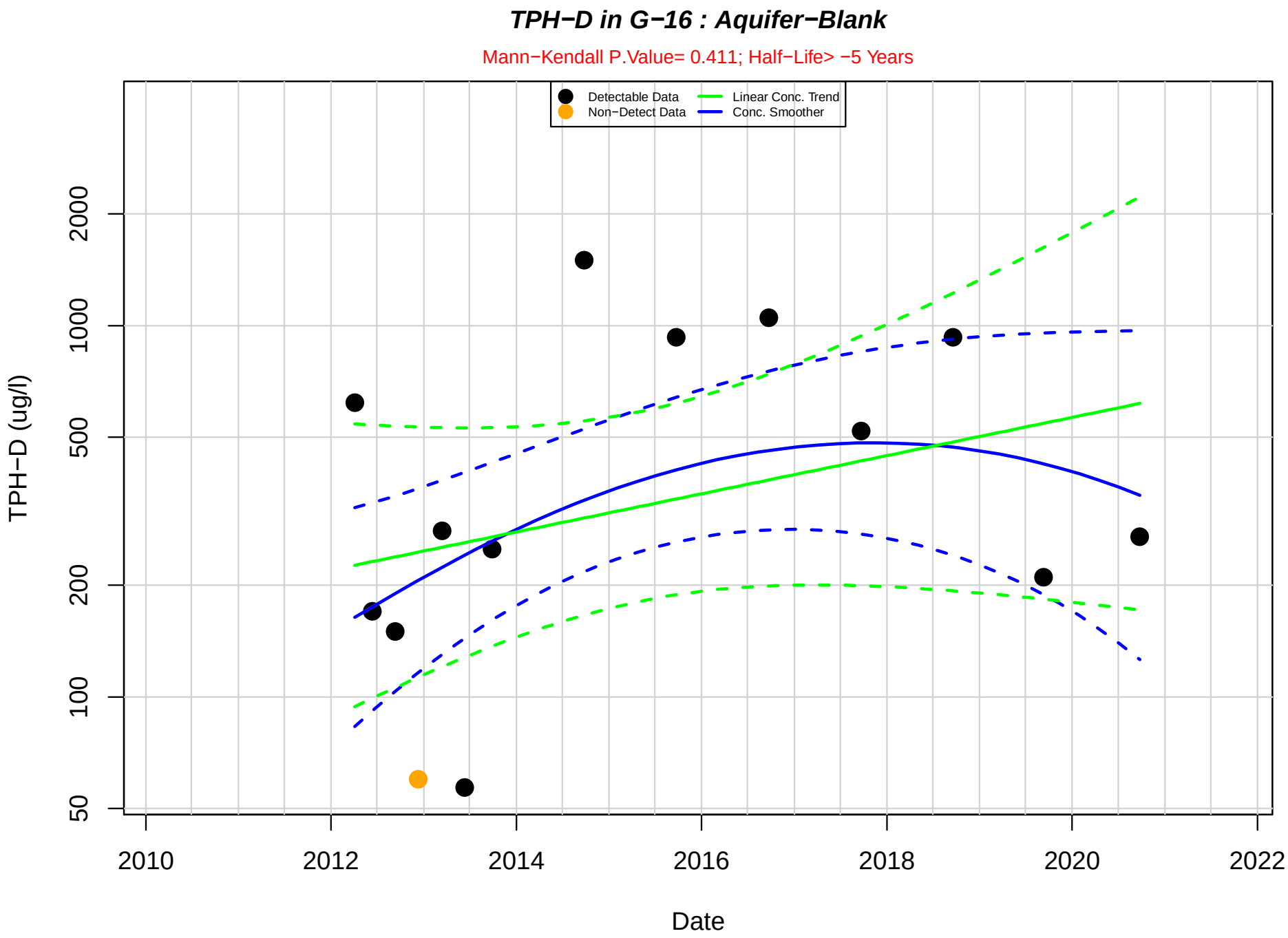

TPH−D in E−21 : Aquifer−Blank
Mann−Kendall P.Value= 0.0533; Half−Life= −1173 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
500
1000
2000
5000
10000
20000
2016
2017
2018
2019
2020
2021
Date

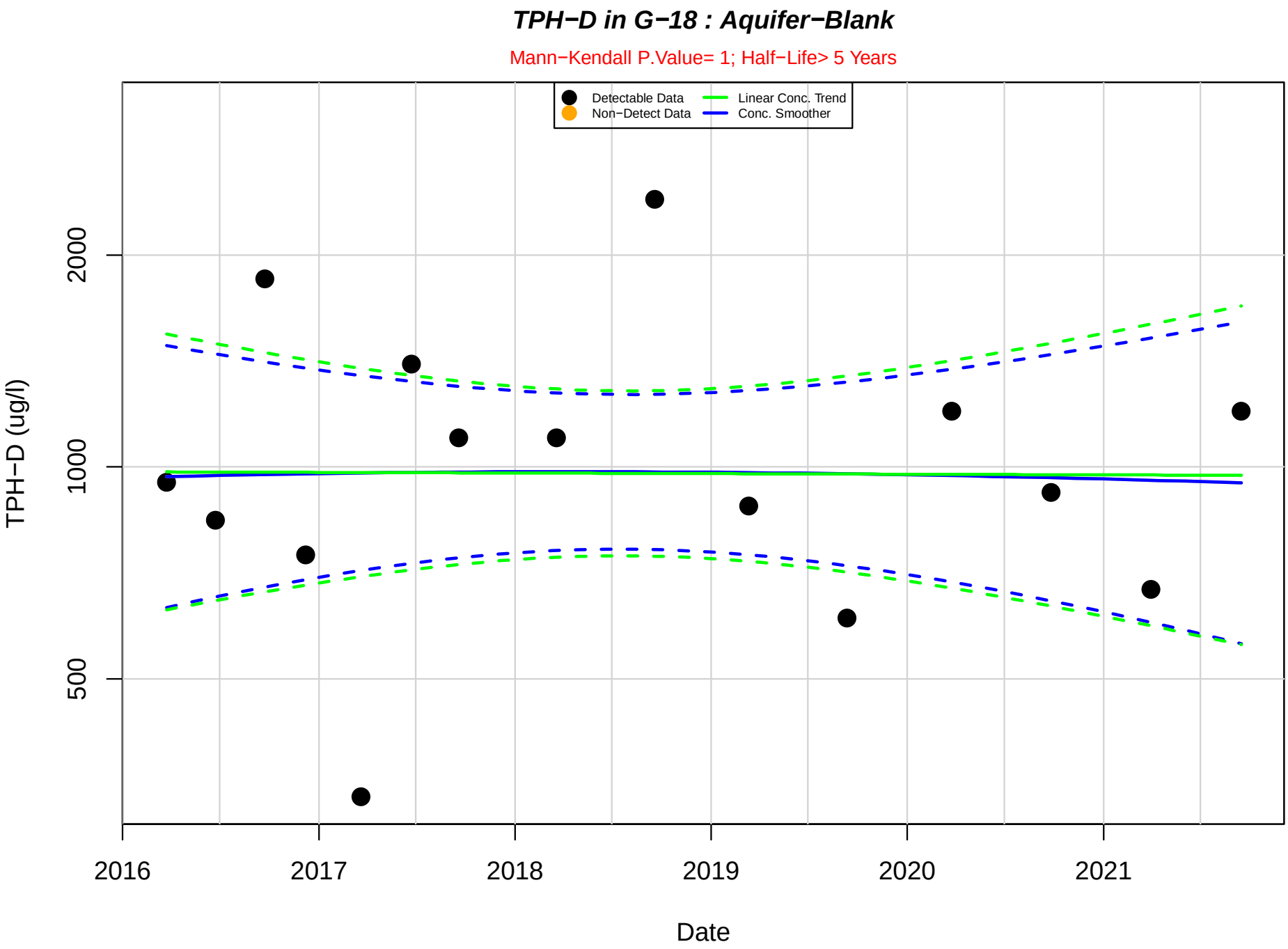

TPH−D in B−19 : Aquifer−Blank
Mann−Kendall P.Value= 0.476; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
2000
1500
1000
500
2016
2017
2018
2019
2020
2021
Date

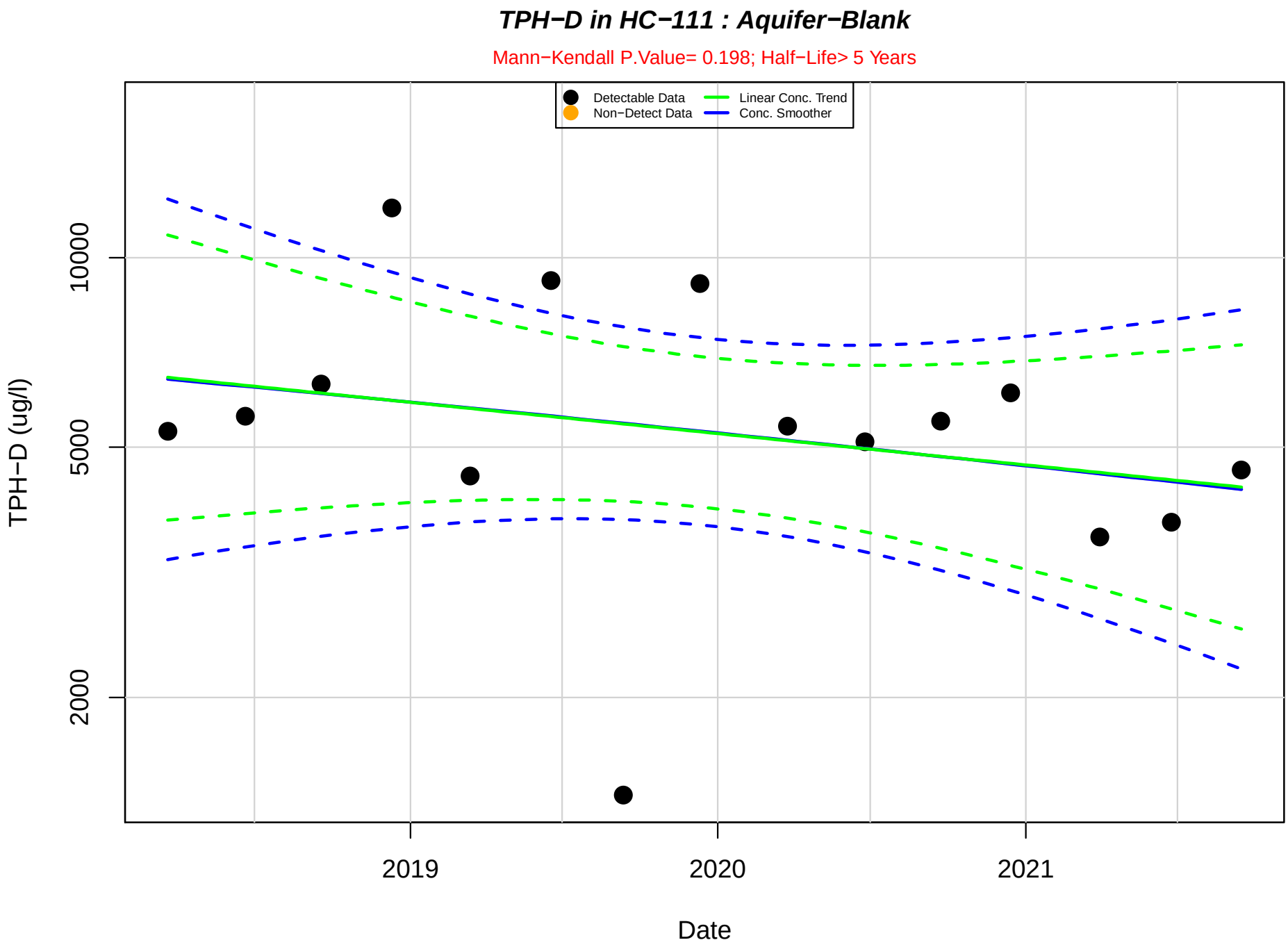

TPH−D in B−25 : Aquifer−Blank
Mann−Kendall P.Value= 0.0594; Half−Life= 1276 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
3000
2000
1500
1000
500
2019
2020
2021
Date

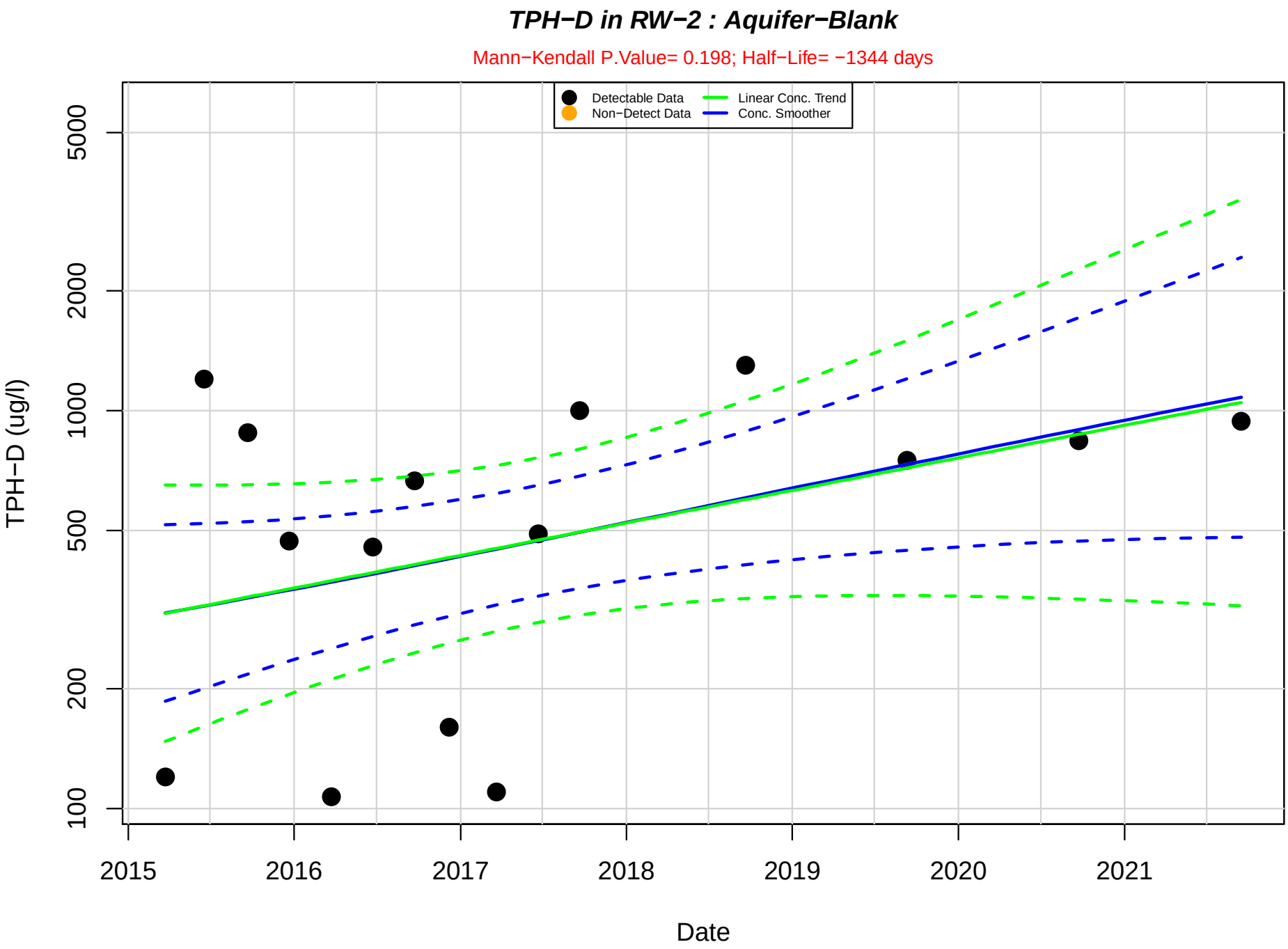

TPH−D in B−34 : Aquifer−Blank
Mann−Kendall P.Value= 0.372; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
20000
10000
5000
2019
2020
2021
Date

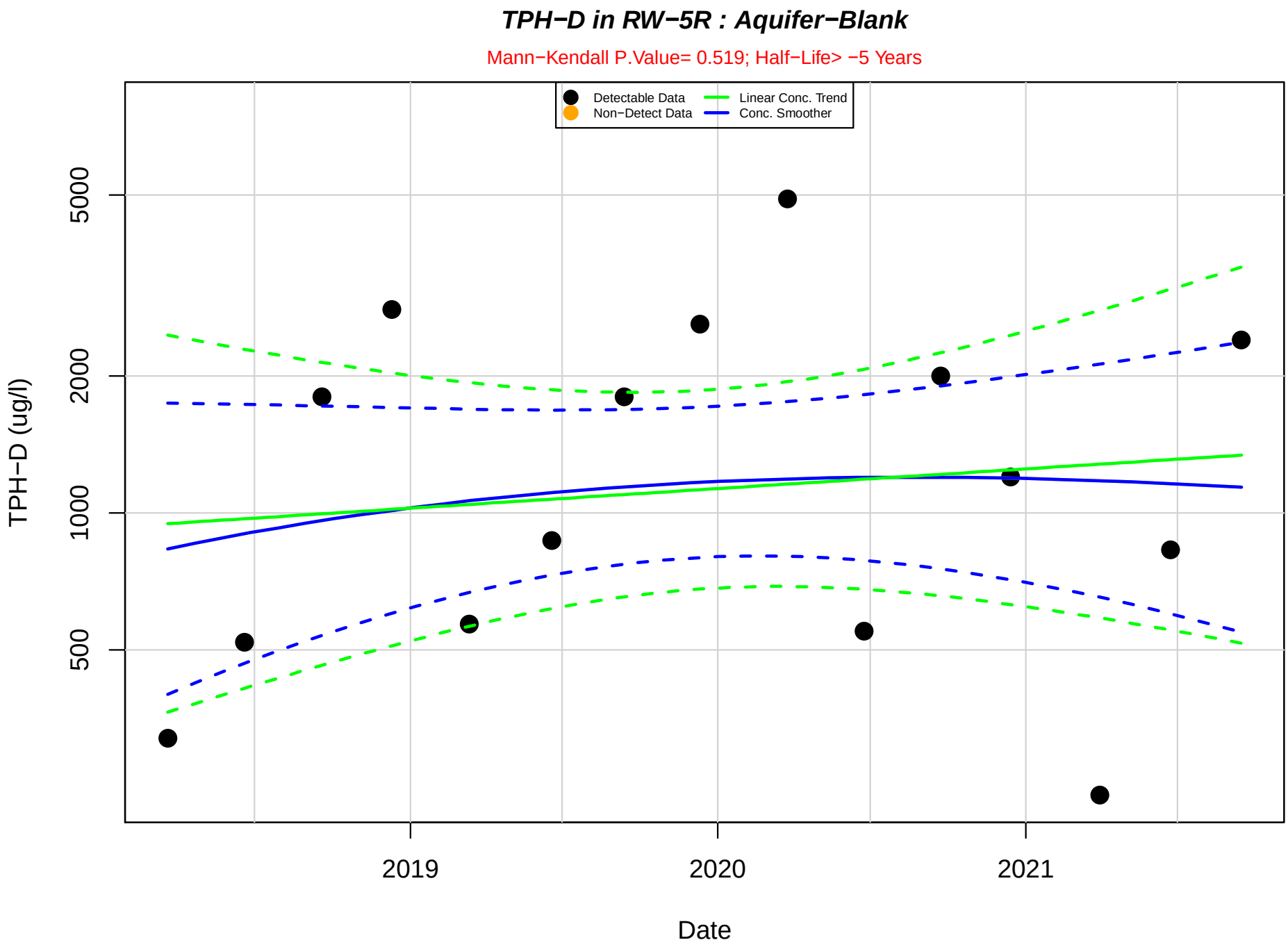

TPH−D in G−8 : Aquifer−Blank
Mann−Kendall P.Value= 0.246; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
10000
1000
100
10
1
2015
2016
2017
2018
2019
2020
2021
Date

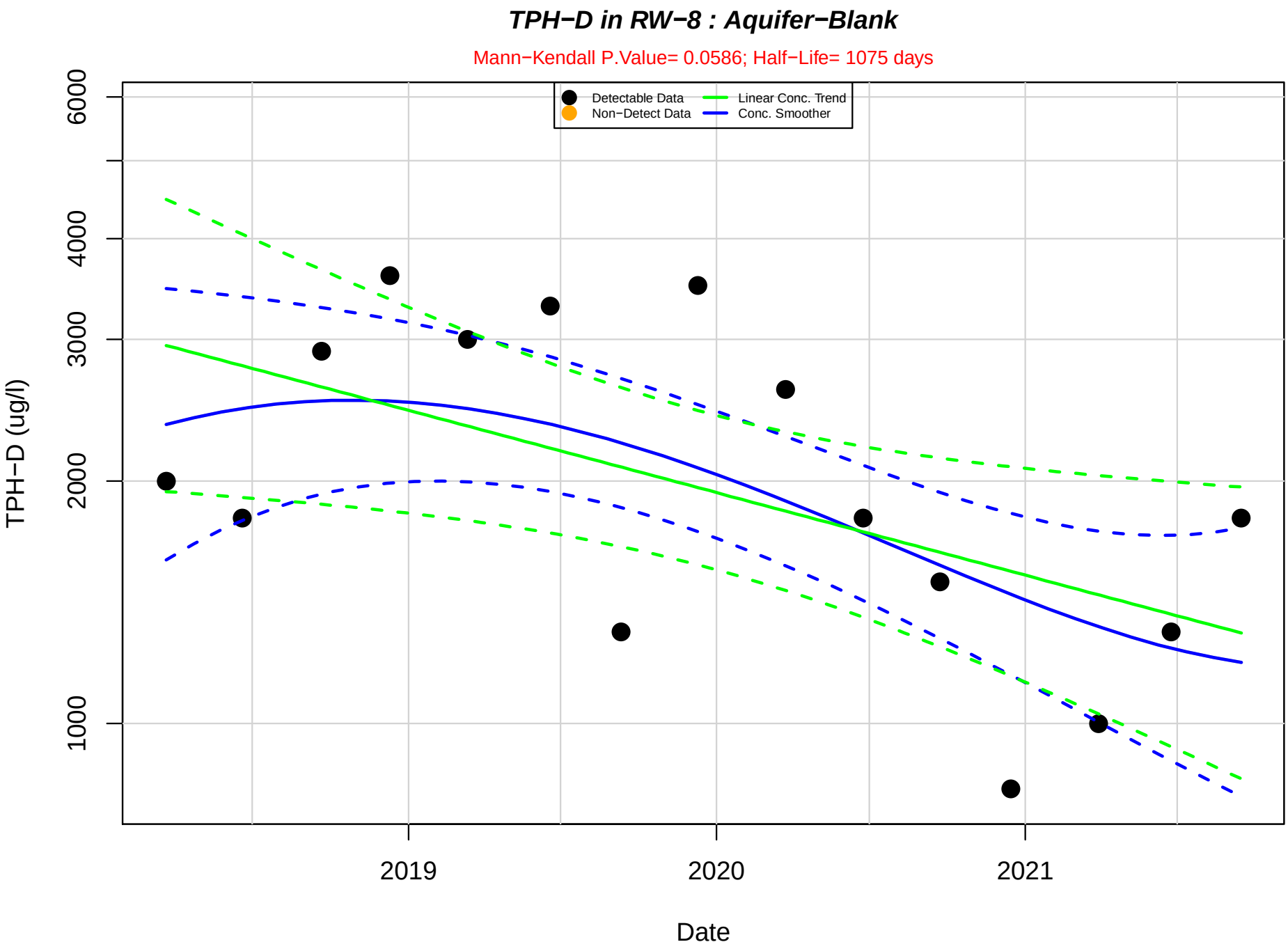

TPH−D in G−16 : Aquifer−Blank
Mann−Kendall P.Value= 0.411; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
50
100
200
500
1000
2000
2010
2012
2014
2016
2018
2020
2022
Date

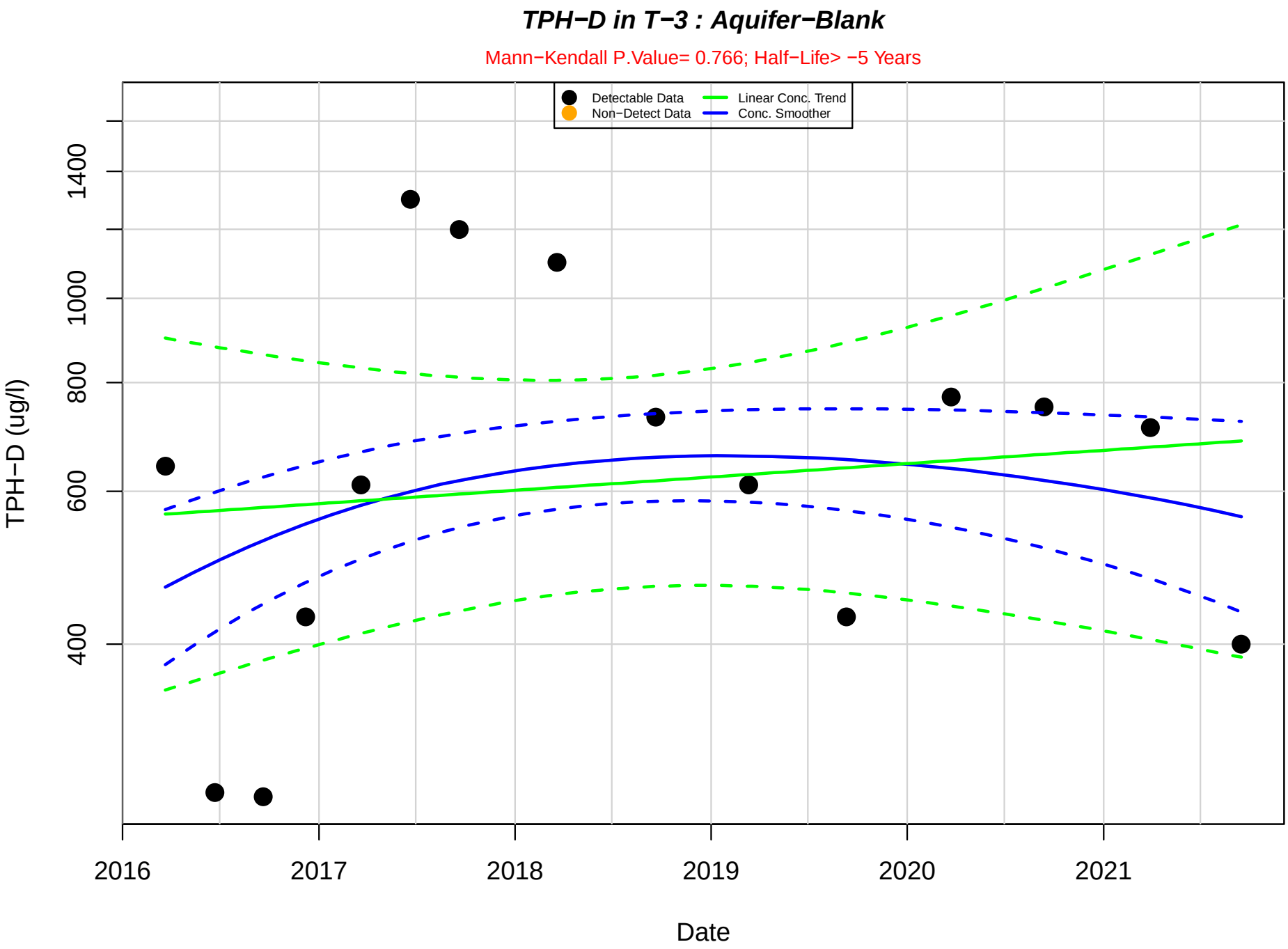

TPH−D in G−18 : Aquifer−Blank
Mann−Kendall P.Value= 1; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
500
1000
2000
2016
2017
2018
2019
2020
2021
Date

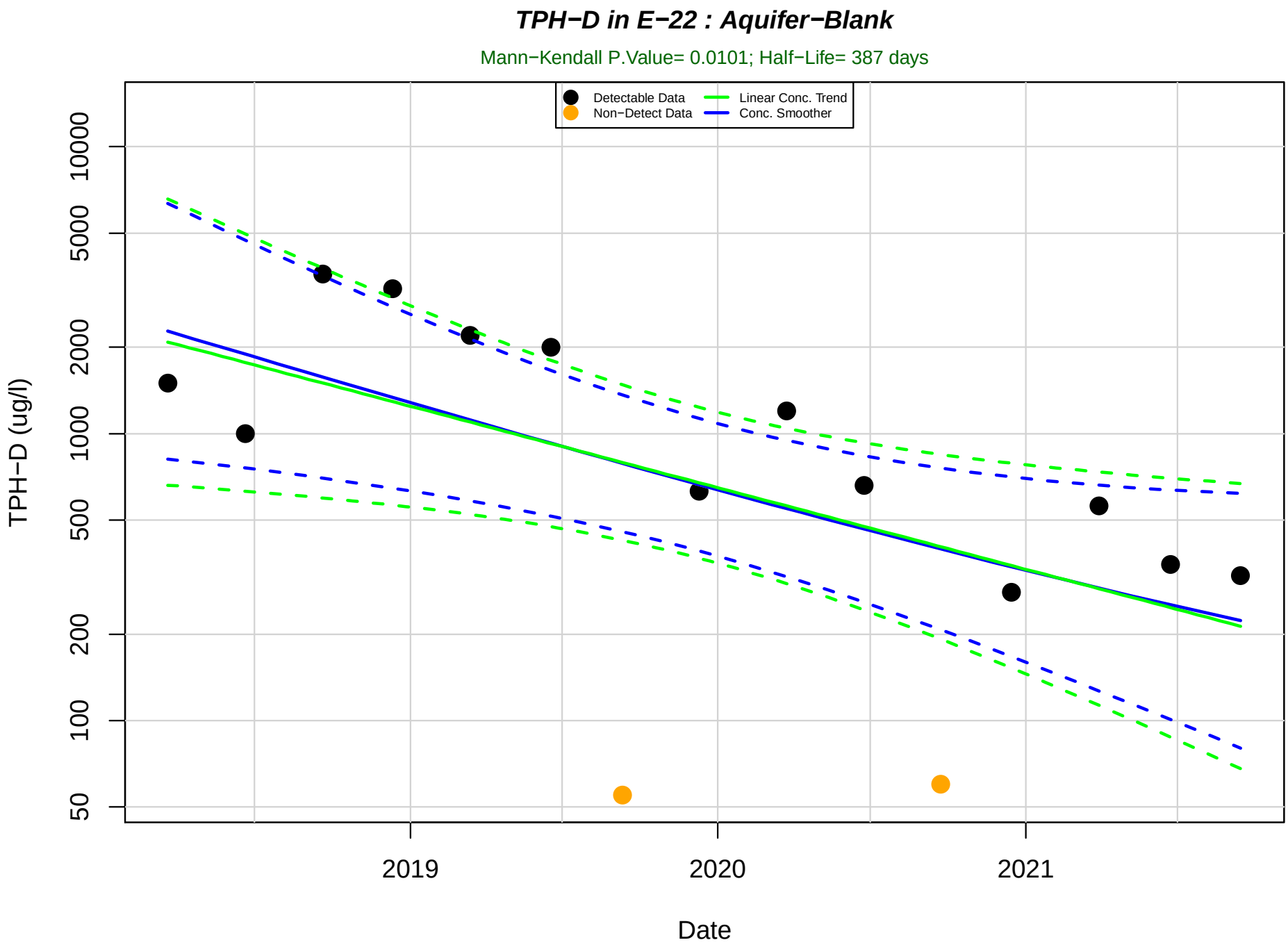

TPH−D in HC−111 : Aquifer−Blank
Mann−Kendall P.Value= 0.198; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
10000
5000
2000
2019
2020
2021
Date

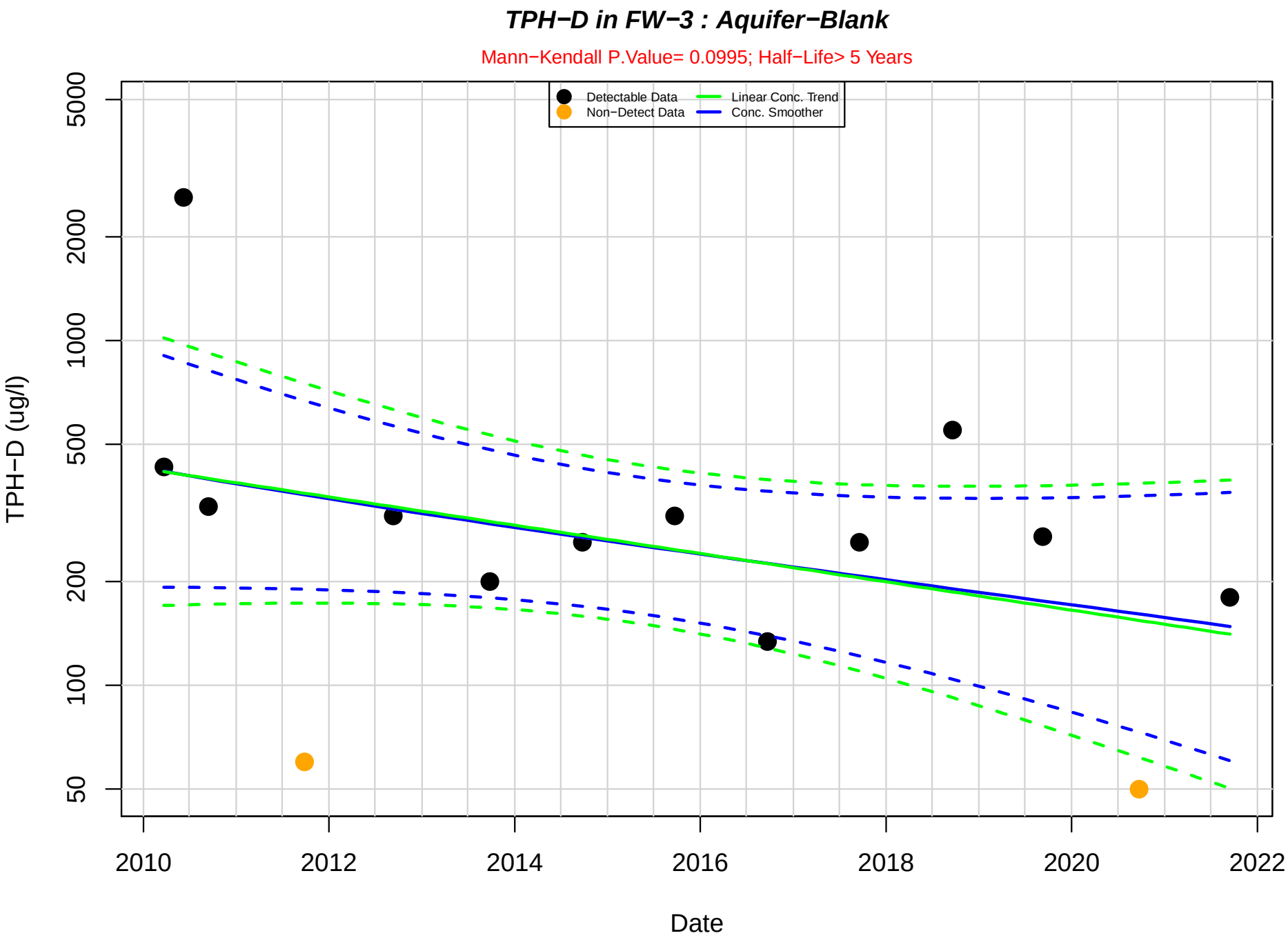

TPH−D in RW−2 : Aquifer−Blank
Mann−Kendall P.Value= 0.198; Half−Life= −1344 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
100
200
500
1000
2000
5000
2015
2016
2017
2018
2019
2020
2021
Date

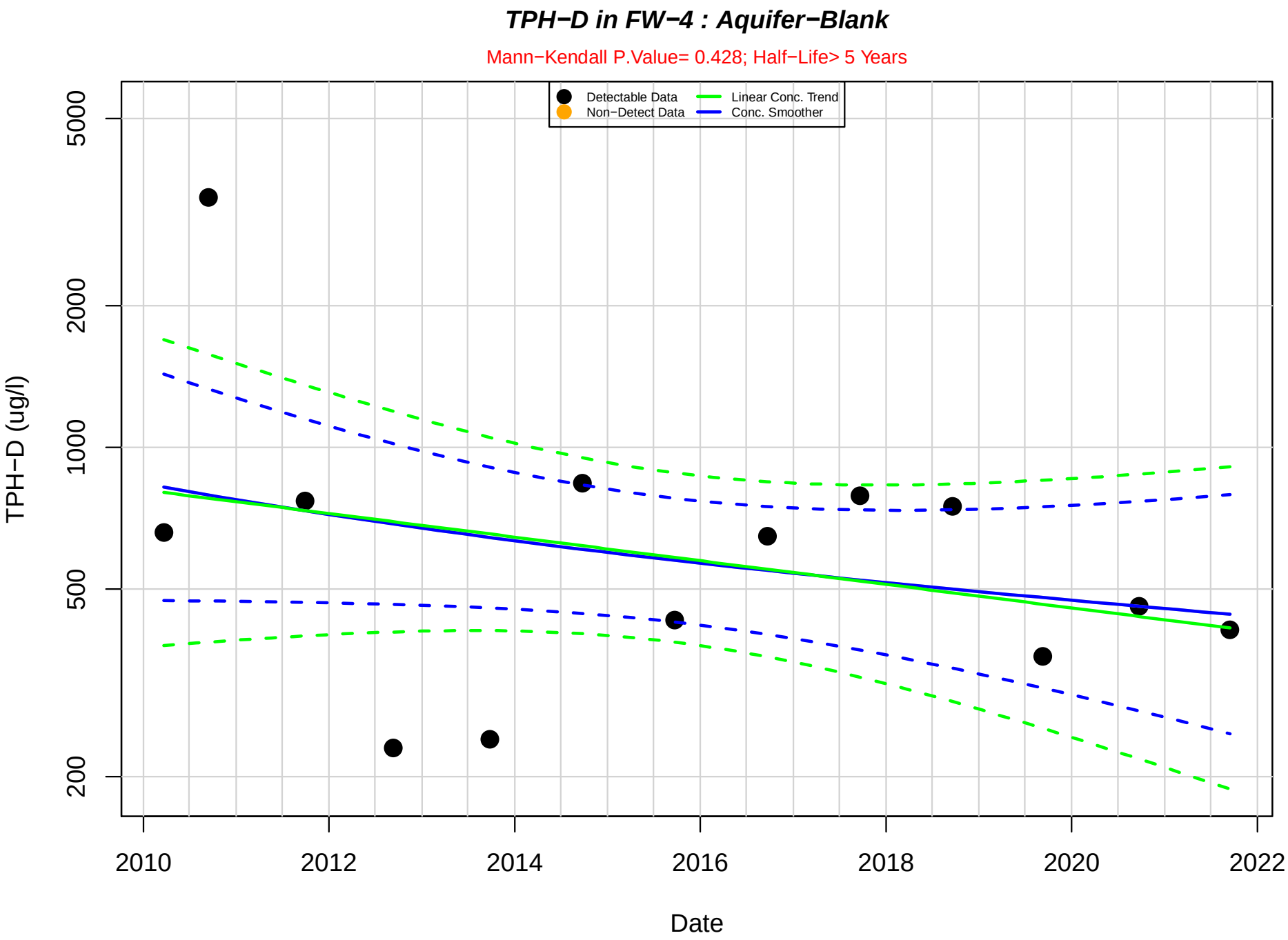

TPH−D in RW−5R : Aquifer−Blank
Mann−Kendall P.Value= 0.519; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
5000
2000
1000
500
2019
2020
2021
Date

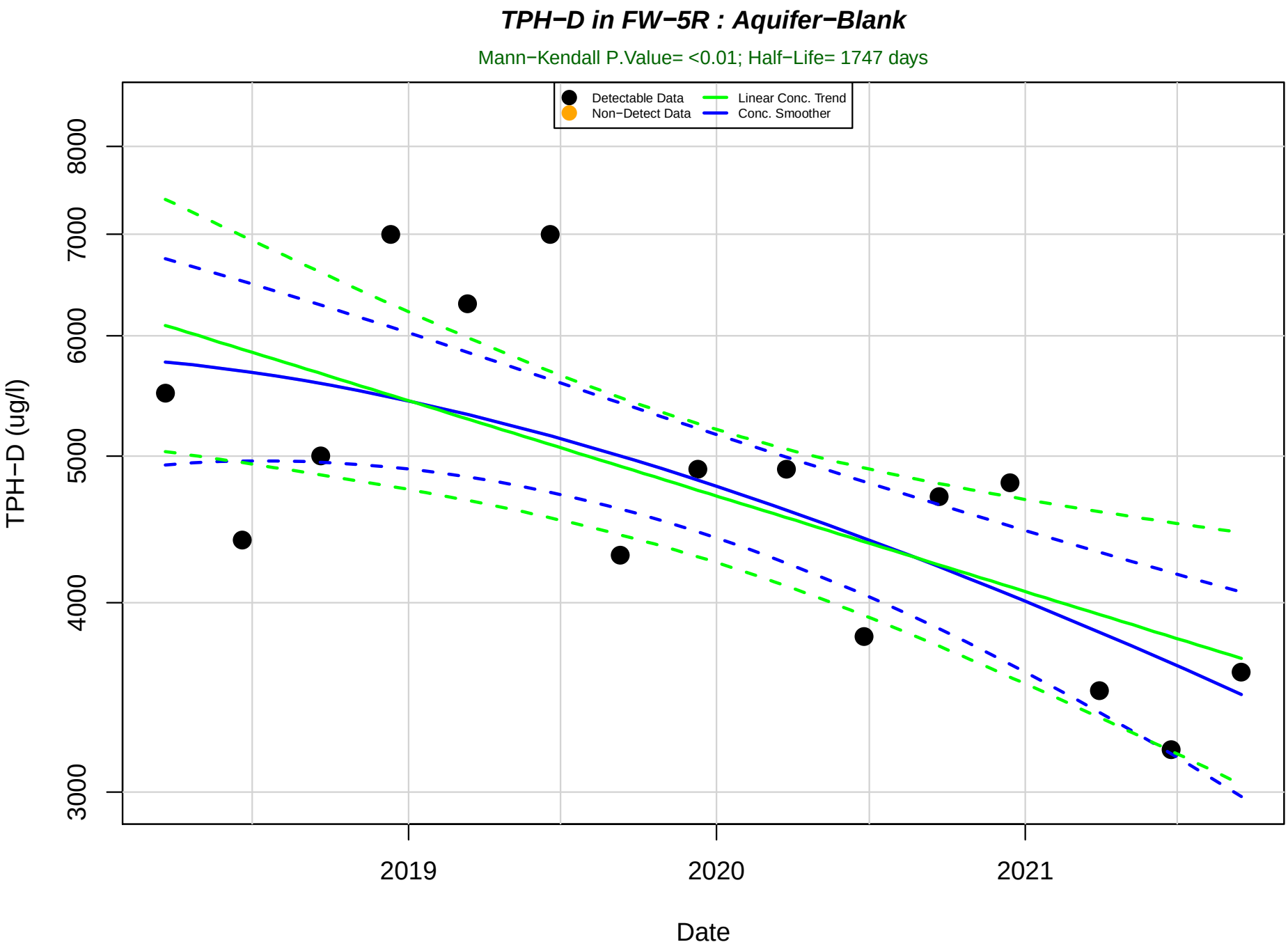

TPH−D in RW−8 : Aquifer−Blank
Mann−Kendall P.Value= 0.0586; Half−Life= 1075 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
6000
4000
3000
2000
1000
2019
2020
2021
Date

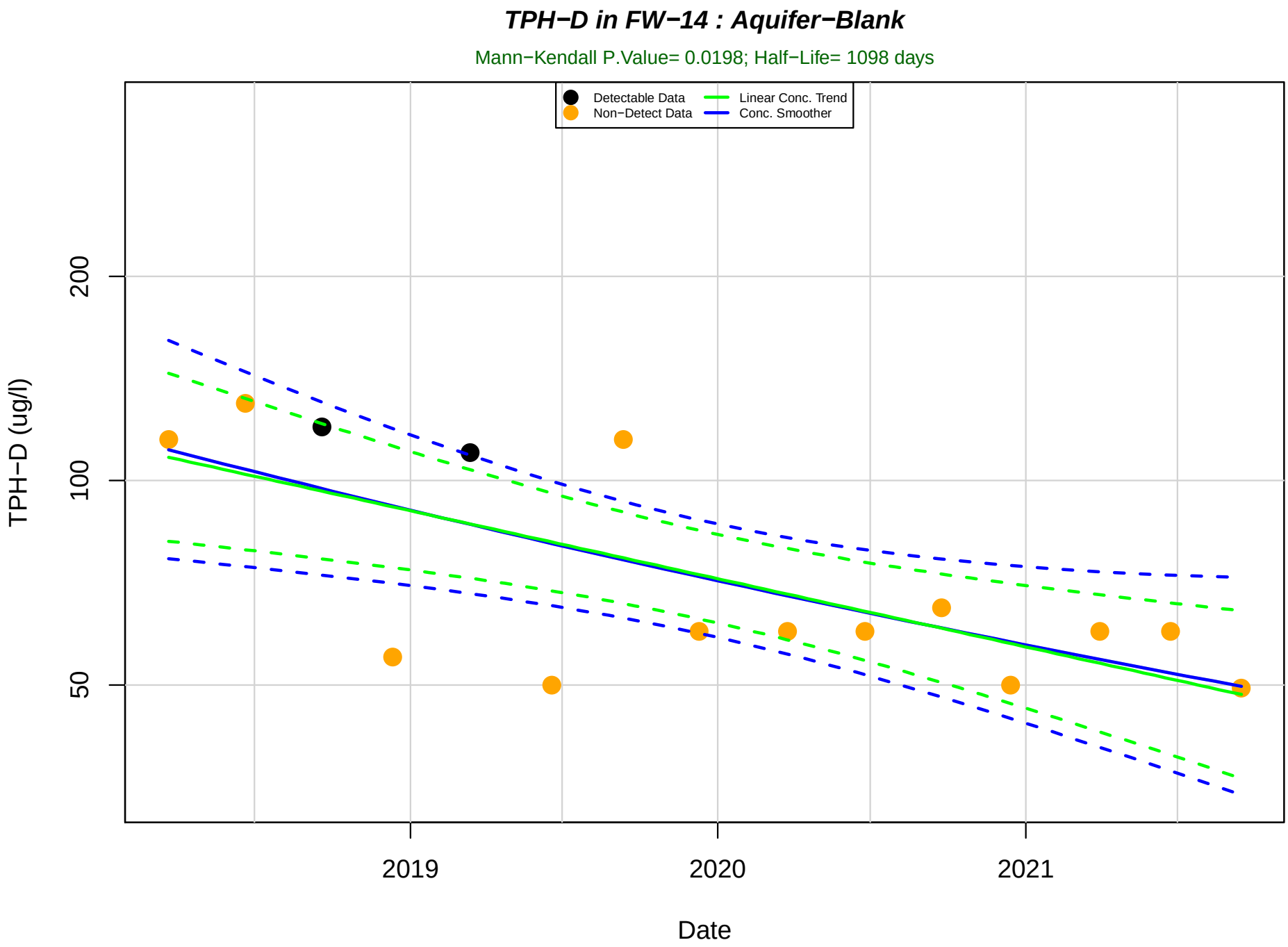

TPH−D in T−3 : Aquifer−Blank
Mann−Kendall P.Value= 0.766; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
400
600
800
1000
1400
2016
2017
2018
2019
2020
2021
Date

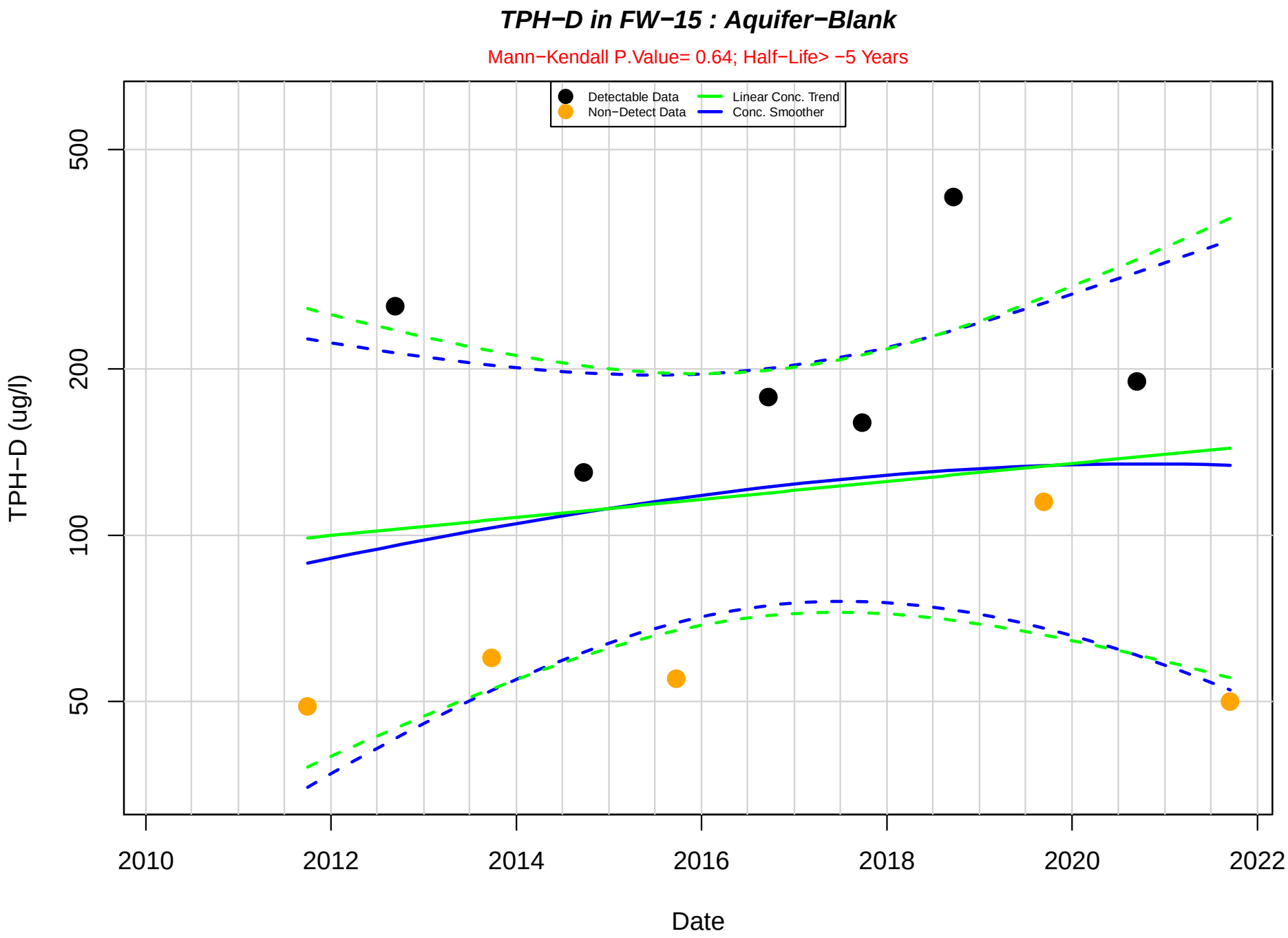

TPH−D in E−22 : Aquifer−Blank
Mann−Kendall P.Value= 0.0101; Half−Life= 387 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
10000
5000
2000
1000
500
200
100
50
2019
2020
2021
Date

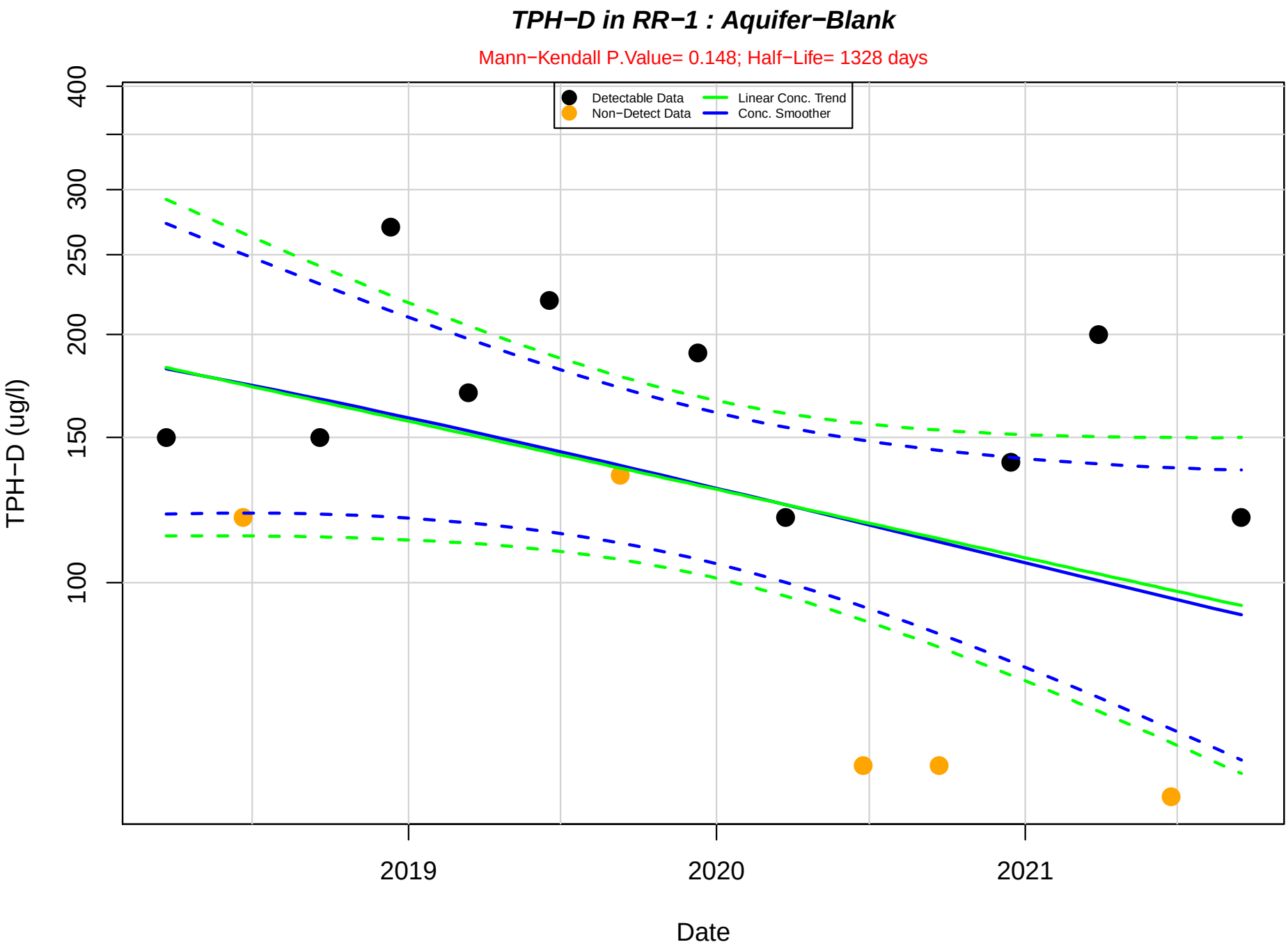

TPH−D in FW−3 : Aquifer−Blank
Mann−Kendall P.Value= 0.0995; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
5000
2000
1000
500
200
100
50
2010
2012
2014
2016
2018
2020
2022
Date

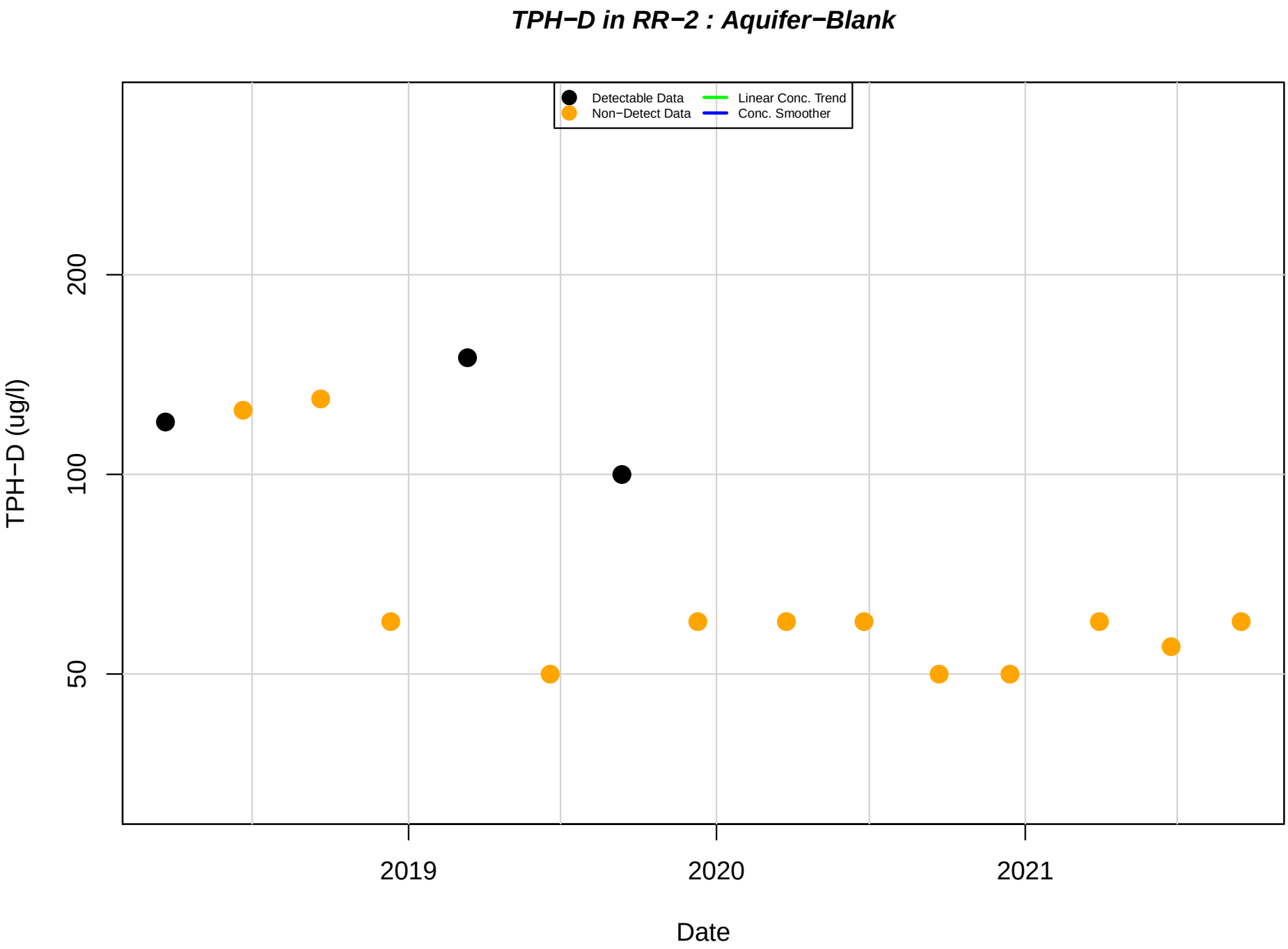

TPH−D in FW−4 : Aquifer−Blank
Mann−Kendall P.Value= 0.428; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
5000
2000
1000
500
200
2010
2012
2014
2016
2018
2020
2022
Date

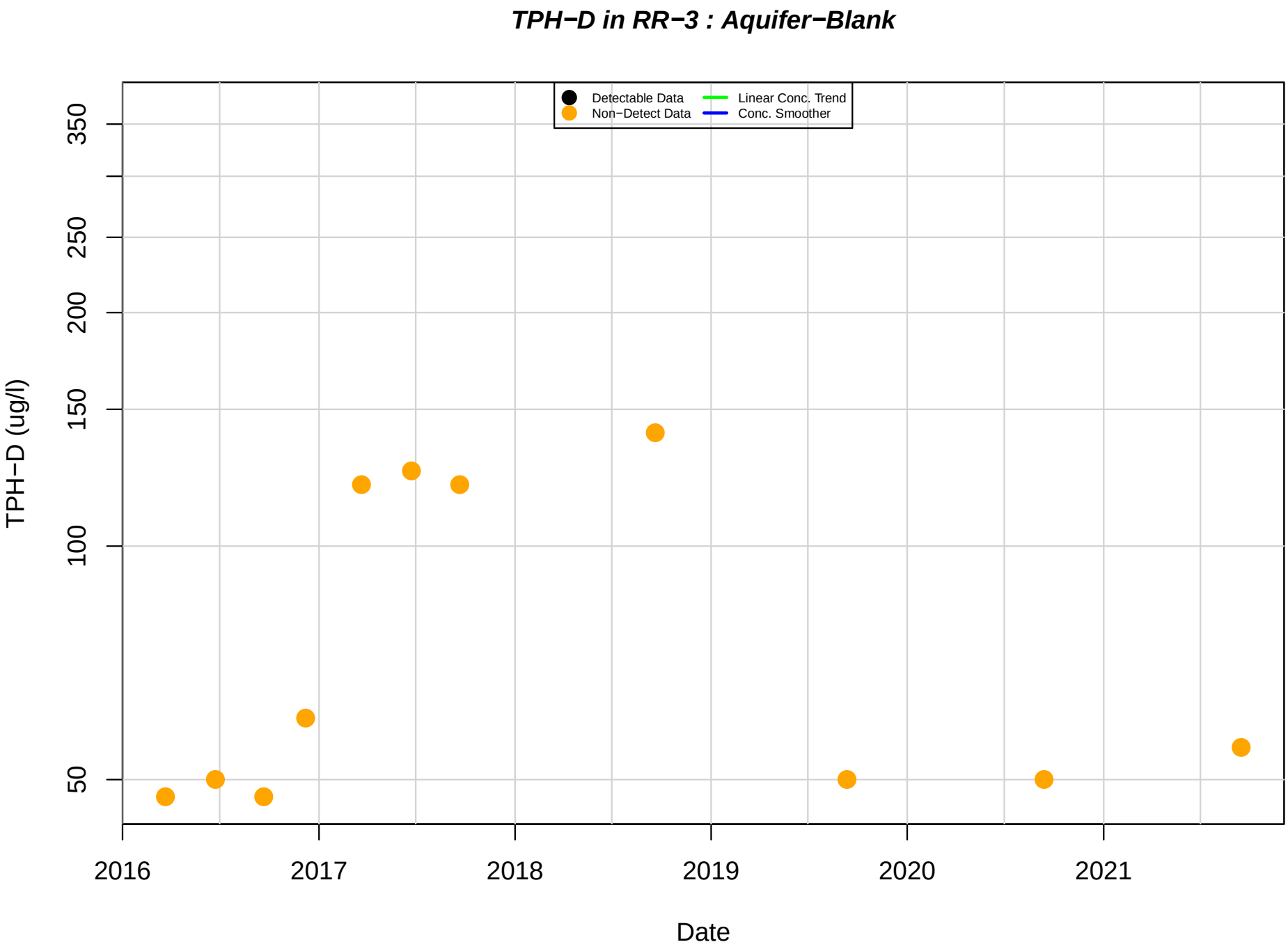

TPH−D in FW−5R : Aquifer−Blank
Mann−Kendall P.Value= <0.01; Half−Life= 1747 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
3000
4000
5000
6000
7000
8000
2019
2020
2021
Date

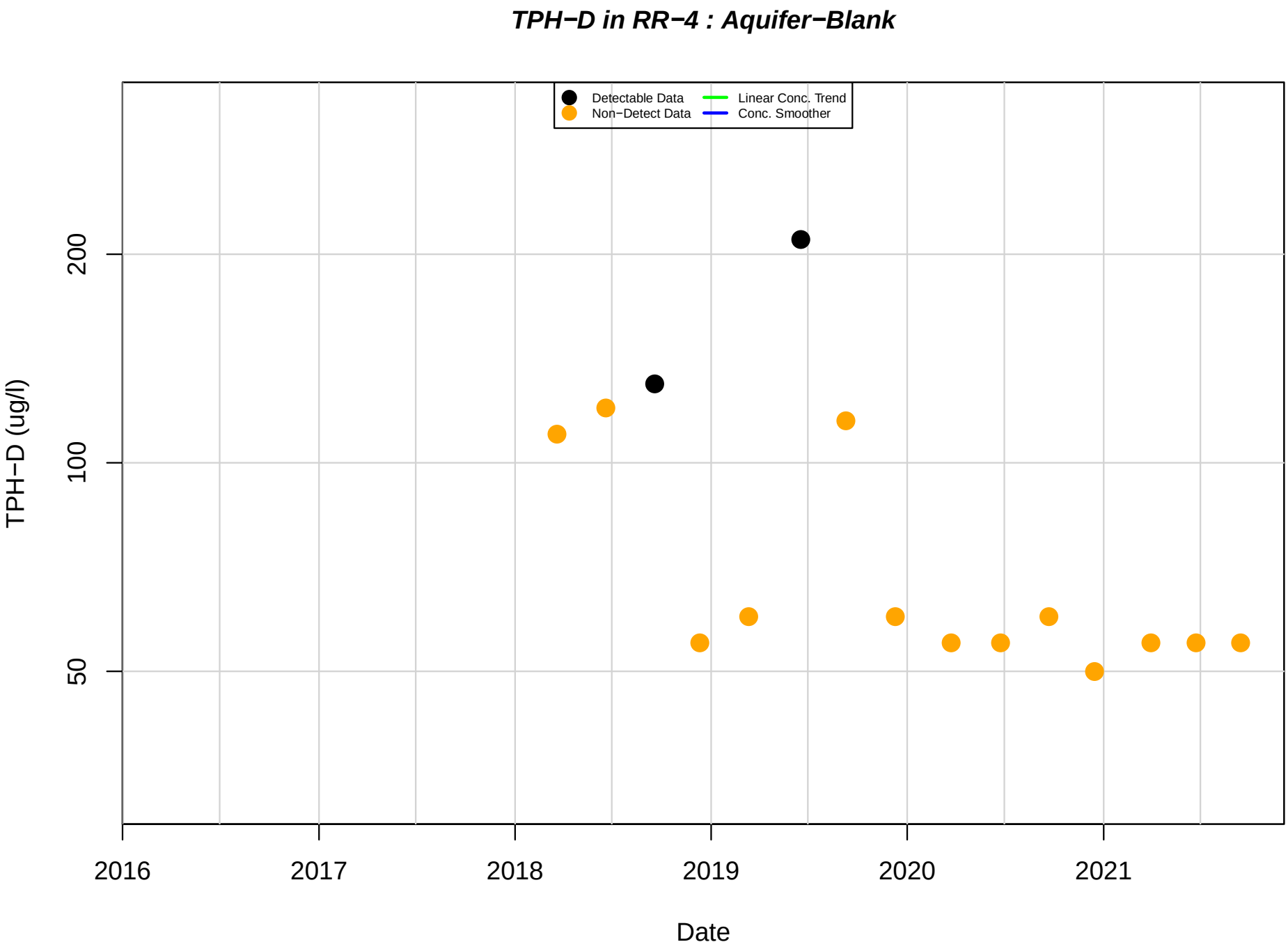

TPH−D in FW−14 : Aquifer−Blank
Mann−Kendall P.Value= 0.0198; Half−Life= 1098 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
200
100
50
2019
2020
2021
Date

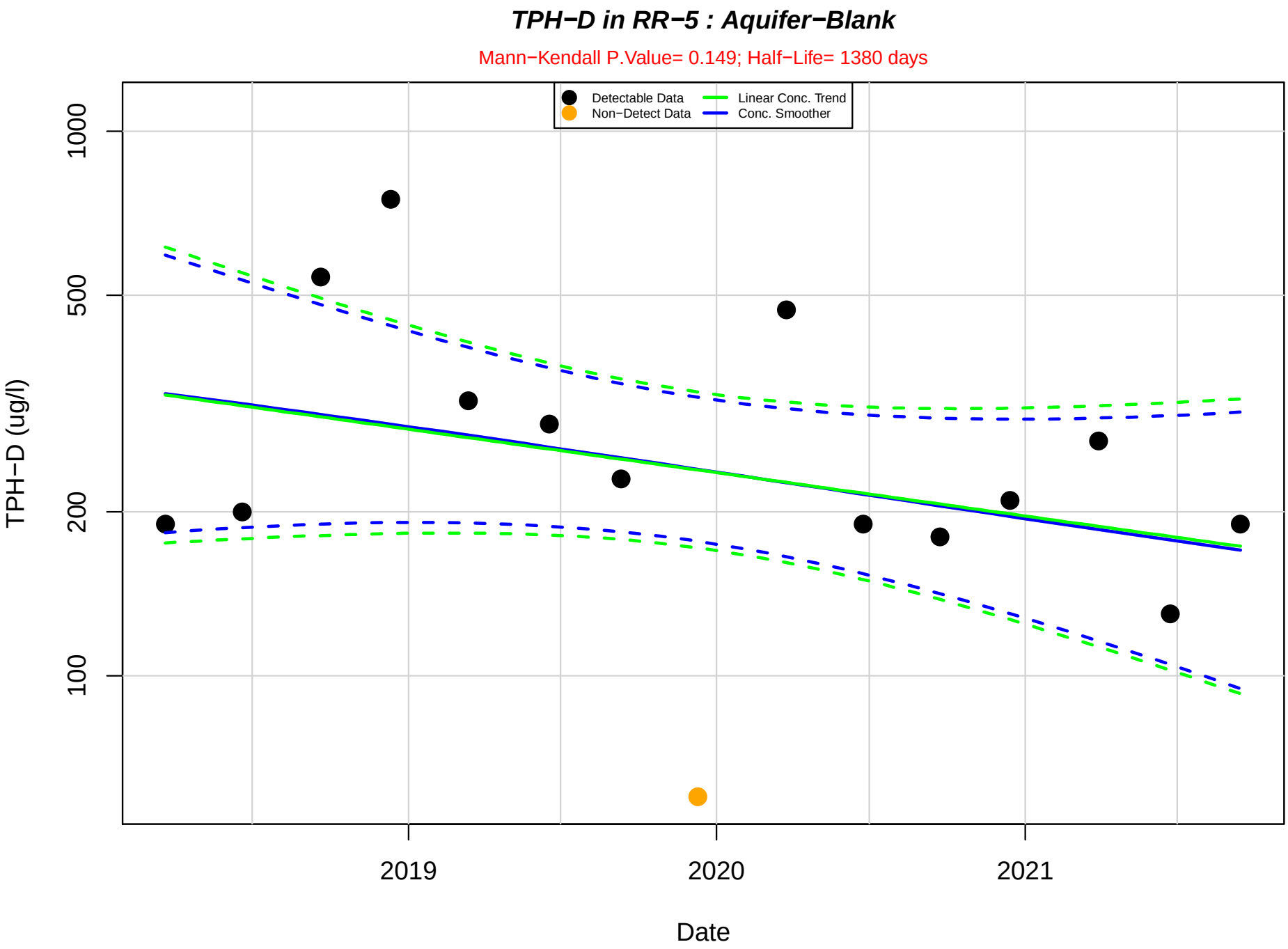

TPH−D in FW−15 : Aquifer−Blank
Mann−Kendall P.Value= 0.64; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
500
200
100
50
2010
2012
2014
2016
2018
2020
2022
Date

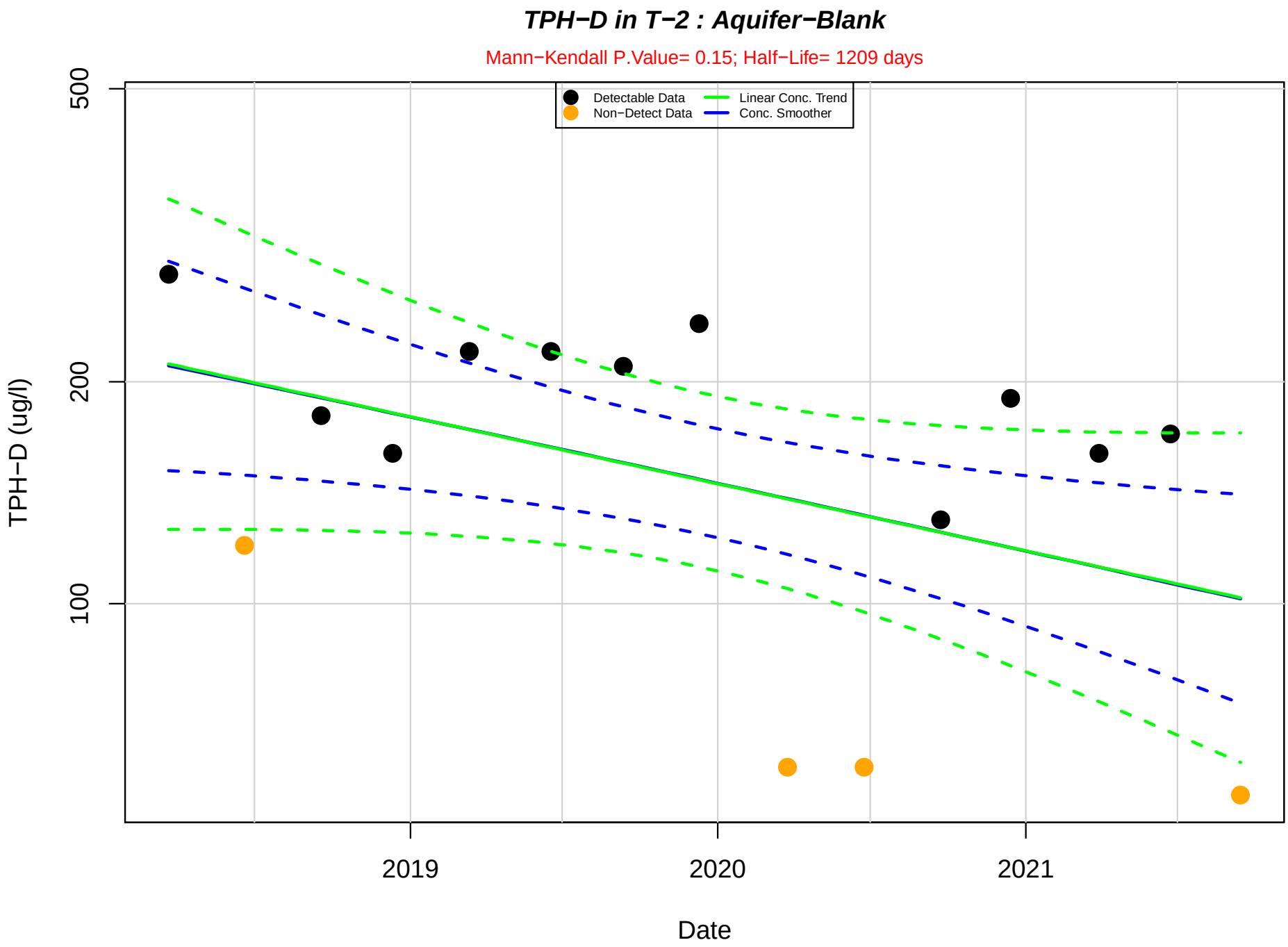

TPH−D in RR−1 : Aquifer−Blank
Mann−Kendall P.Value= 0.148; Half−Life= 1328 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
400
300
250
200
150
100
2019
2020
2021
Date

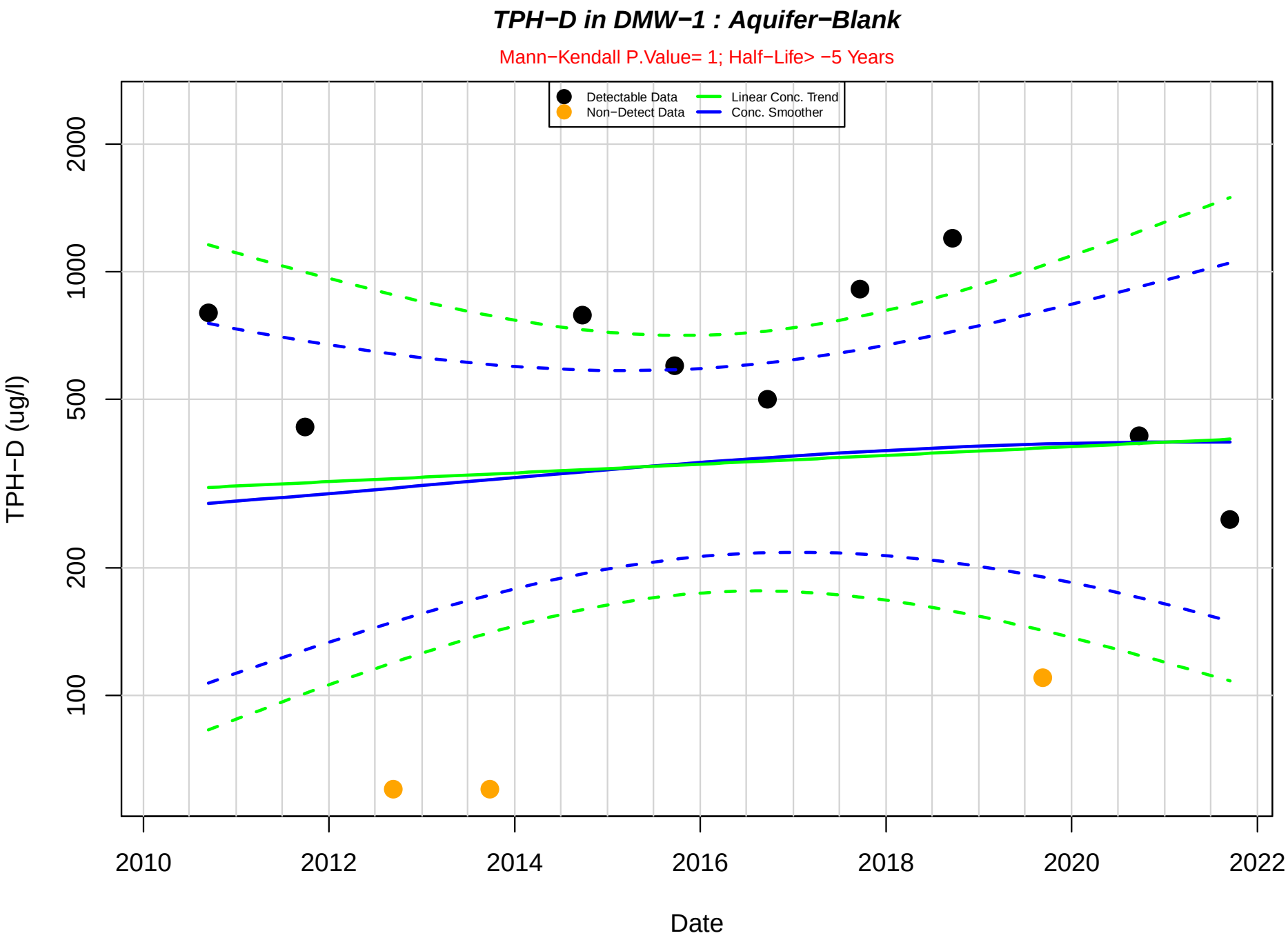

TPH−D in RR−2 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
200
100
50
2019
2020
2021
Date

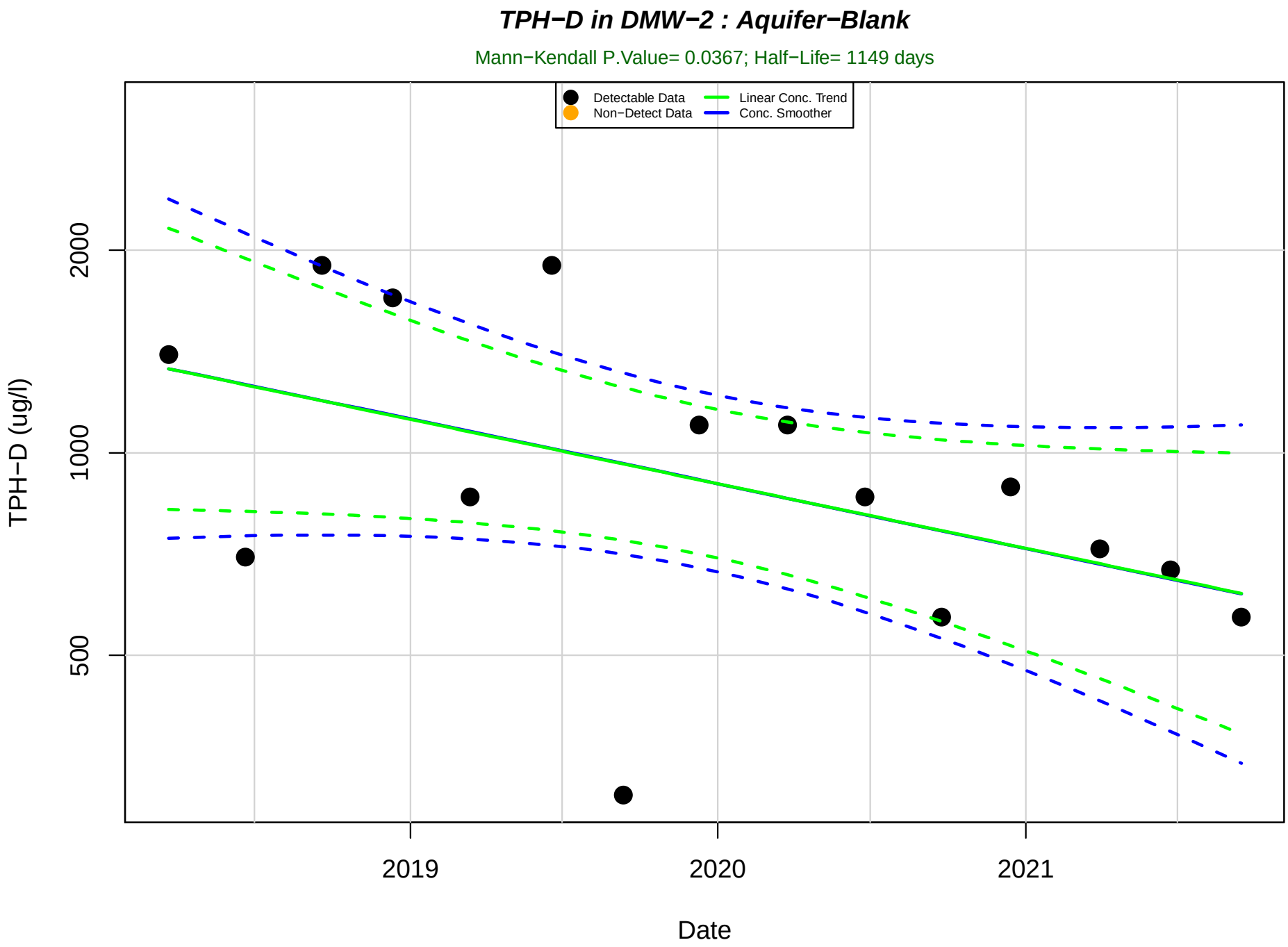

TPH−D in RR−3 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
350
250
200
150
100
50
2016
2017
2018
2019
2020
2021
Date

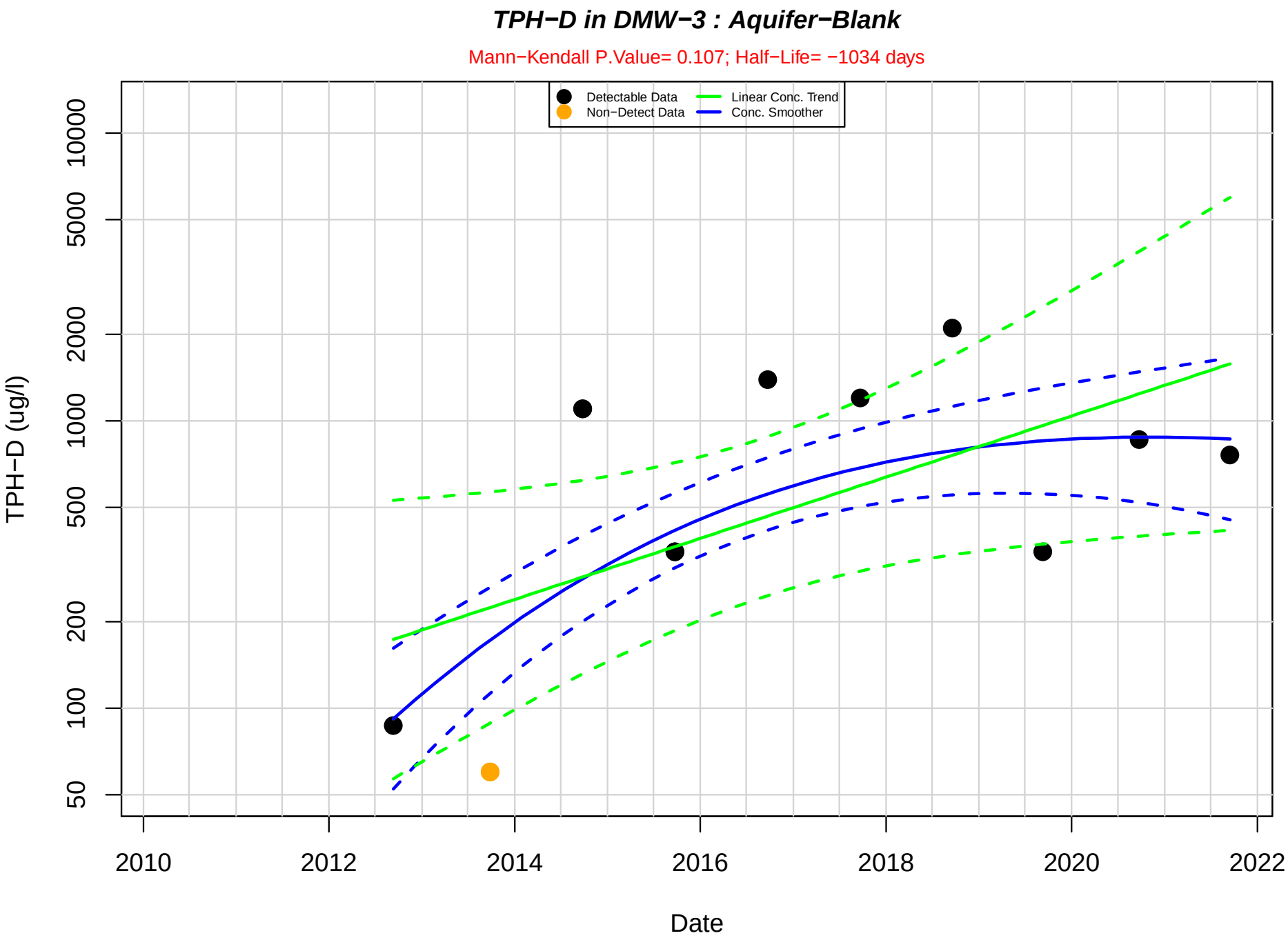

TPH−D in RR−4 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
200
100
50
2016
2017
2018
2019
2020
2021
Date

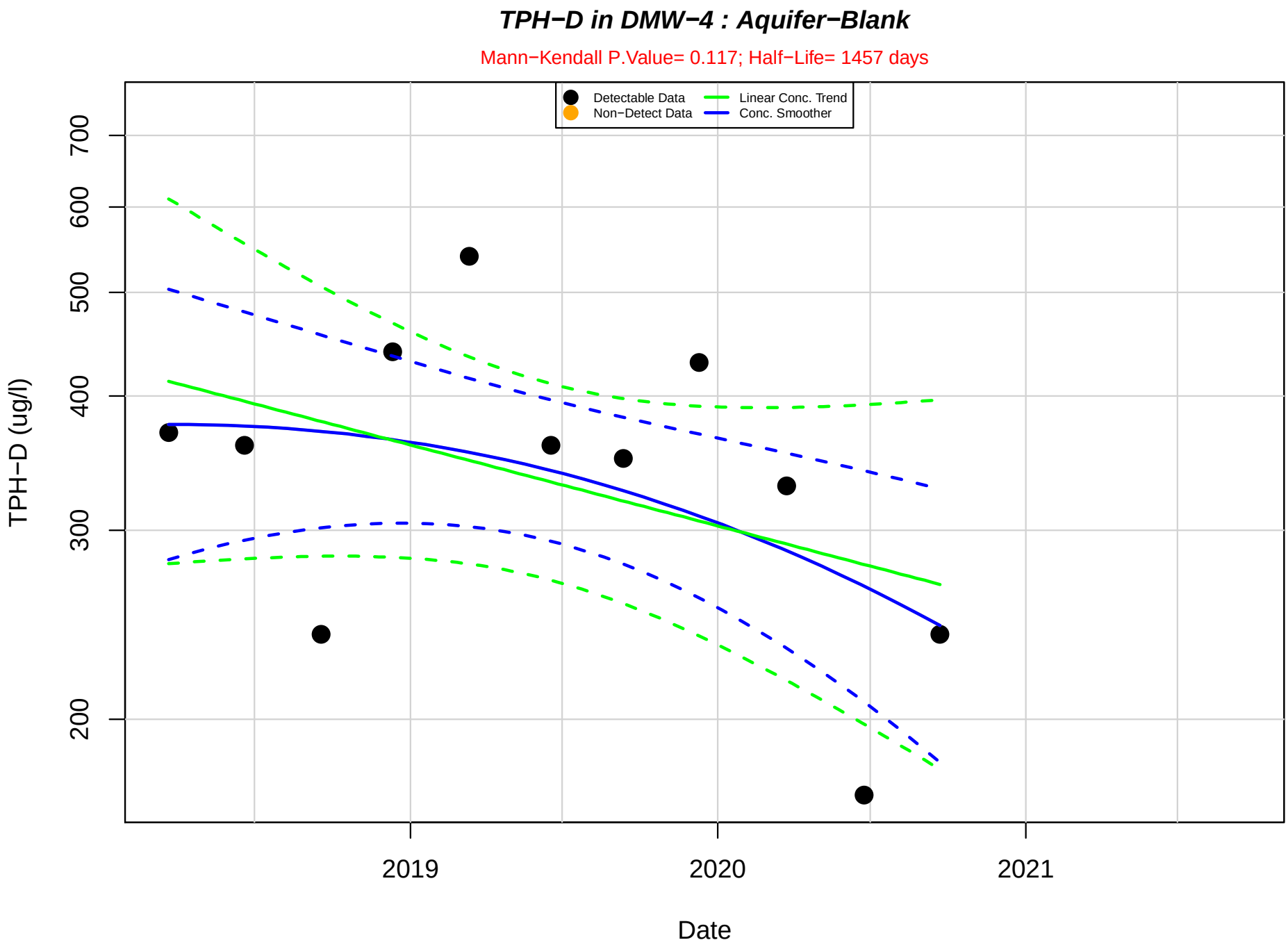

TPH−D in RR−5 : Aquifer−Blank
Mann−Kendall P.Value= 0.149; Half−Life= 1380 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
1000
500
200
100
2019
2020
2021
Date

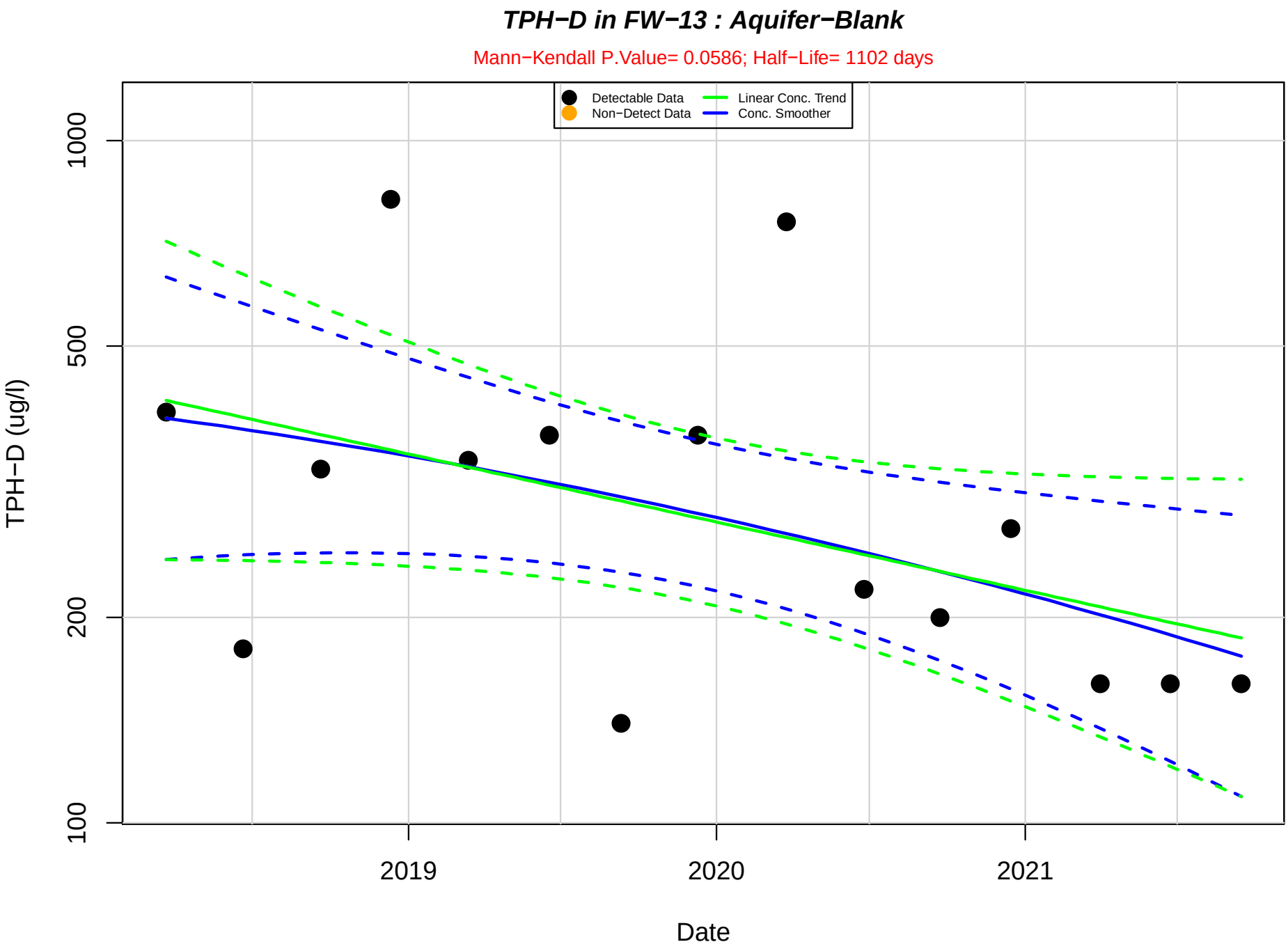

TPH−D in T−2 : Aquifer−Blank
Mann−Kendall P.Value= 0.15; Half−Life= 1209 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
500
200
100
TPH−D (ug/l)
2019
2020
2021
Date

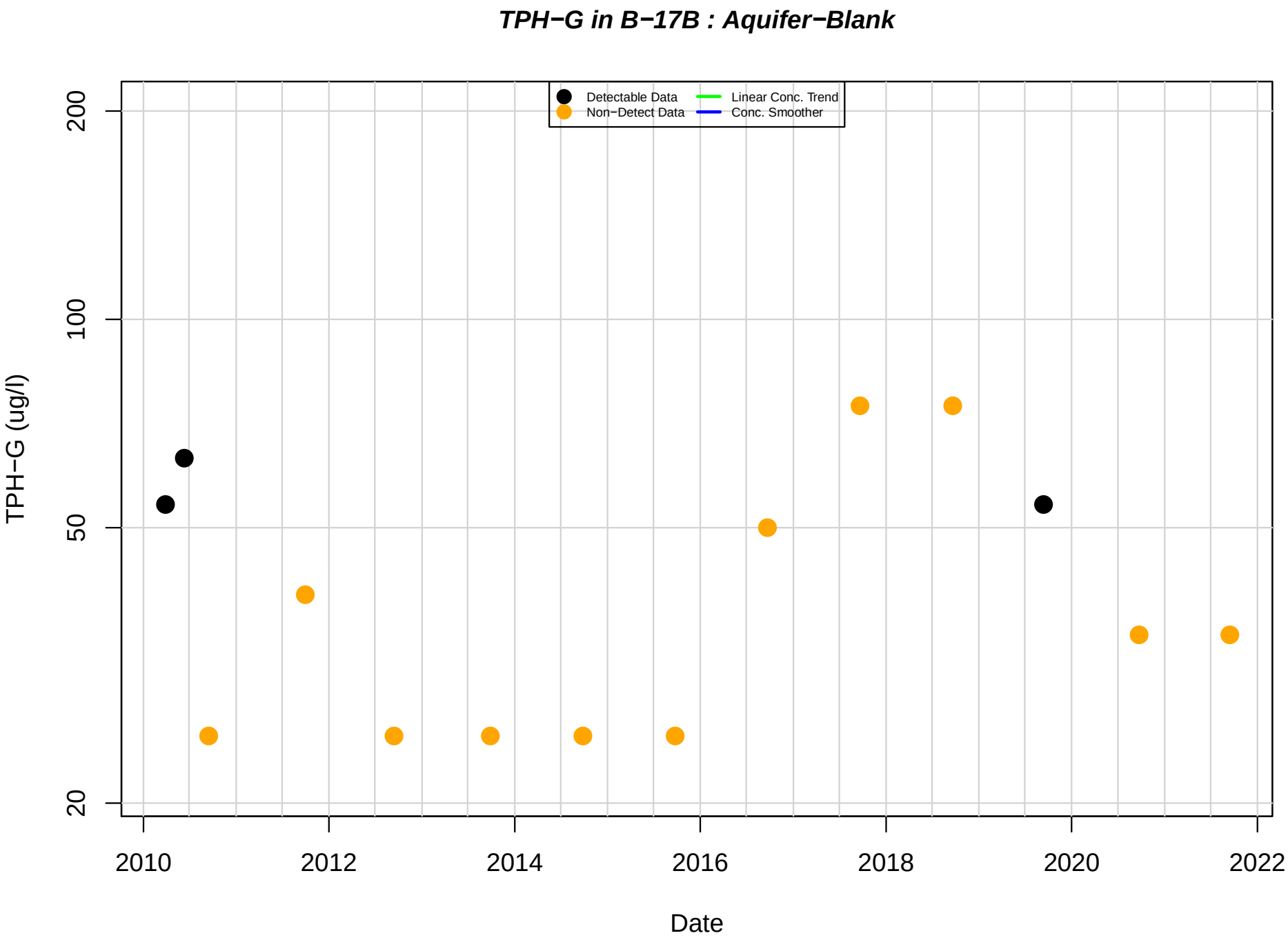

TPH−D in DMW−1 : Aquifer−Blank
Mann−Kendall P.Value= 1; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
100
200
500
1000
2000
2010
2012
2014
2016
2018
2020
2022
Date

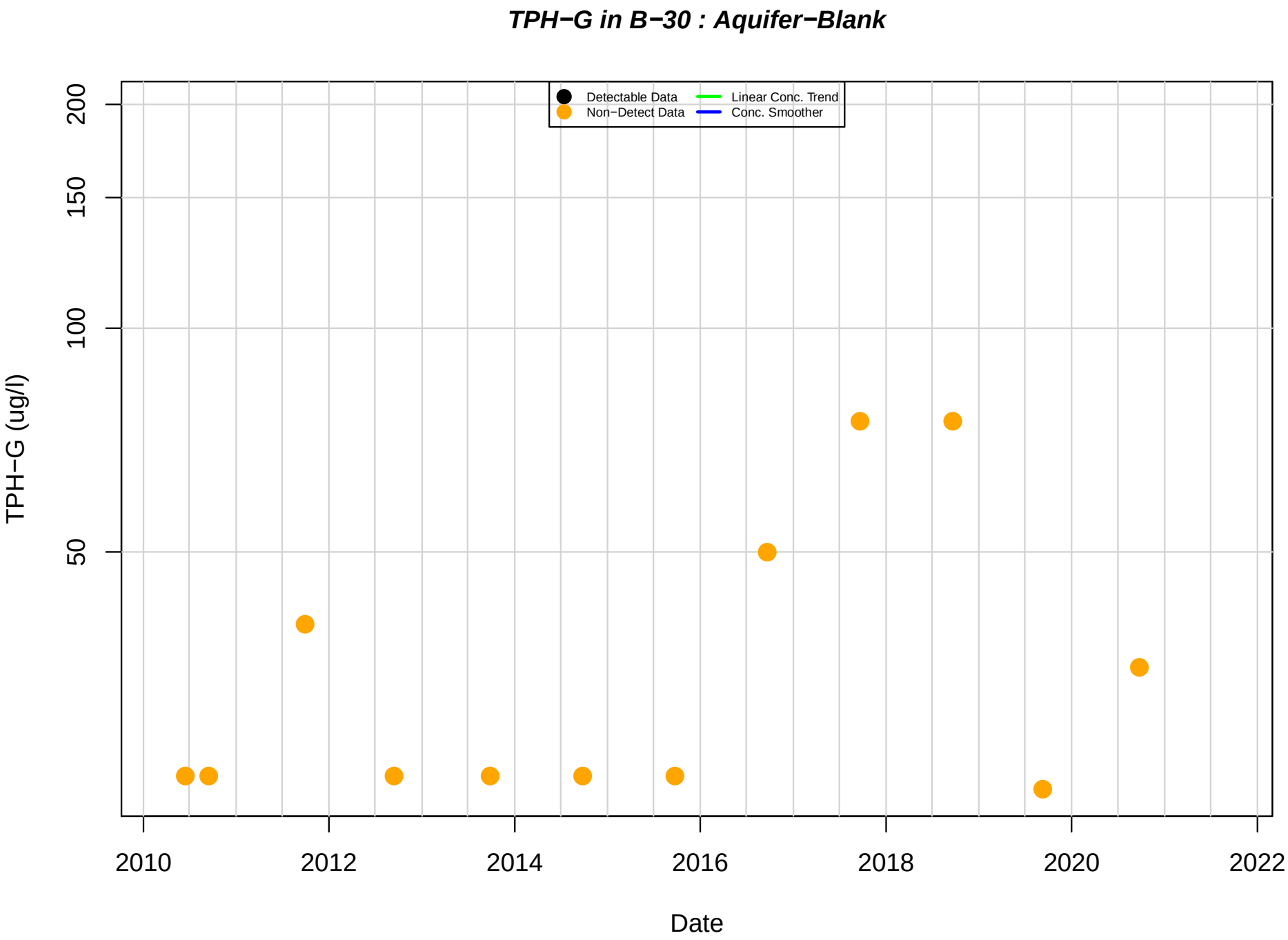

TPH−D in DMW−2 : Aquifer−Blank
Mann−Kendall P.Value= 0.0367; Half−Life= 1149 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
500
1000
2000
2019
2020
2021
Date

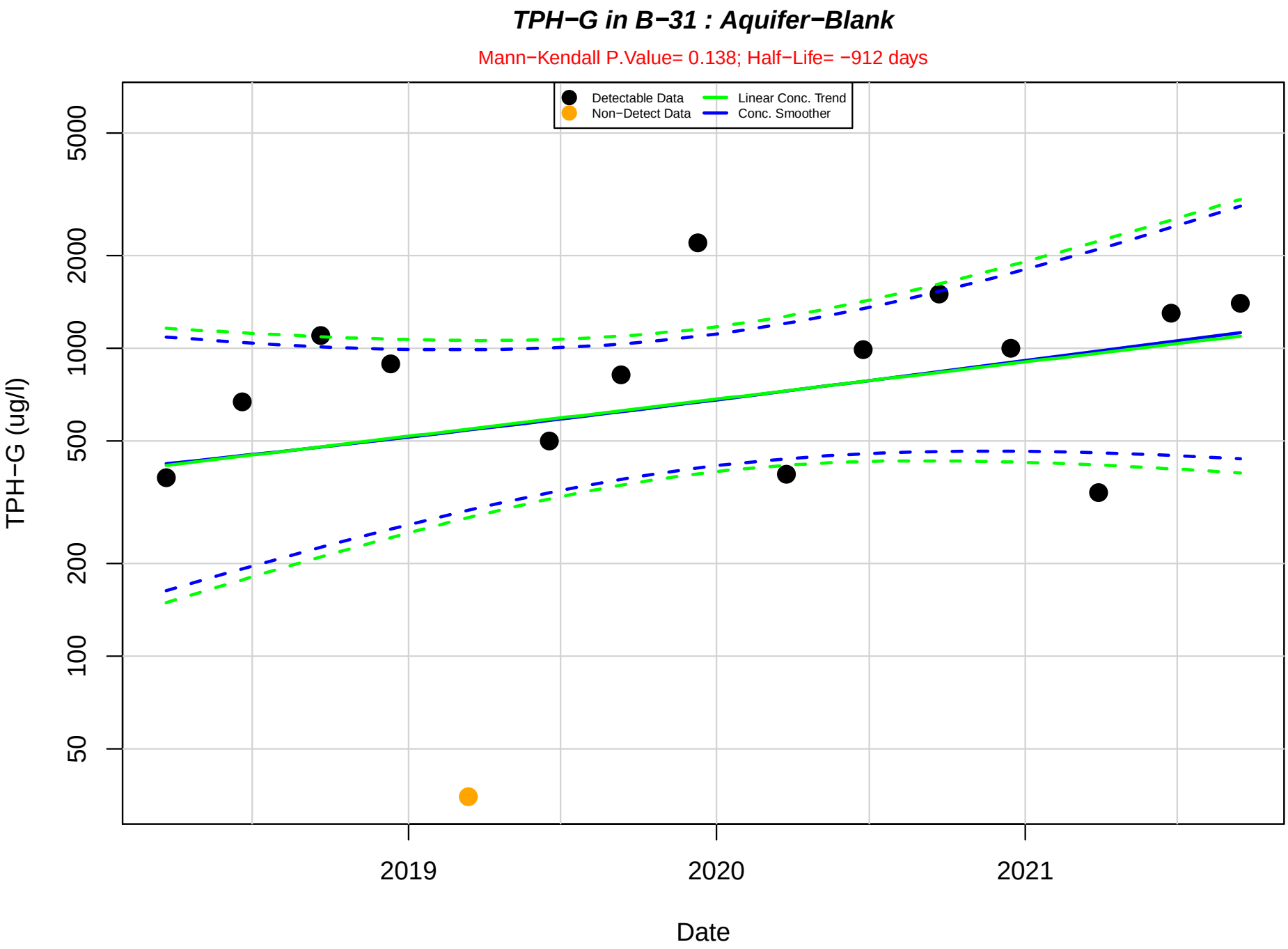

TPH−D in DMW−3 : Aquifer−Blank
Mann−Kendall P.Value= 0.107; Half−Life= −1034 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
50
100
200
500
1000
2000
5000
10000
2010
2012
2014
2016
2018
2020
2022
Date


TPH−D in DMW−4 : Aquifer−Blank
Mann−Kendall P.Value= 0.117; Half−Life= 1457 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
700
600
500
400
300
200
2019
2020
2021
Date

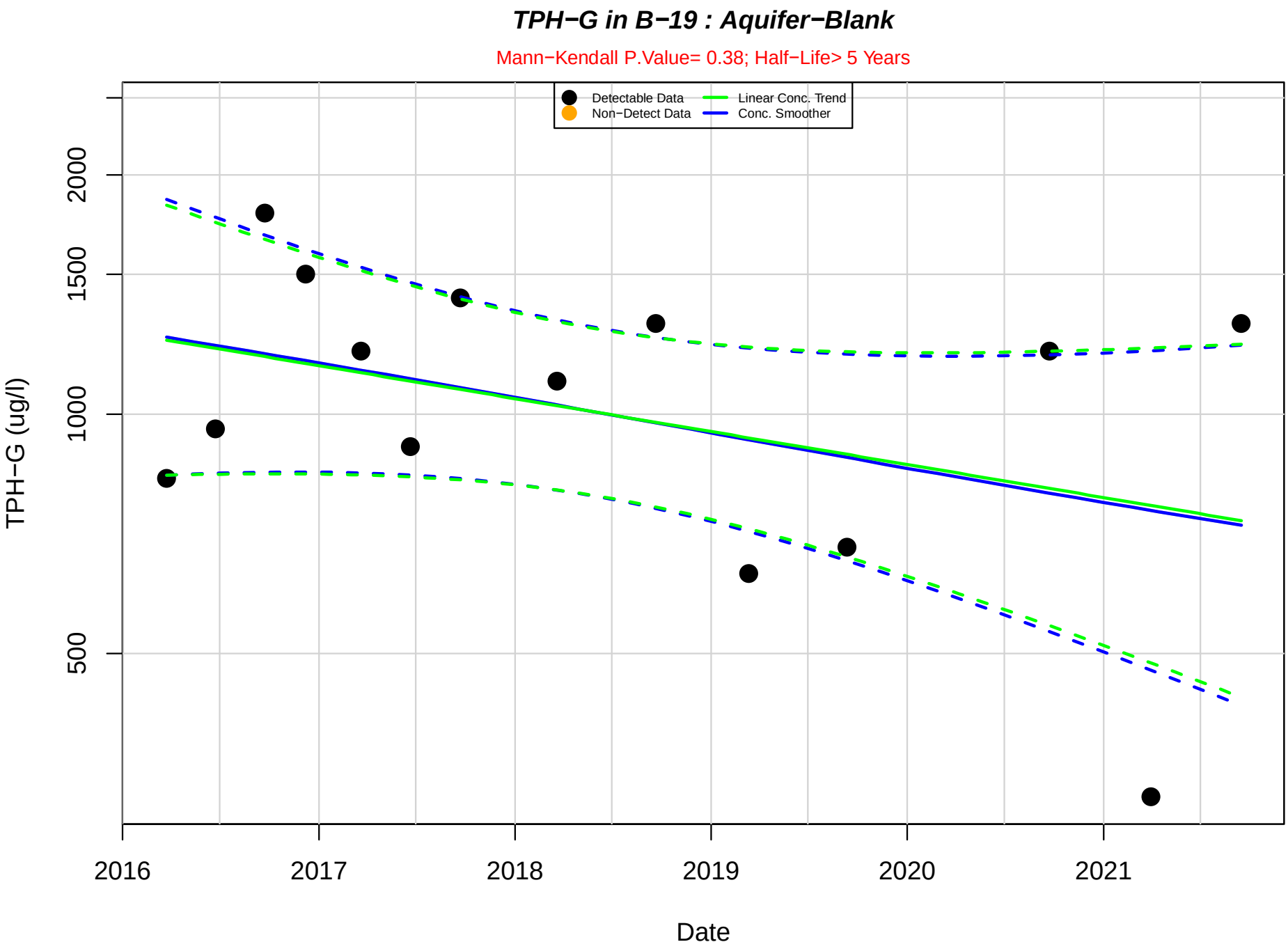

TPH−D in FW−13 : Aquifer−Blank
Mann−Kendall P.Value= 0.0586; Half−Life= 1102 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−D (ug/l)
1000
500
200
100
2019
2020
2021
Date

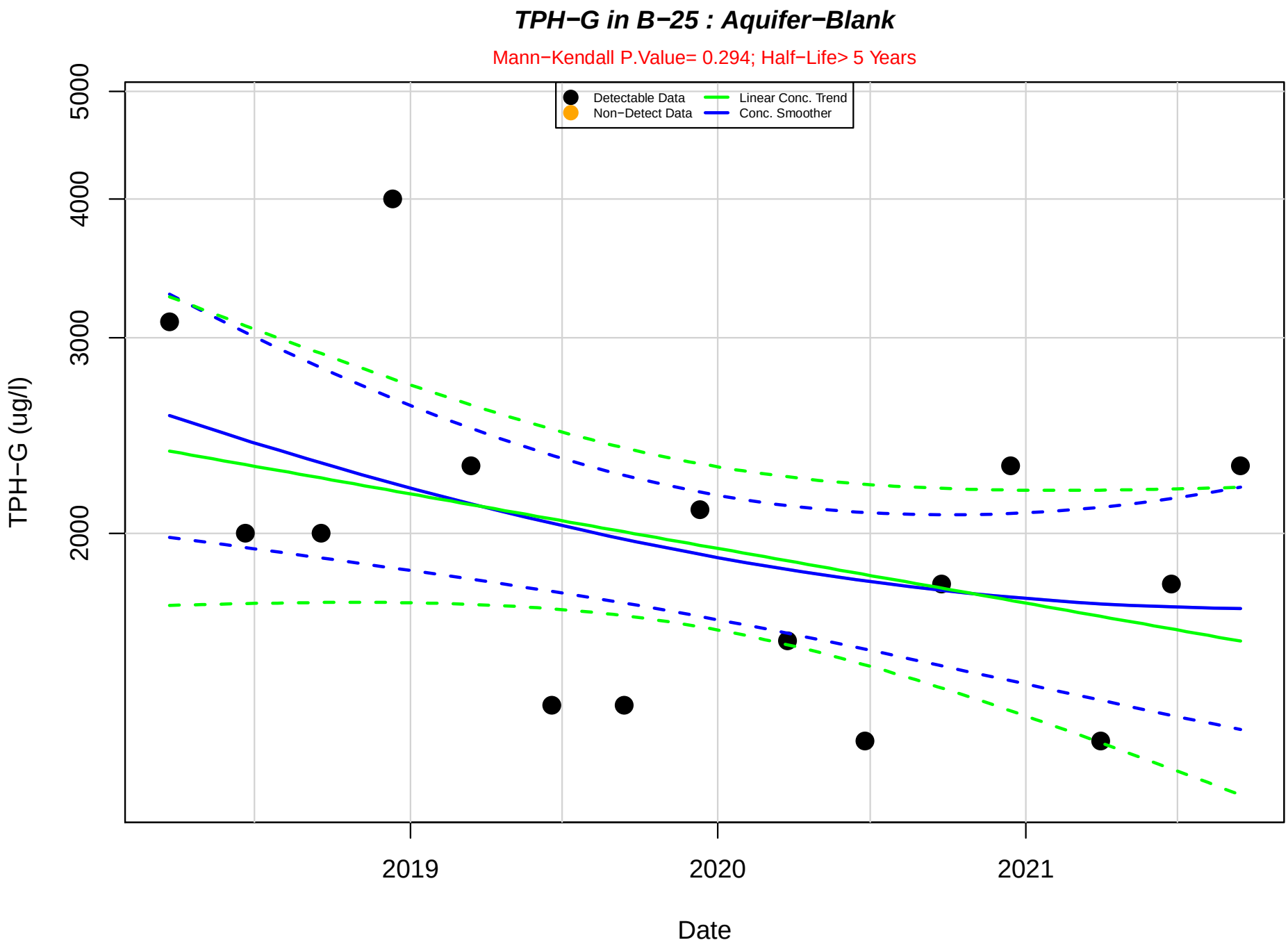

TPH−G in B−17B : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
20
2010
2012
2014
2016
2018
2020
2022
Date

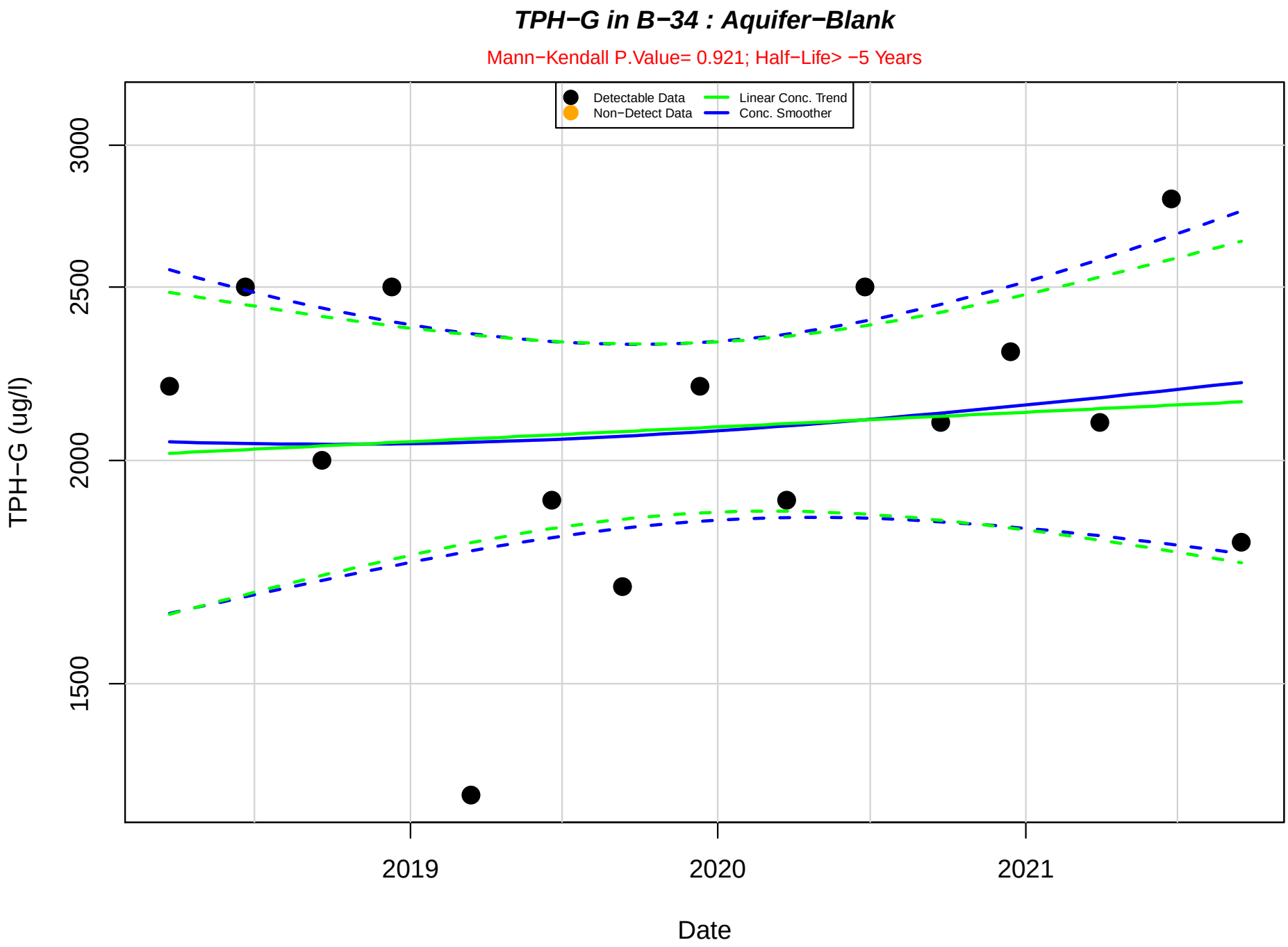

TPH−G in B−30 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
150
100
50
2010
2012
2014
2016
2018
2020
2022
Date

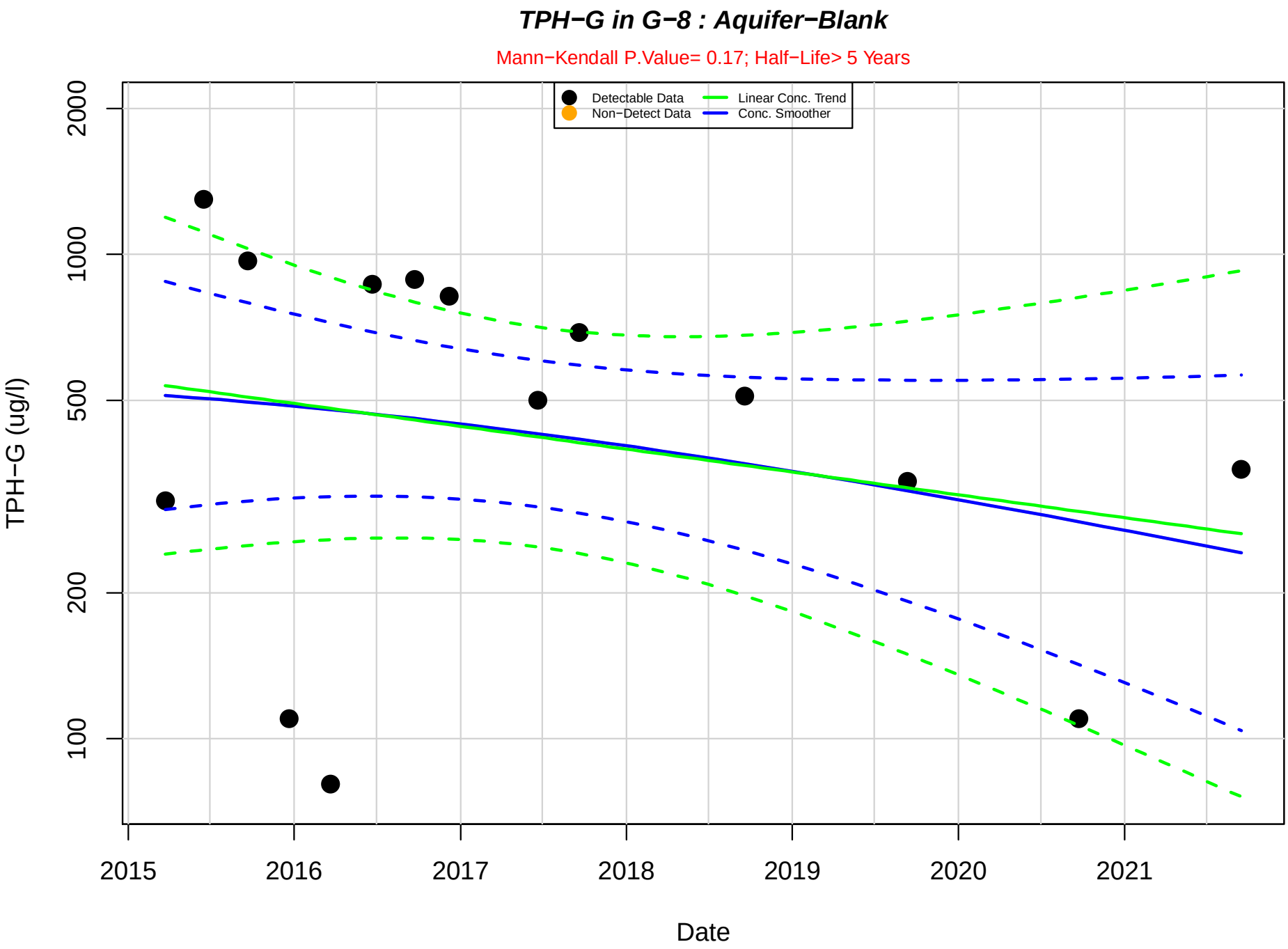

TPH−G in B−31 : Aquifer−Blank
Mann−Kendall P.Value= 0.138; Half−Life= −912 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
5000
2000
1000
500
200
100
50
2019
2020
2021
Date

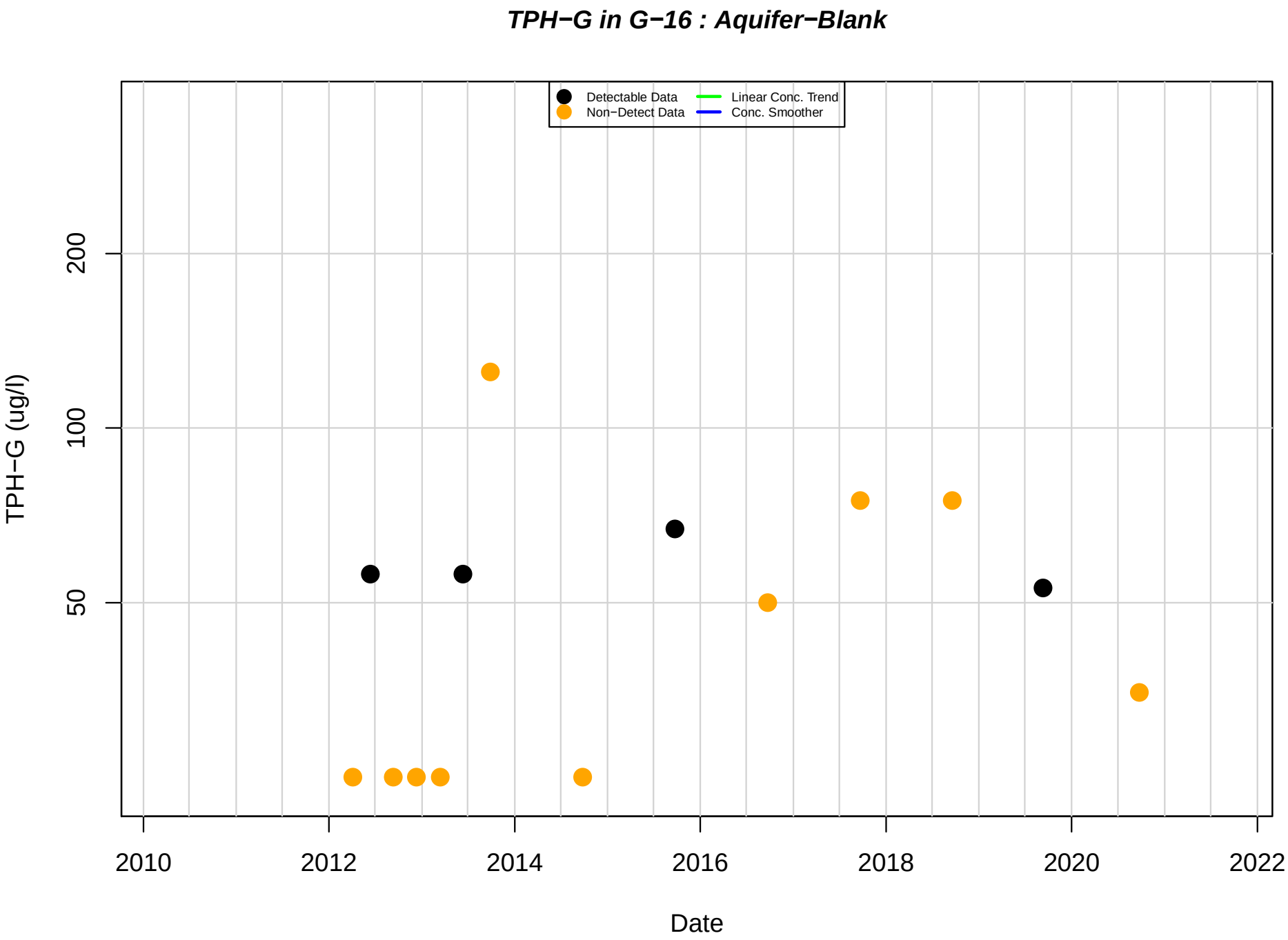
TPH−G in E−21 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
200
100
50
20
2016
2017
2018
2019
2020
2021
Date

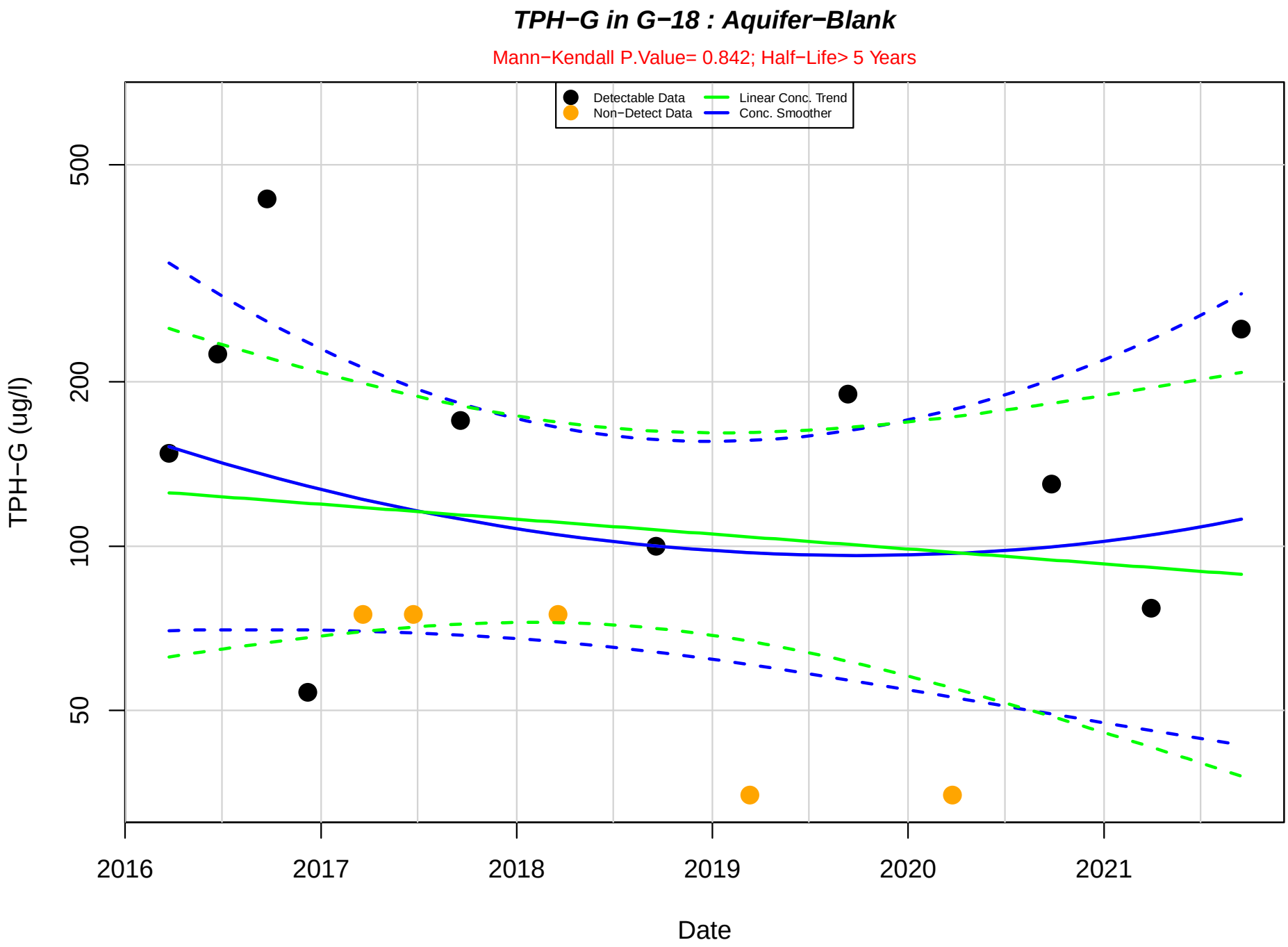

TPH−G in B−19 : Aquifer−Blank
Mann−Kendall P.Value= 0.38; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
1000
1500
2000
2016
2017
2018
2019
2020
2021
Date

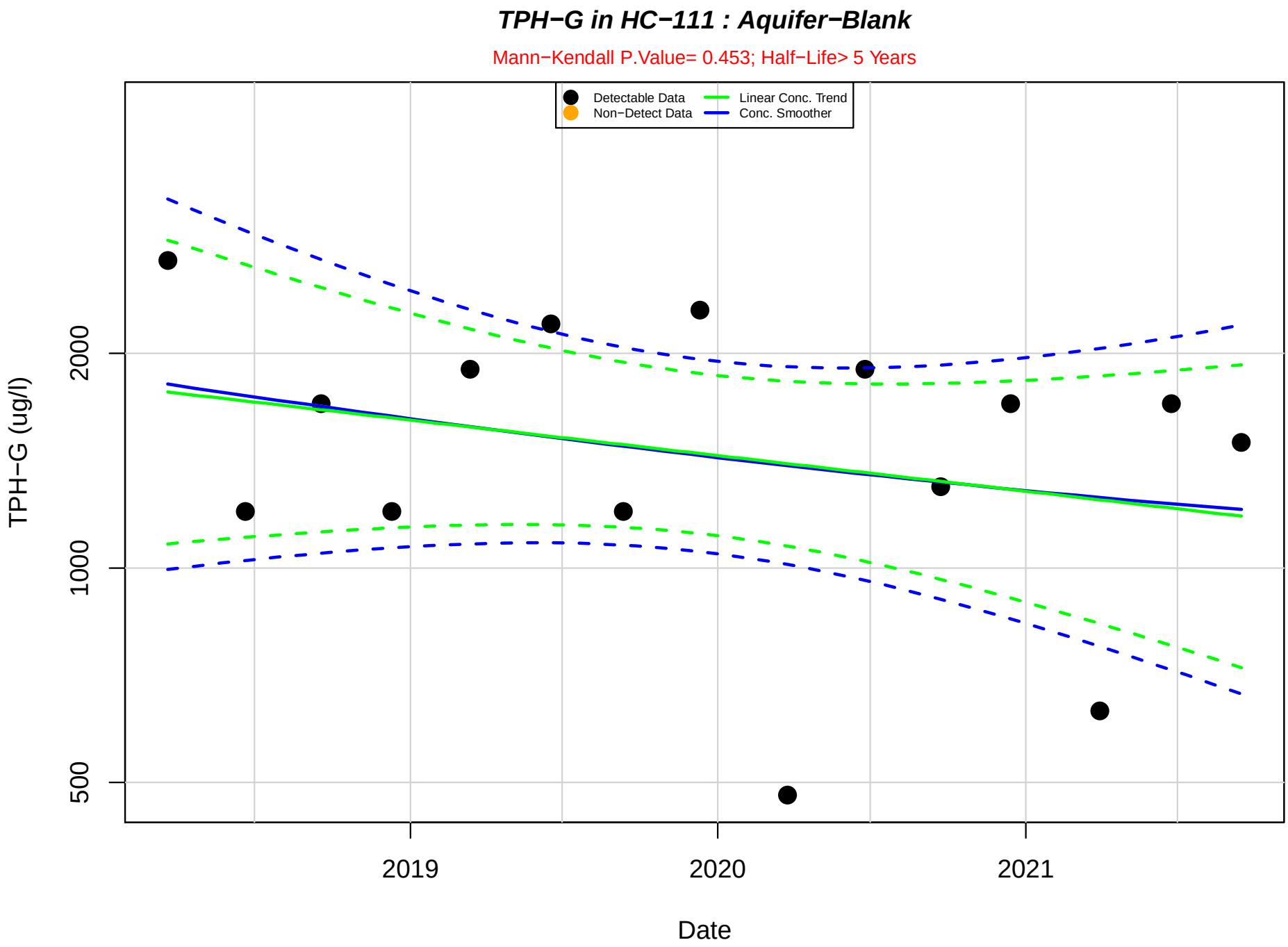

TPH−G in B−25 : Aquifer−Blank
Mann−Kendall P.Value= 0.294; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
5000
4000
3000
2000
2019
2020
2021
Date

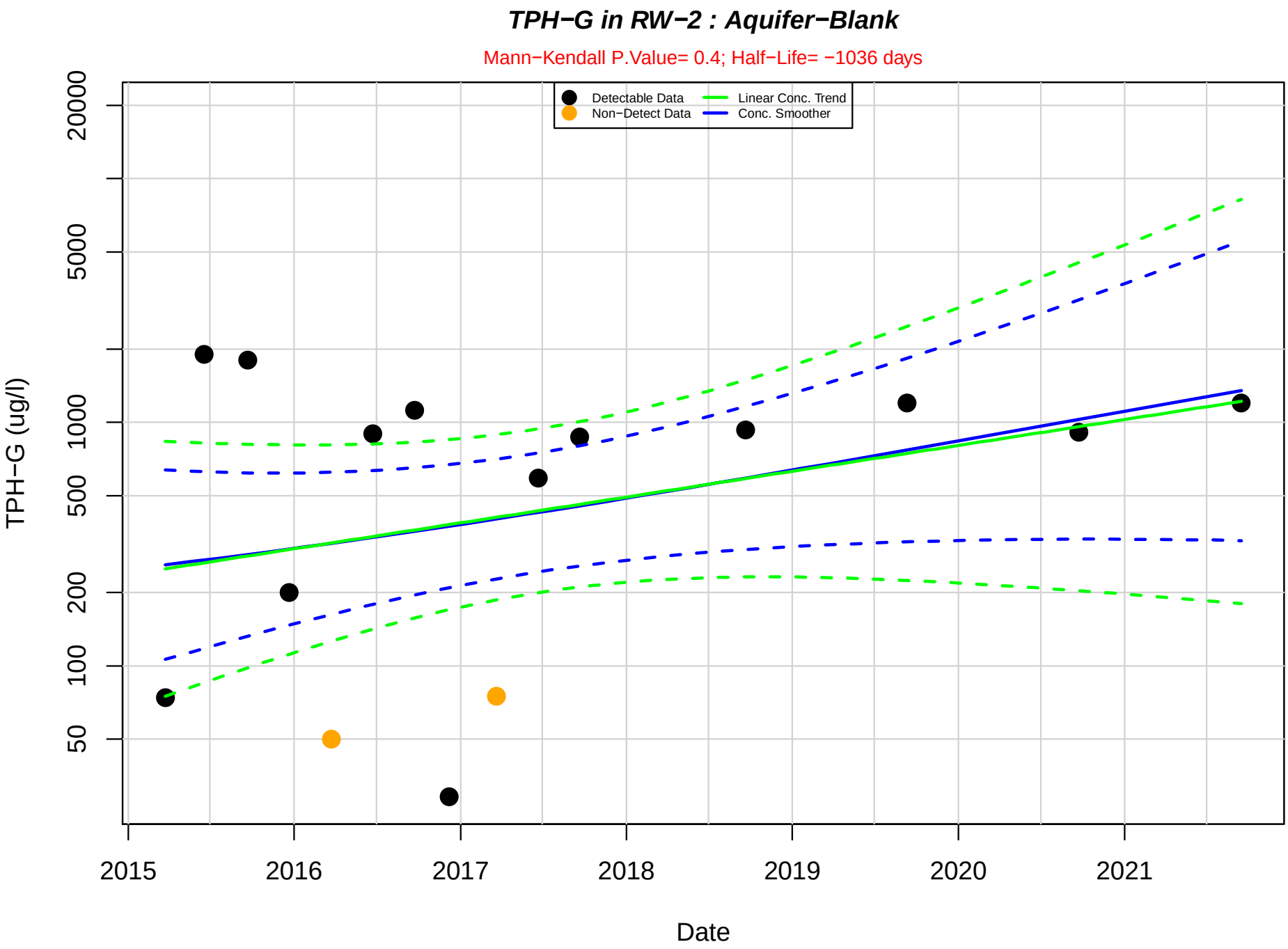

TPH−G in B−34 : Aquifer−Blank
Mann−Kendall P.Value= 0.921; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
3000
2500
2000
1500
2019
2020
2021
Date

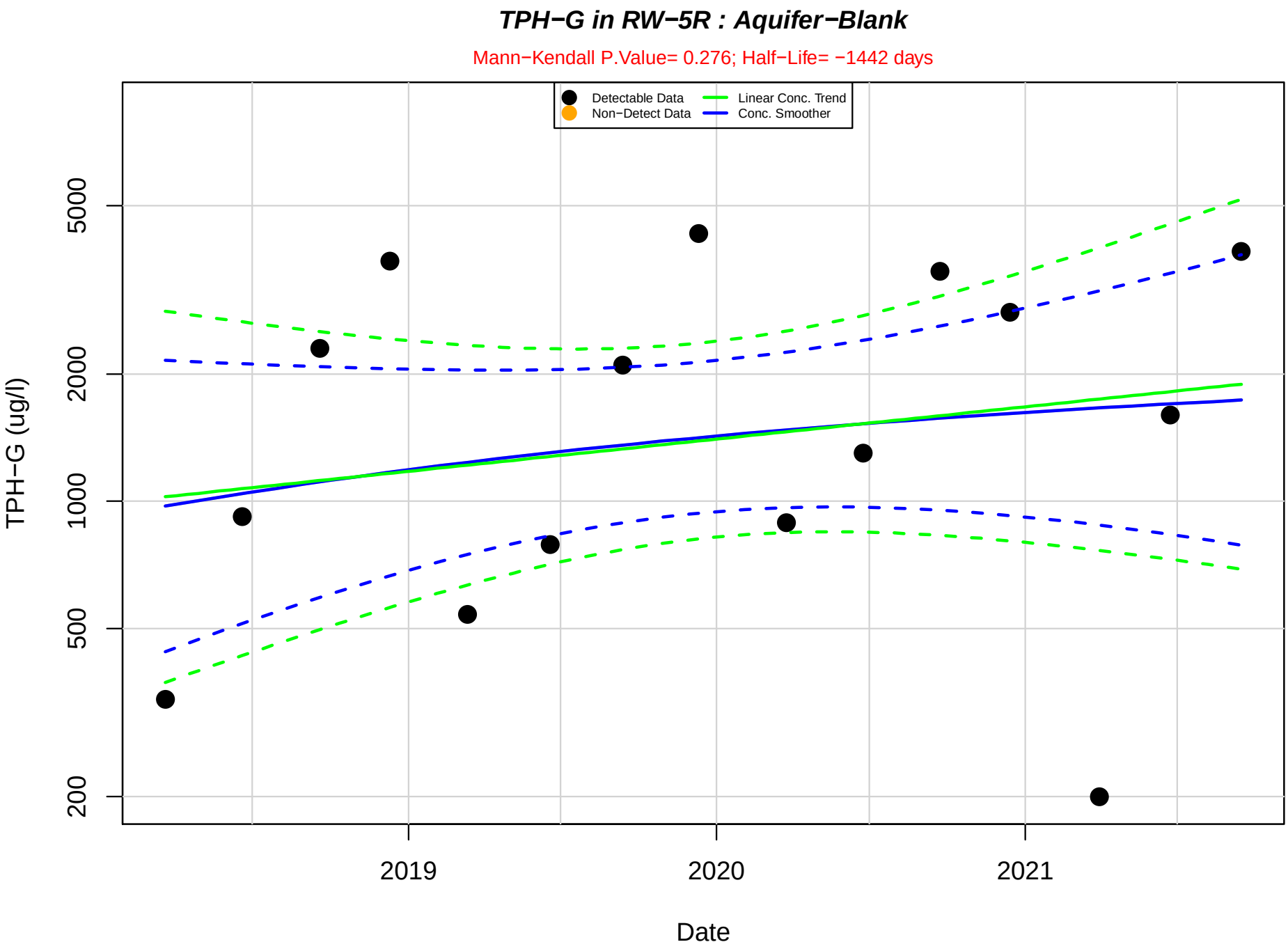

TPH−G in G−8 : Aquifer−Blank
Mann−Kendall P.Value= 0.17; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
2000
1000
500
200
100
2015
2016
2017
2018
2019
2020
2021
Date

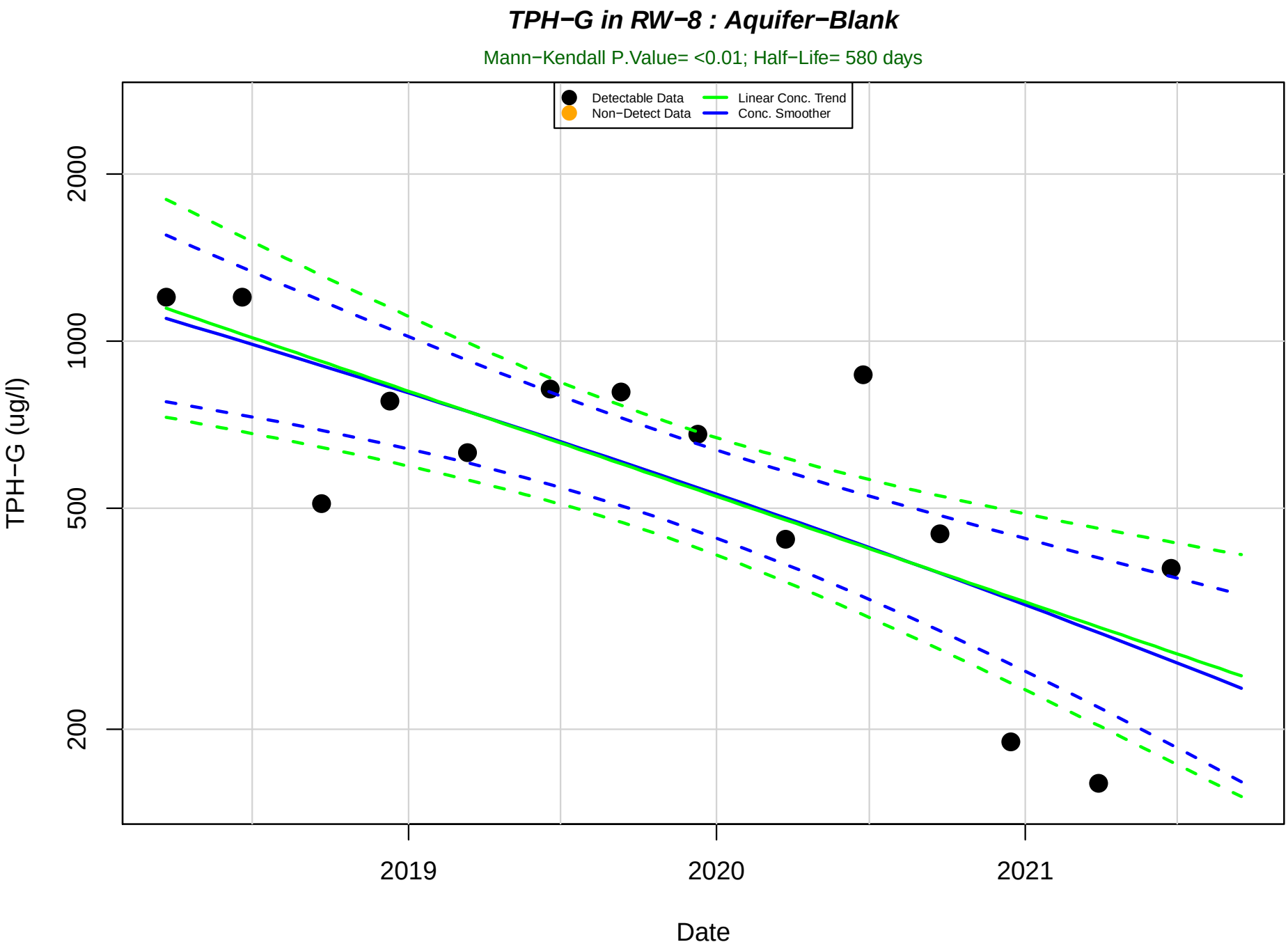

TPH−G in G−16 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
2010
2012
2014
2016
2018
2020
2022
Date

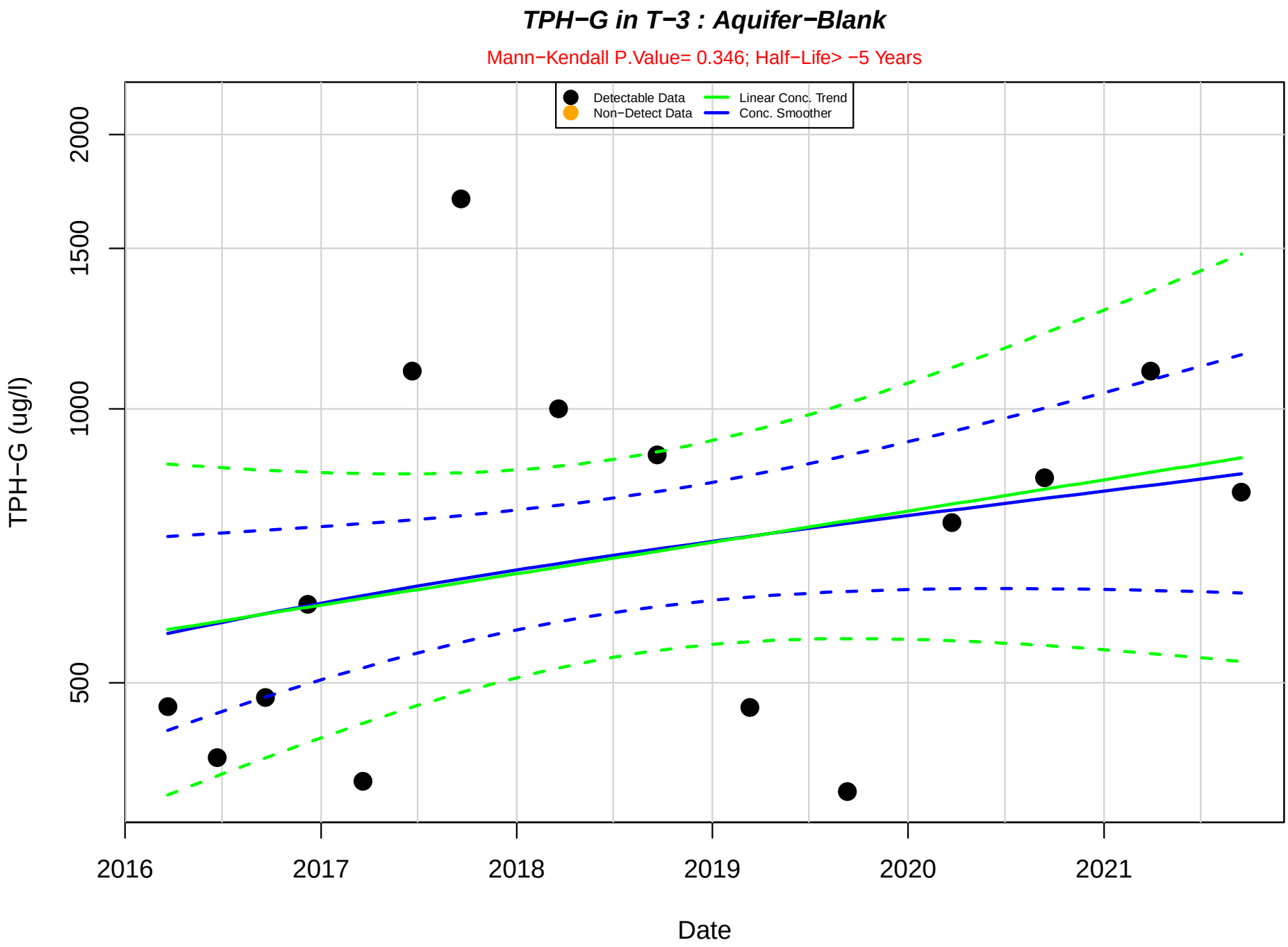

TPH−G in G−18 : Aquifer−Blank
Mann−Kendall P.Value= 0.842; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
200
100
50
2016
2017
2018
2019
2020
2021
Date

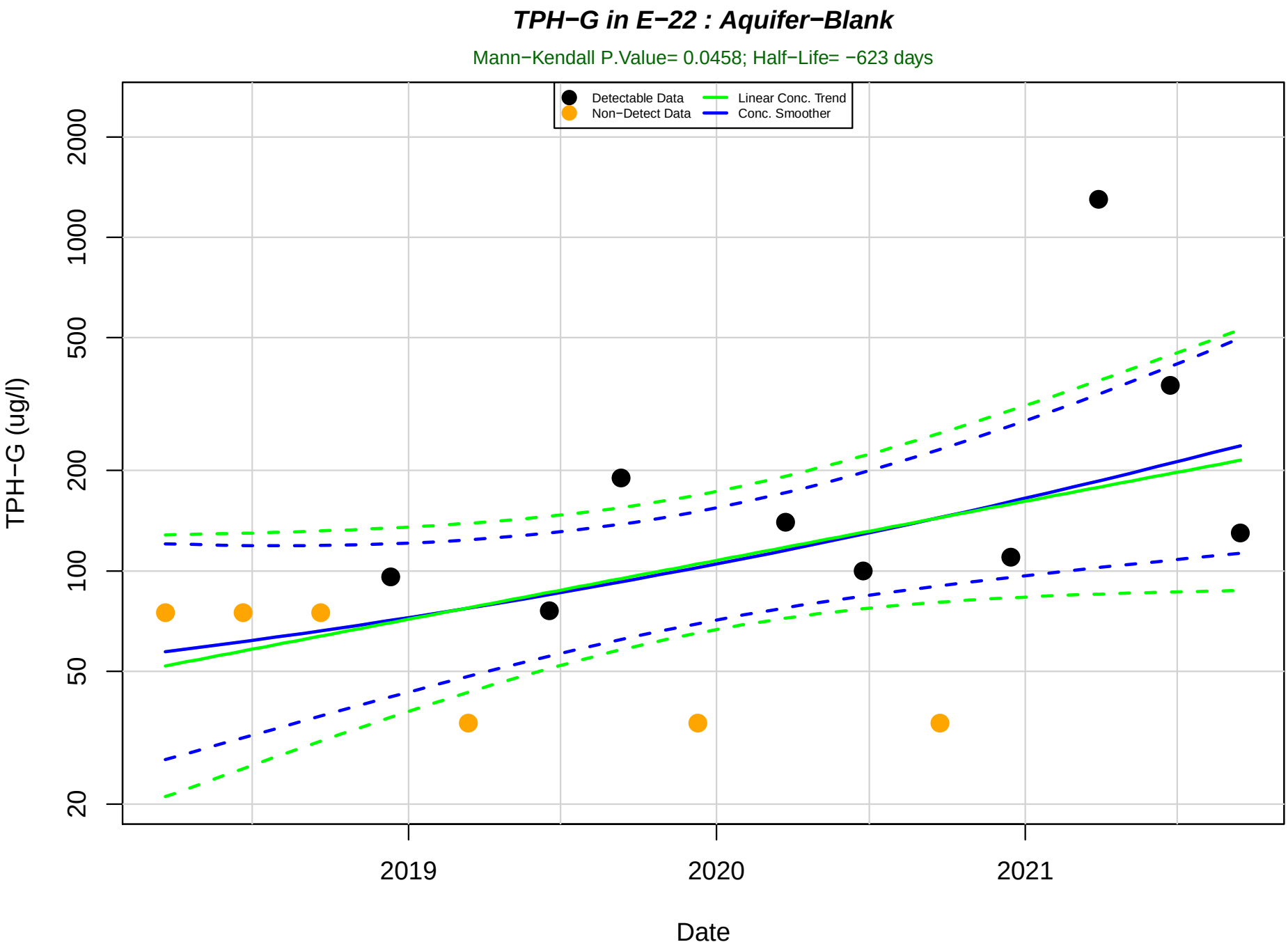

TPH−G in HC−111 : Aquifer−Blank
Mann−Kendall P.Value= 0.453; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
1000
2000
2019
2020
2021
Date

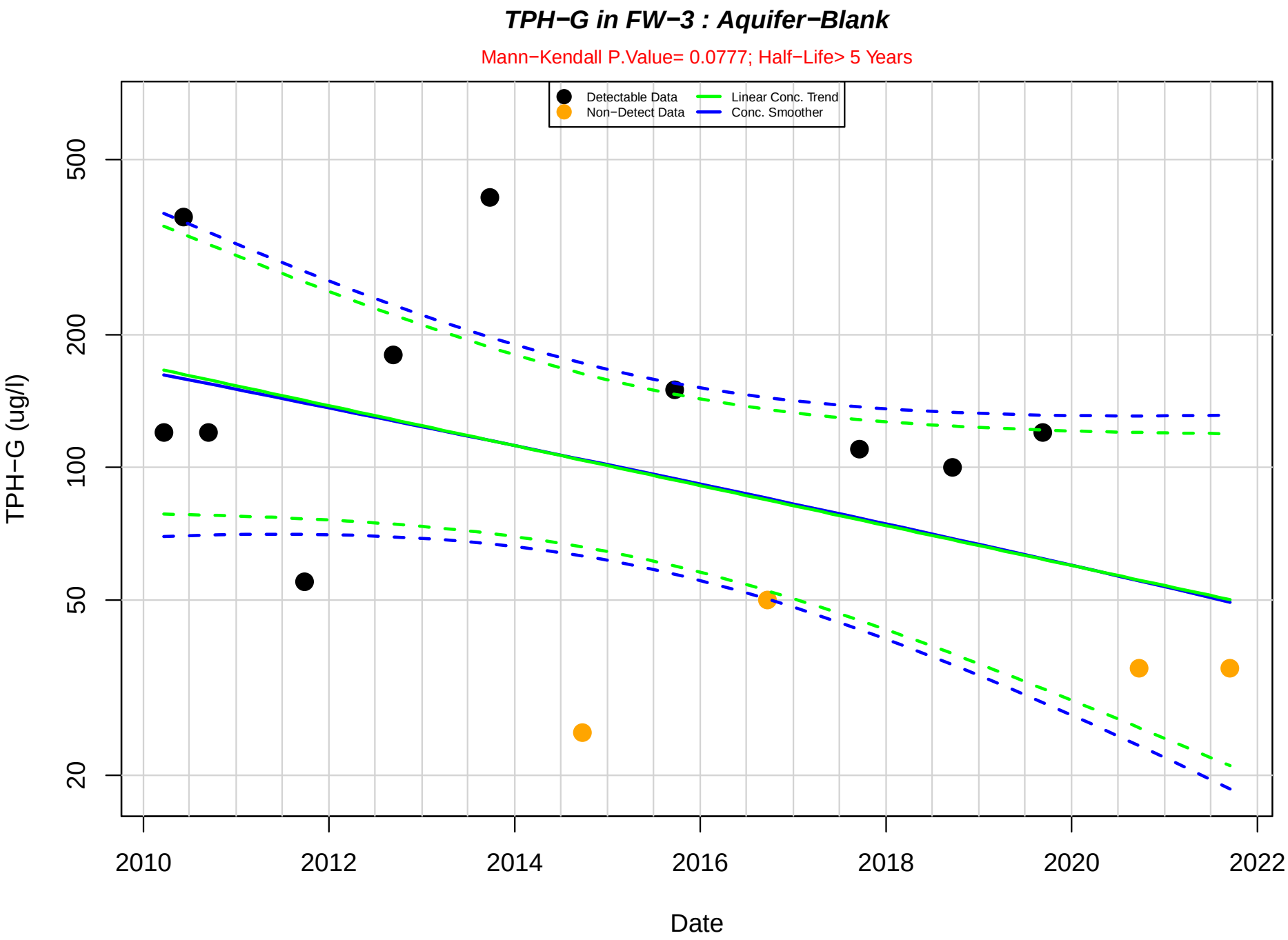

TPH−G in RW−2 : Aquifer−Blank
Mann−Kendall P.Value= 0.4; Half−Life= −1036 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
20000
5000
1000
500
200
100
50
2015
2016
2017
2018
2019
2020
2021
Date

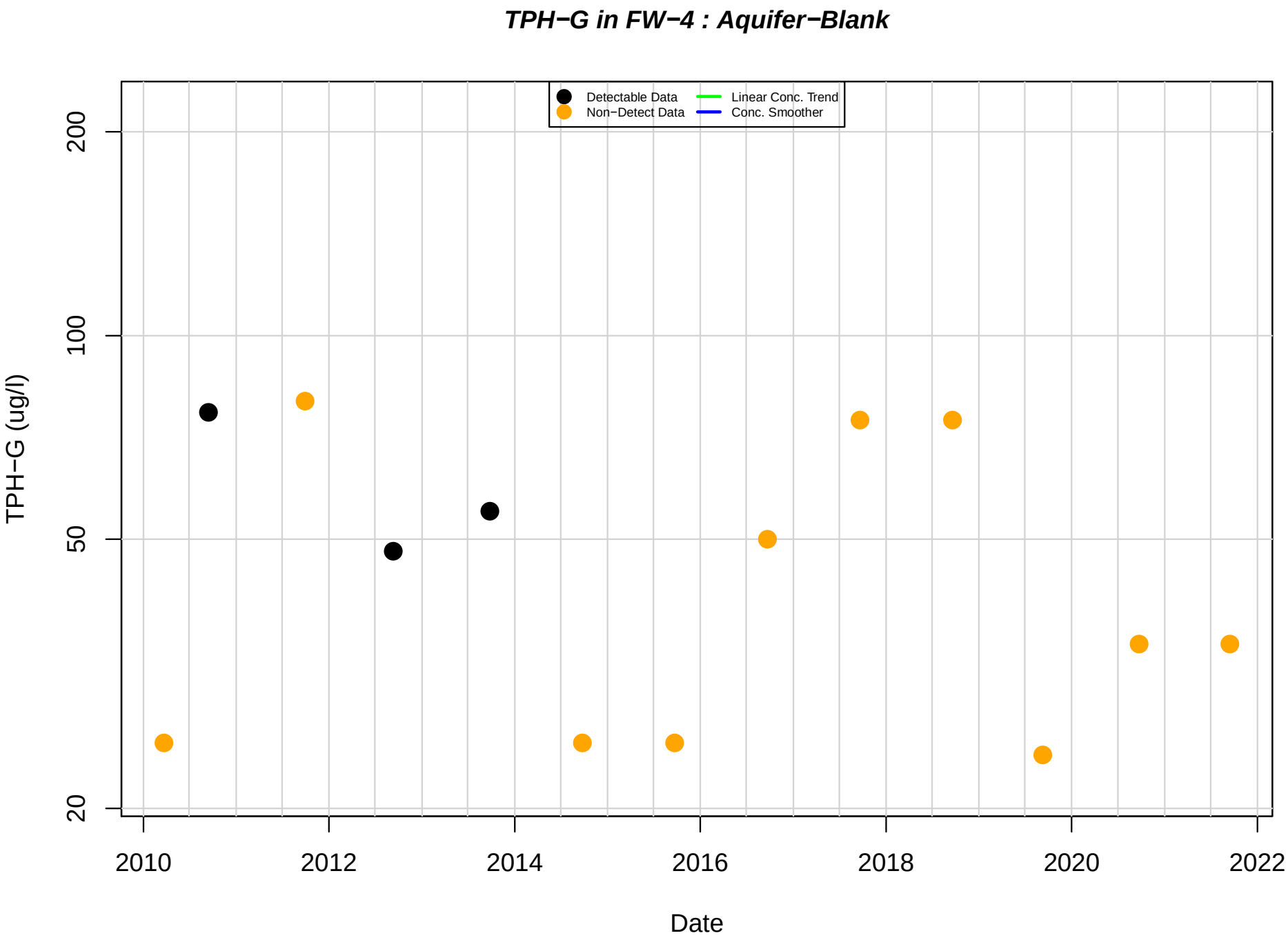

TPH−G in RW−5R : Aquifer−Blank
Mann−Kendall P.Value= 0.276; Half−Life= −1442 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
5000
2000
1000
500
200
2019
2020
2021
Date

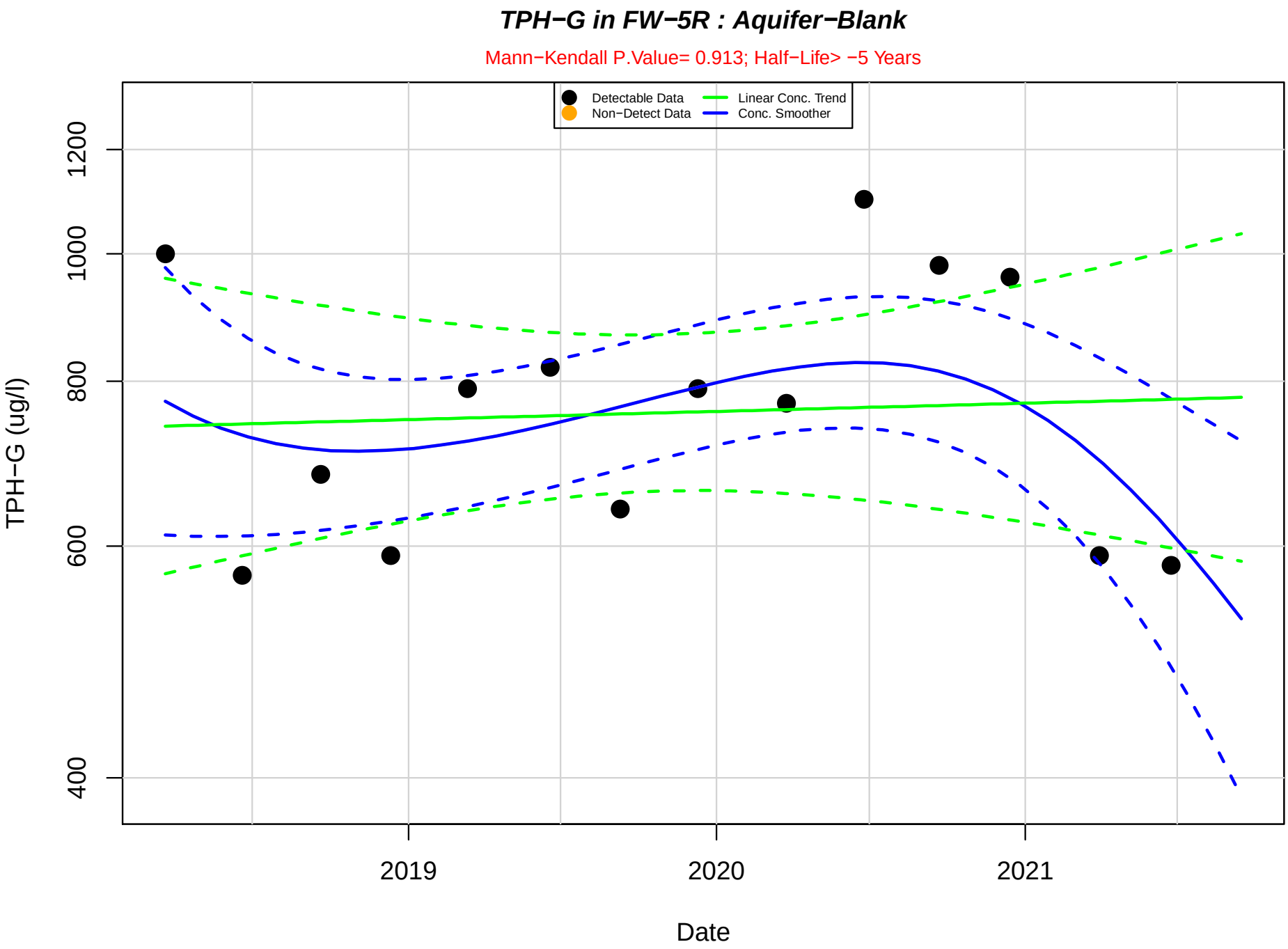

TPH−G in RW−8 : Aquifer−Blank
Mann−Kendall P.Value= <0.01; Half−Life= 580 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
2000
1000
500
200
2019
2020
2021
Date

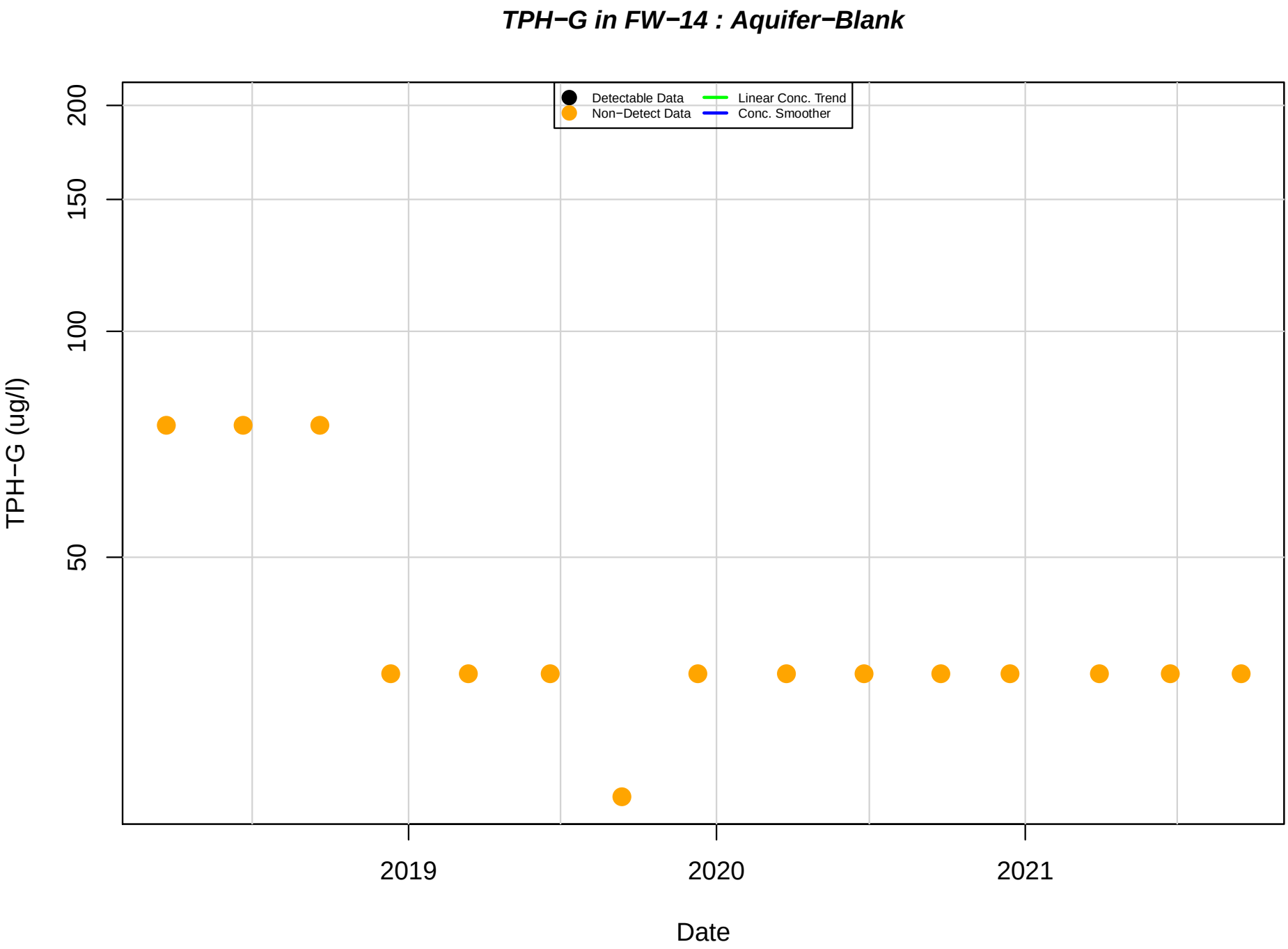

TPH−G in T−3 : Aquifer−Blank
Mann−Kendall P.Value= 0.346; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
1000
1500
2000
2016
2017
2018
2019
2020
2021
Date

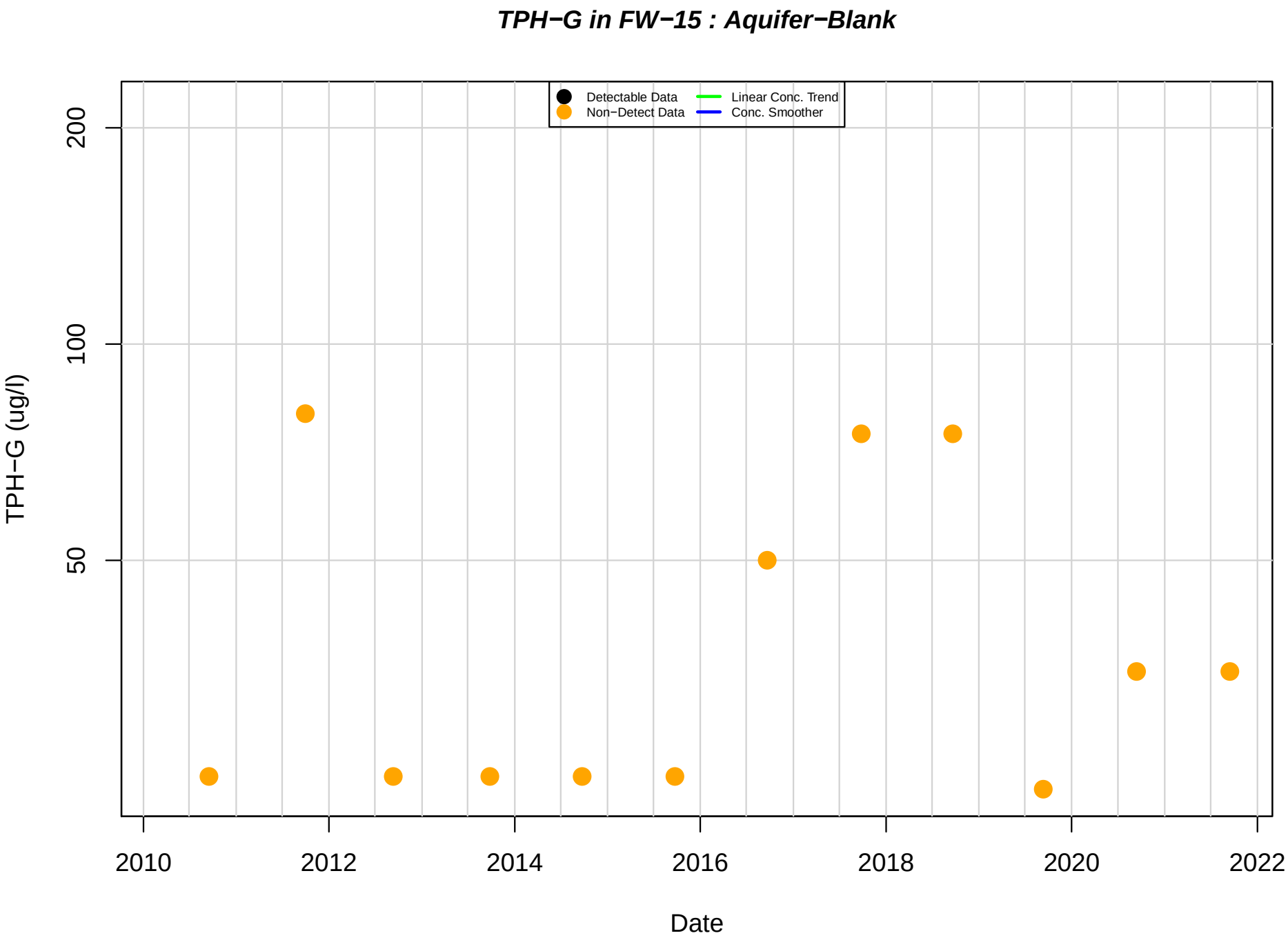

TPH−G in E−22 : Aquifer−Blank
Mann−Kendall P.Value= 0.0458; Half−Life= −623 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
20
50
100
200
500
1000
2000
2019
2020
2021
Date

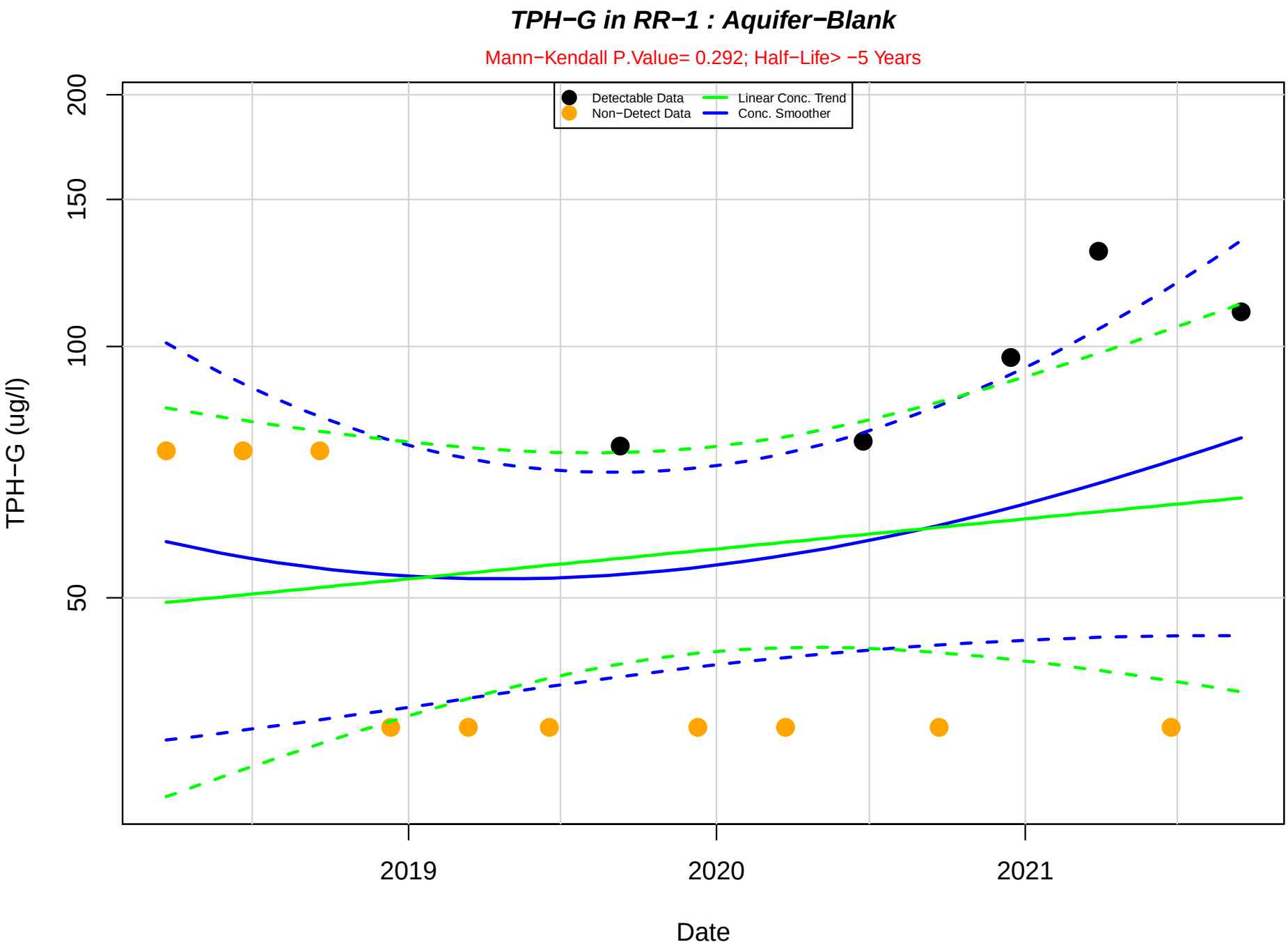

TPH−G in FW−3 : Aquifer−Blank
Mann−Kendall P.Value= 0.0777; Half−Life> 5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
200
100
50
20
2010
2012
2014
2016
2018
2020
2022
Date

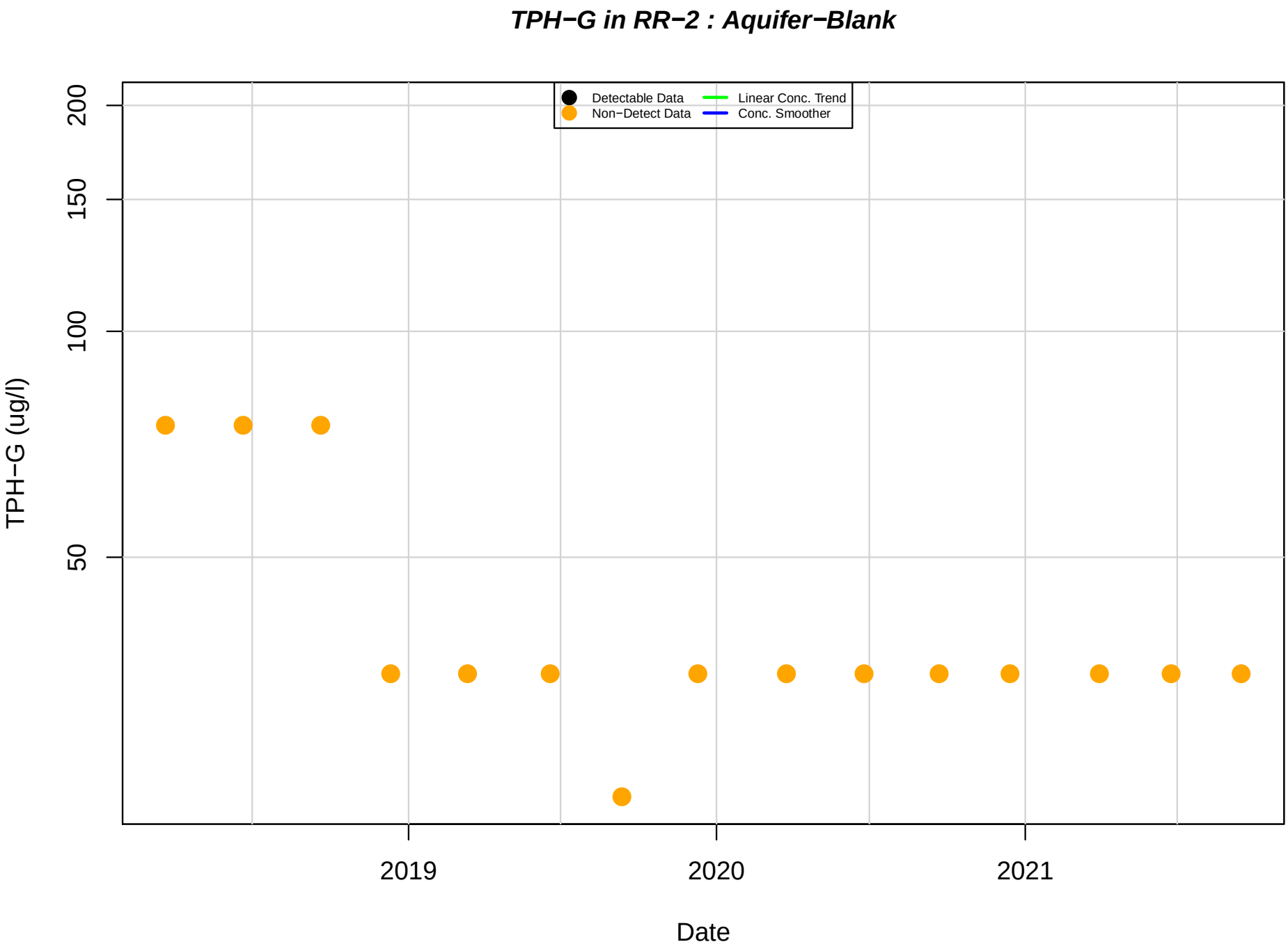

TPH−G in FW−4 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
20
2010
2012
2014
2016
2018
2020
2022
Date

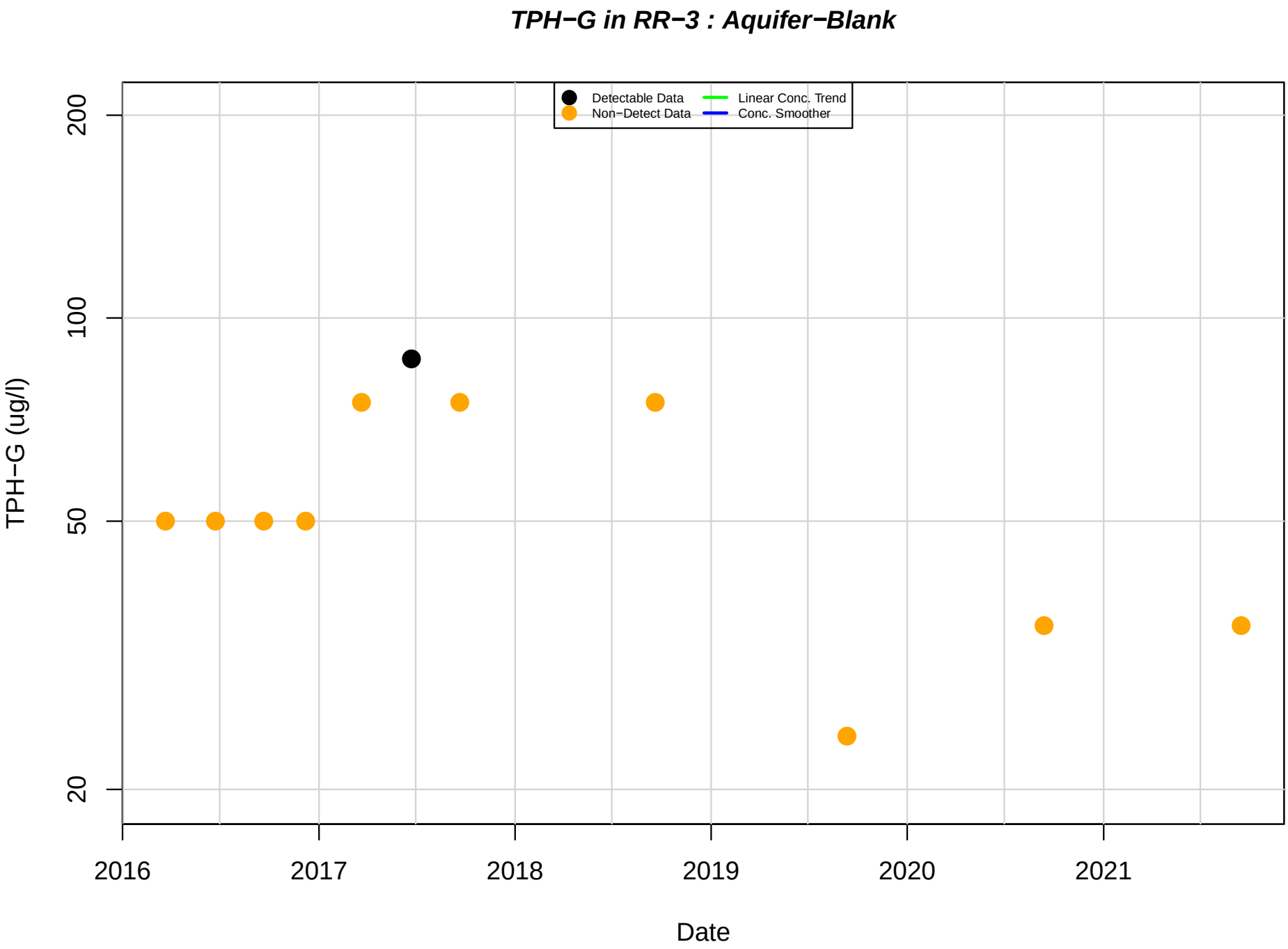

TPH−G in FW−5R : Aquifer−Blank
Mann−Kendall P.Value= 0.913; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
400
600
800
1000
1200
2019
2020
2021
Date

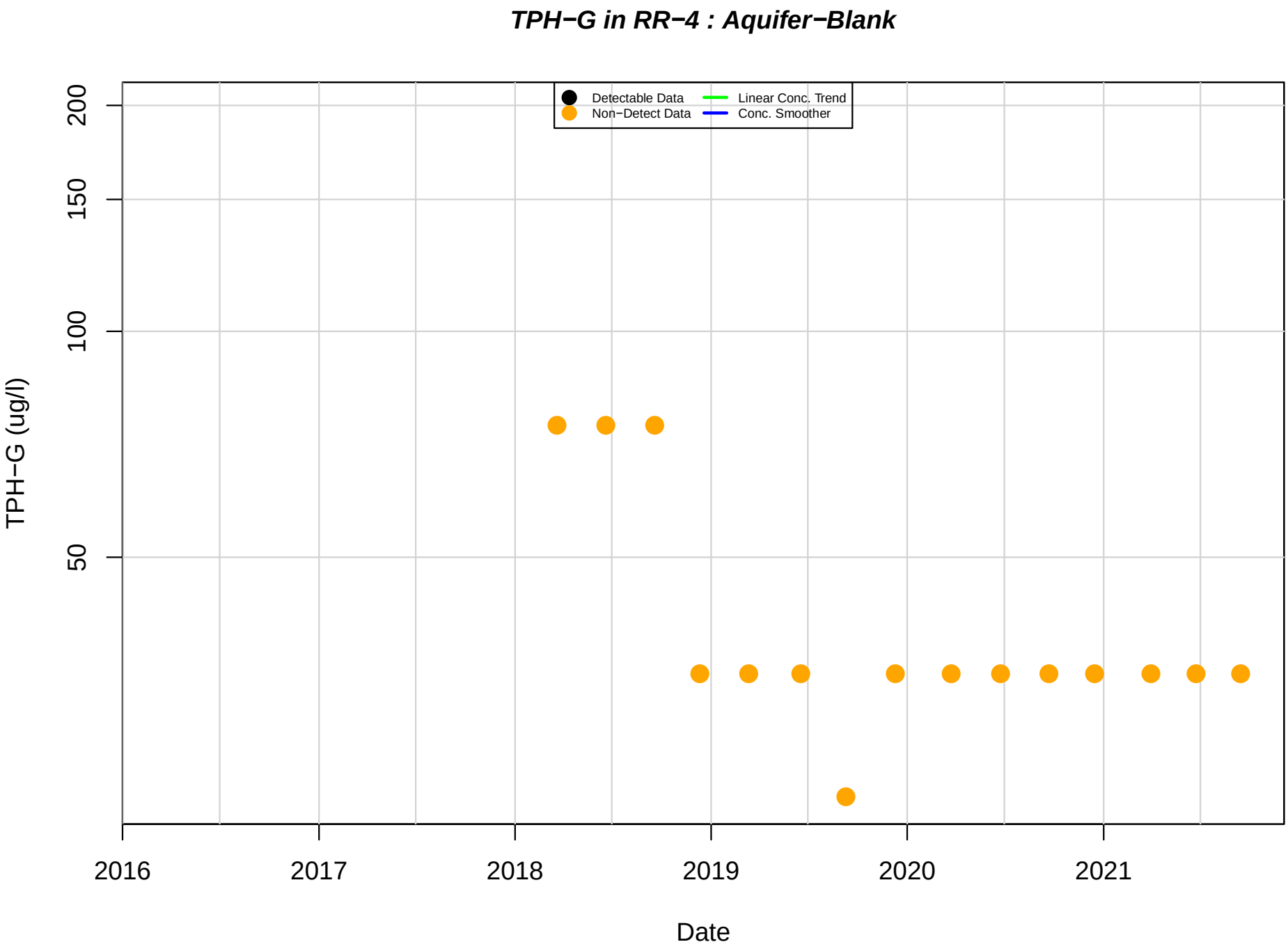

TPH−G in FW−14 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
150
100
50
2019
2020
2021
Date

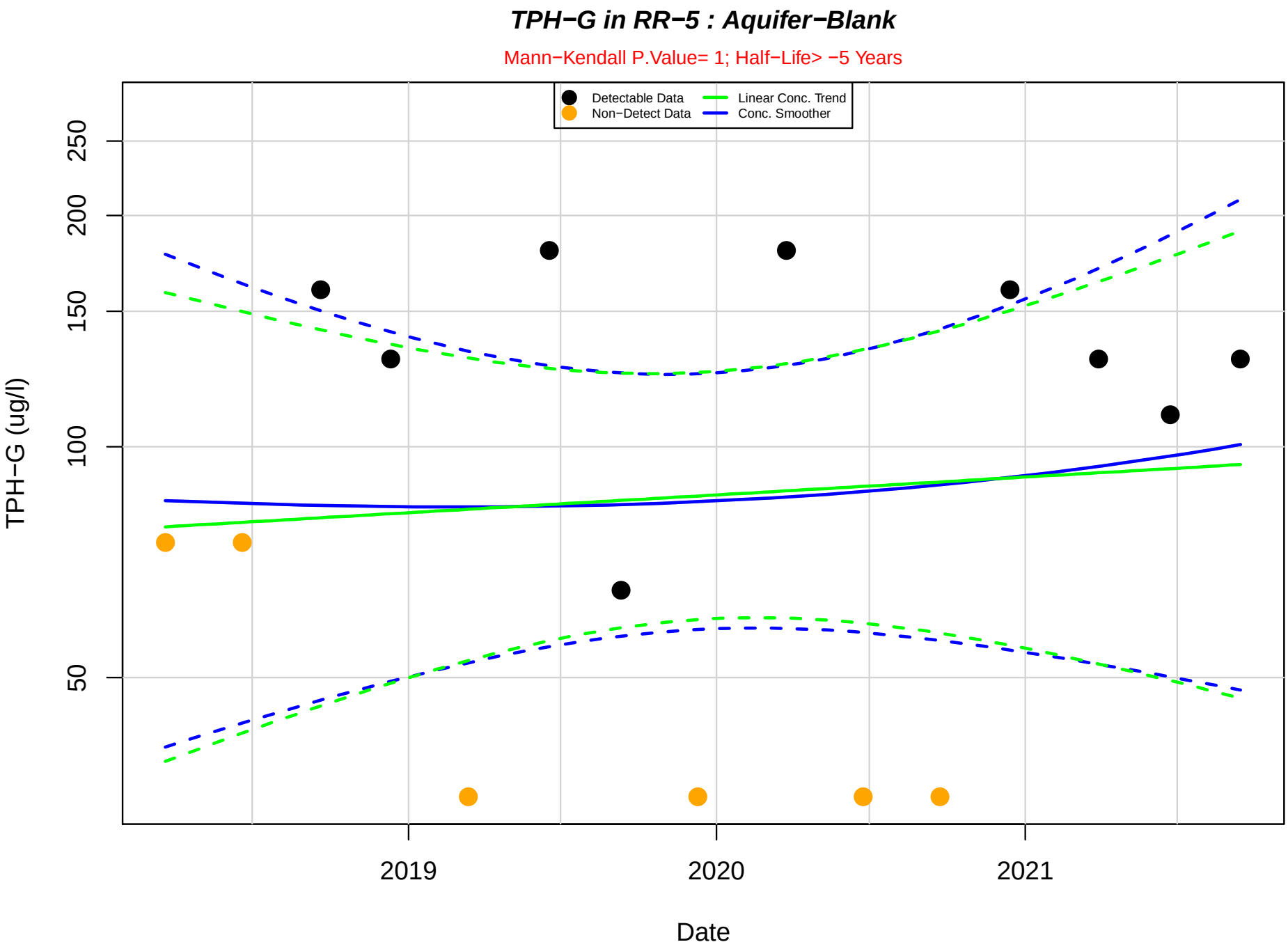

TPH−G in FW−15 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
2010
2012
2014
2016
2018
2020
2022
Date

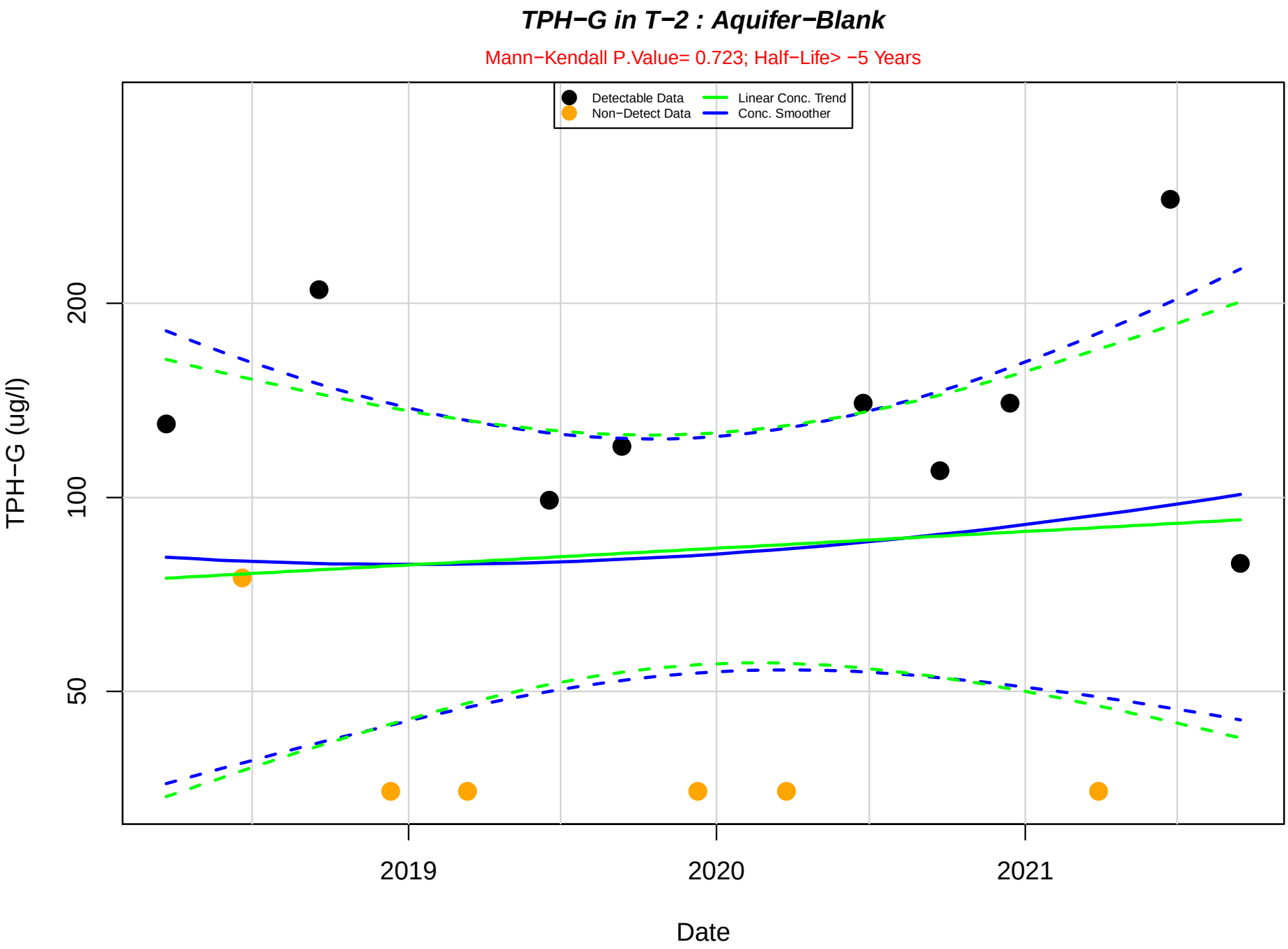

TPH−G in RR−1 : Aquifer−Blank
Mann−Kendall P.Value= 0.292; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
150
100
50
2019
2020
2021
Date

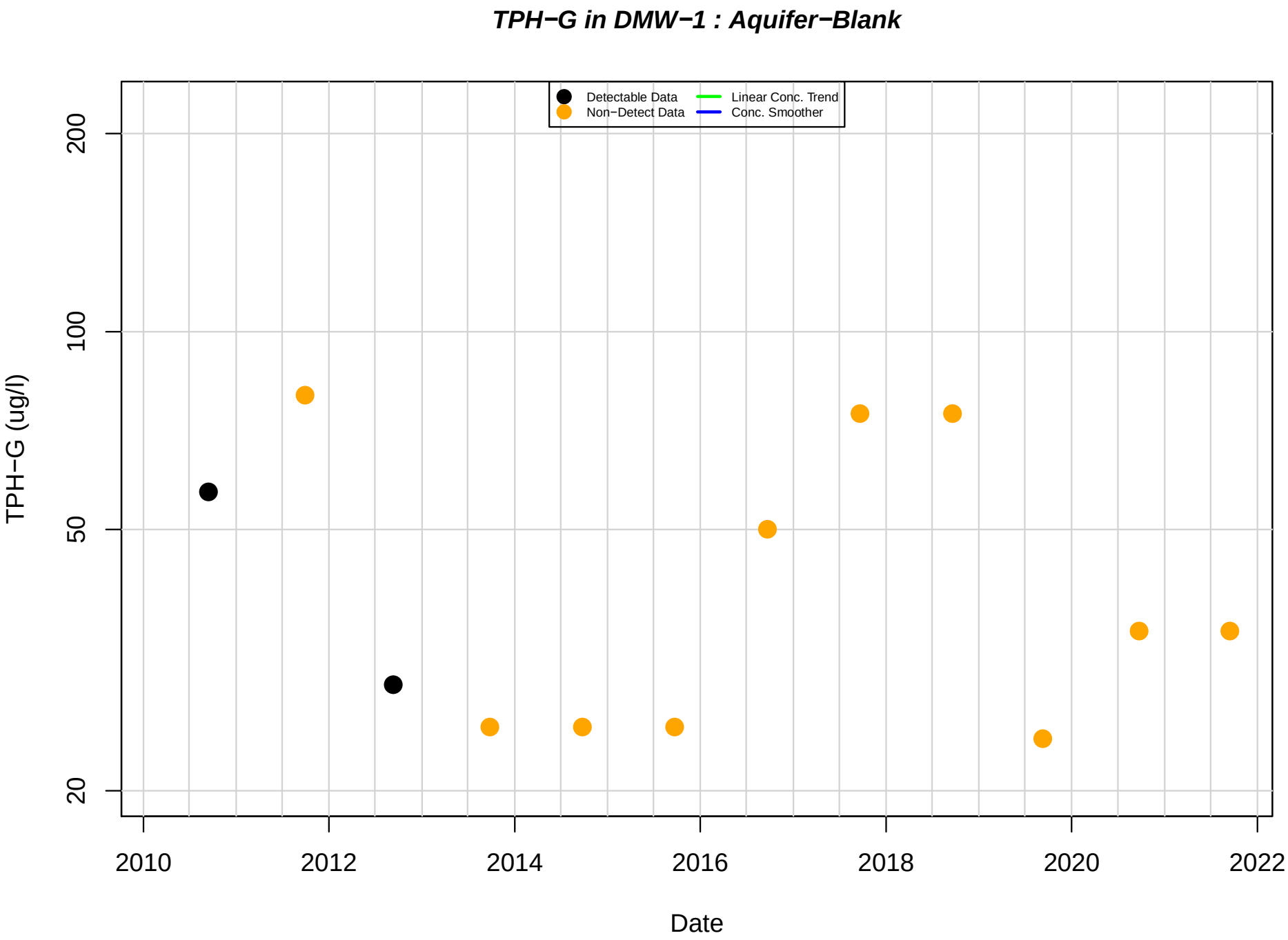

TPH−G in RR−2 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
150
100
50
2019
2020
2021
Date

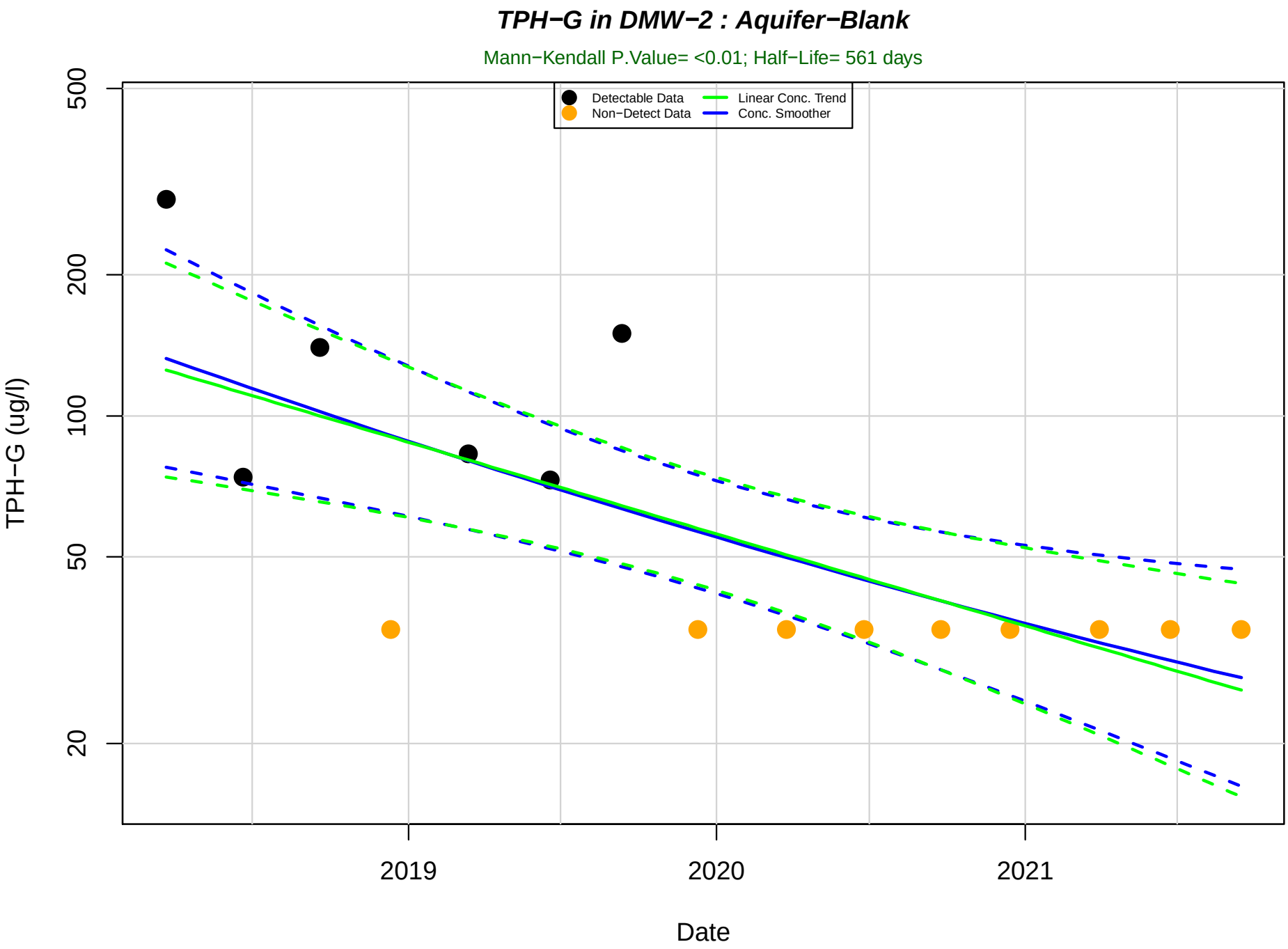

TPH−G in RR−3 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
20
2016
2017
2018
2019
2020
2021
Date

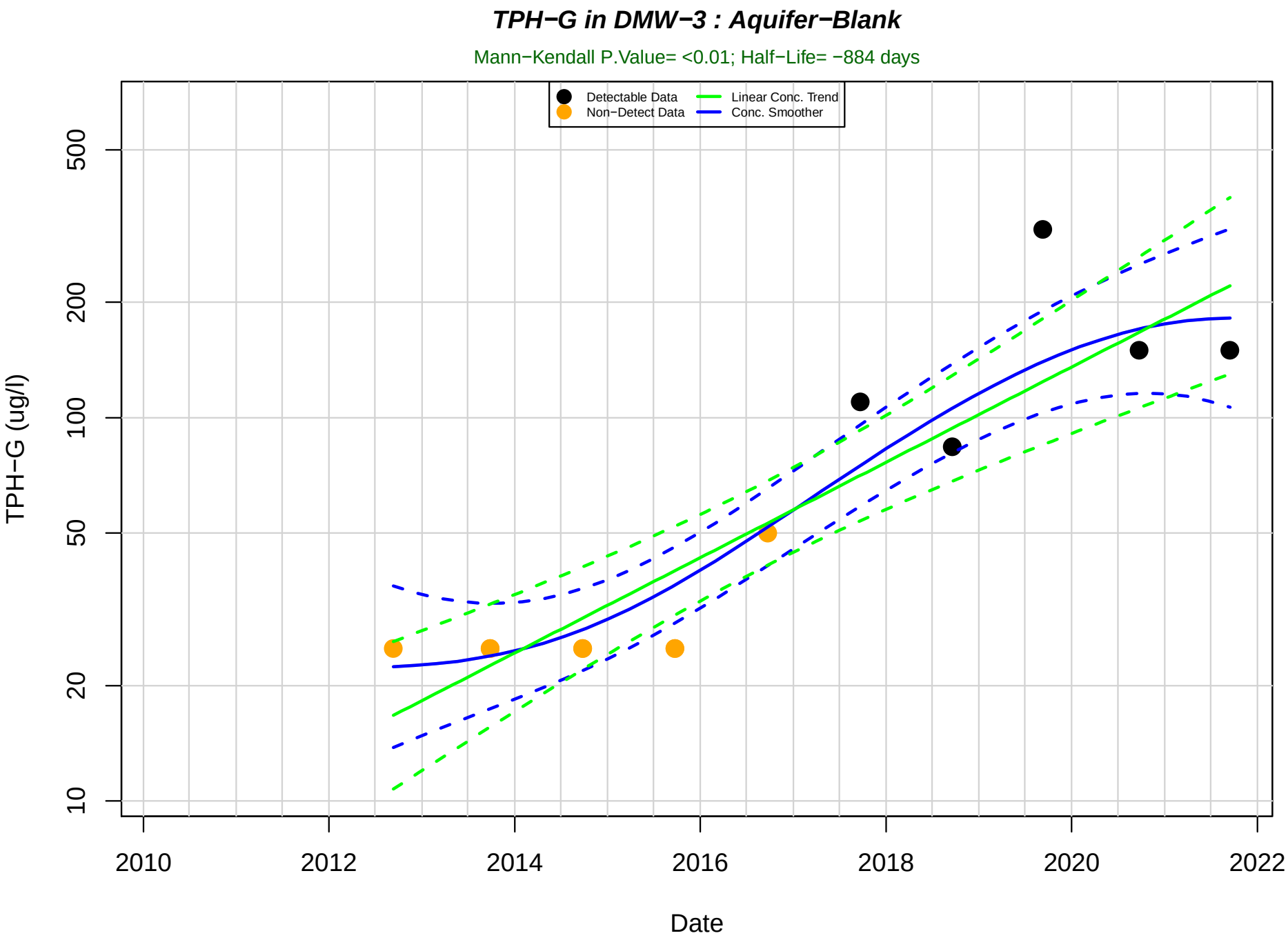

TPH−G in RR−4 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
150
100
50
2016
2017
2018
2019
2020
2021
Date

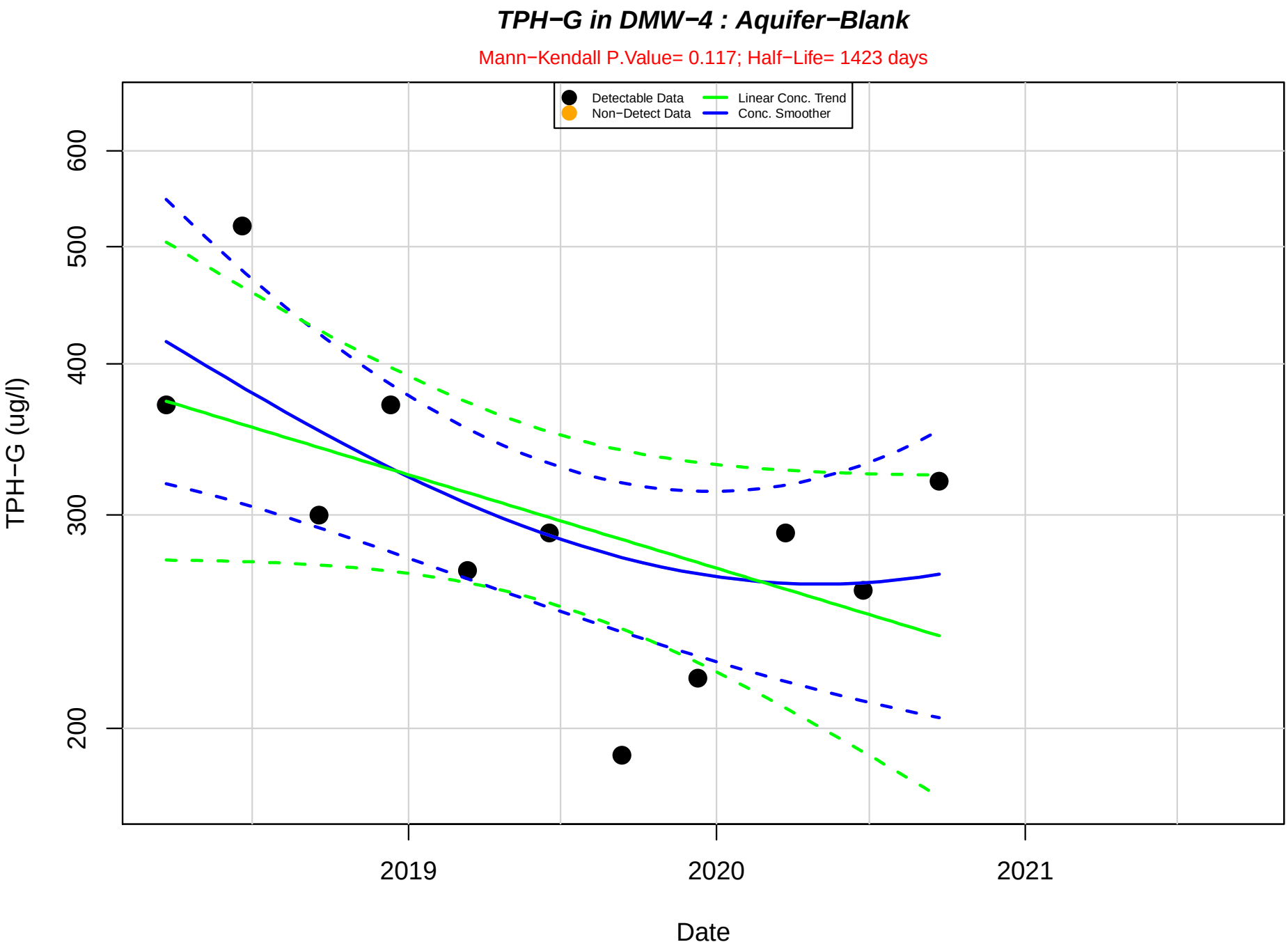

TPH−G in RR−5 : Aquifer−Blank
Mann−Kendall P.Value= 1; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
250
200
150
100
50
2019
2020
2021
Date

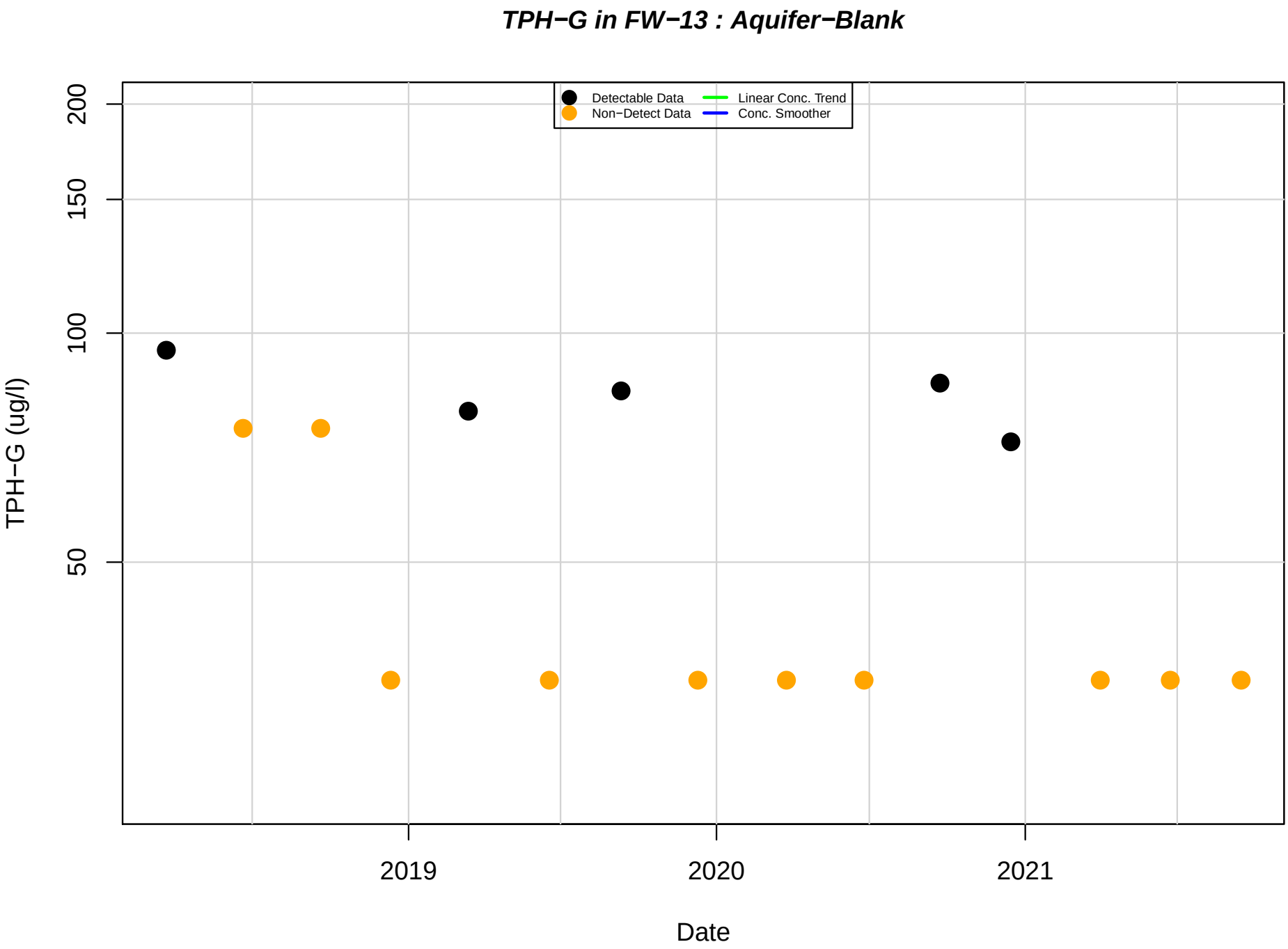

TPH−G in T−2 : Aquifer−Blank
Mann−Kendall P.Value= 0.723; Half−Life> −5 Years
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
2019
2020
2021
Date


TPH−G in DMW−1 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
100
50
20
2010
2012
2014
2016
2018
2020
2022
Date


TPH−G in DMW−2 : Aquifer−Blank
Mann−Kendall P.Value= <0.01; Half−Life= 561 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
500
200
100
50
20
2019
2020
2021
Date


TPH−G in DMW−3 : Aquifer−Blank
Mann−Kendall P.Value= <0.01; Half−Life= −884 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
10
20
50
100
200
500
2010
2012
2014
2016
2018
2020
2022
Date


TPH−G in DMW−4 : Aquifer−Blank
Mann−Kendall P.Value= 0.117; Half−Life= 1423 days
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
600
500
400
300
200
2019
2020
2021
Date


TPH−G in FW−13 : Aquifer−Blank
Detectable Data
Non−Detect Data
Linear Conc. Trend
Conc. Smoother
TPH−G (ug/l)
200
150
100
50
2019
2020
2021
Date

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	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	1.60	NA	NA	-12.24	-14.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Date when the Criterion to be achieved	date	7/13/18	NA	NA	9/14/04	2/26/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A.2 Boundary (@85% CL)																	
Time to reach the criterion[2]	yr	1.84	NA	NA	-15.05	-21.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Date when the Criterion to be achieved	date	10/9/18	NA	NA	11/23/01	6/16/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B Date of Prediction?	date	7/22/20	7/22/20	7/22/20													
B.1 Average conc predicted (@50% CL)	ug/L	54.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B.2 Boundary conc predicted (@85% CL)	ug/L	70.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

3. Log-Linear Regression Results

Coefficient of Determination	r^2	0.786	0.034	0.014	0.644	0.682	0.030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Correlation Coefficient	r	-0.887	-0.184	0.117	-0.802	-0.826	-0.172	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Number of data points	n	20	12	20	20	8	19	NA	NA	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, %	100.000%	43.353%	37.609%	99.998%	98.847%	51.953%	NA	NA	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!**	**NO!**	YES!	YES!	**NO!**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coefficient of Variation?	NA	0.657	0.650	NA	NA	0.991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Plume Stability?	Shrinking	Stable	Stable	Shrinking	Shrinking	Stable	NA	NA	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}	0.528	0.084	0.122	0.375	0.312	0.102	NA	NA	NA	NA	NA	NA	NA	NA	NA
	@85% CL	yr^{-1}	0.459	NA	NA	0.305	0.215	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Half Life for (k_{point})	@50% CL	yr	1.313	8.227	5.663	1.847	2.221	6.763	NA	NA	NA	NA	NA	NA	NA	NA	NA
	@85% CL	yr	1.511	NA	NA	2.271	3.228	NA	NA	NA	NA	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.)